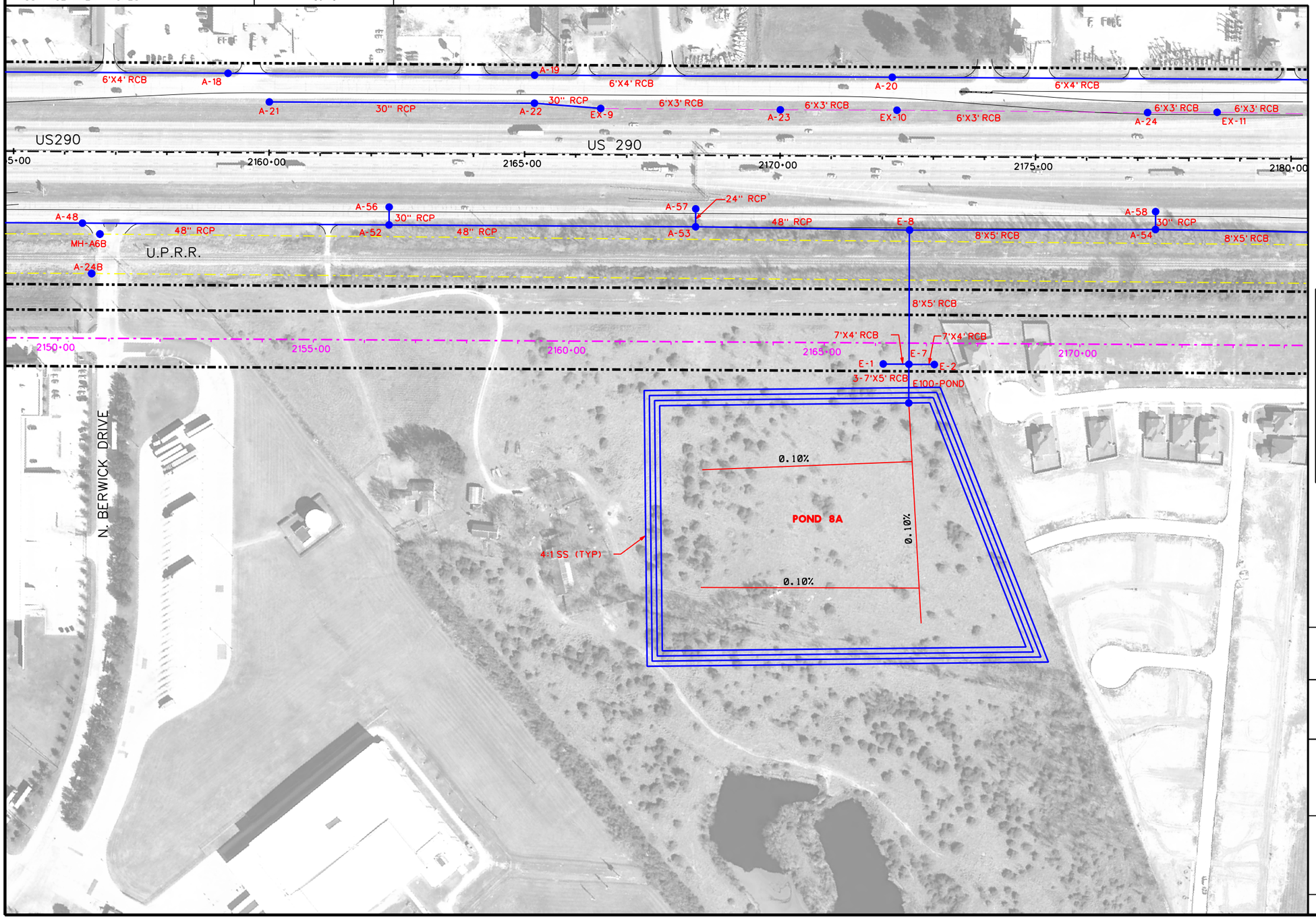
DETENTION BASIN	POND 8A
DESIGN STORAGE PROVIDED (ACRE-FT)	46.02
EST. STORAGE REQ'D (ACRE-FT)	42.85
MAX. PONDING ELEVATION (FT)	131.81
INFLOW/OUTFLOW PIPE SIZE	3-7'x5' RCB
MAX DISCHARGE (CFS)	-421.32
TOB ELEVATION (FT)	132.00
MIN. BASIN ELEVATION	124.74
SURFACE AREA (ACRES)	8.46



LEGEND

- PROPOSED PAVEMENT (FRTG. AND ML)
- EXIST. STM SWR/CULVERTS
- EXIST. CHANNEL/DITCH
- PROP. STM SWR
- INLET/MH (ANALYSIS NODE)
- POND 1 — PROPOSED DETENTION POND
- FLOW DIRECTION

0 100 200 400

SCALE (H) 1" = 200'

PRELIMINARY
SUBJECT TO CHANGE

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PROPOSED DETENTION POND

SHEET 1 OF 12

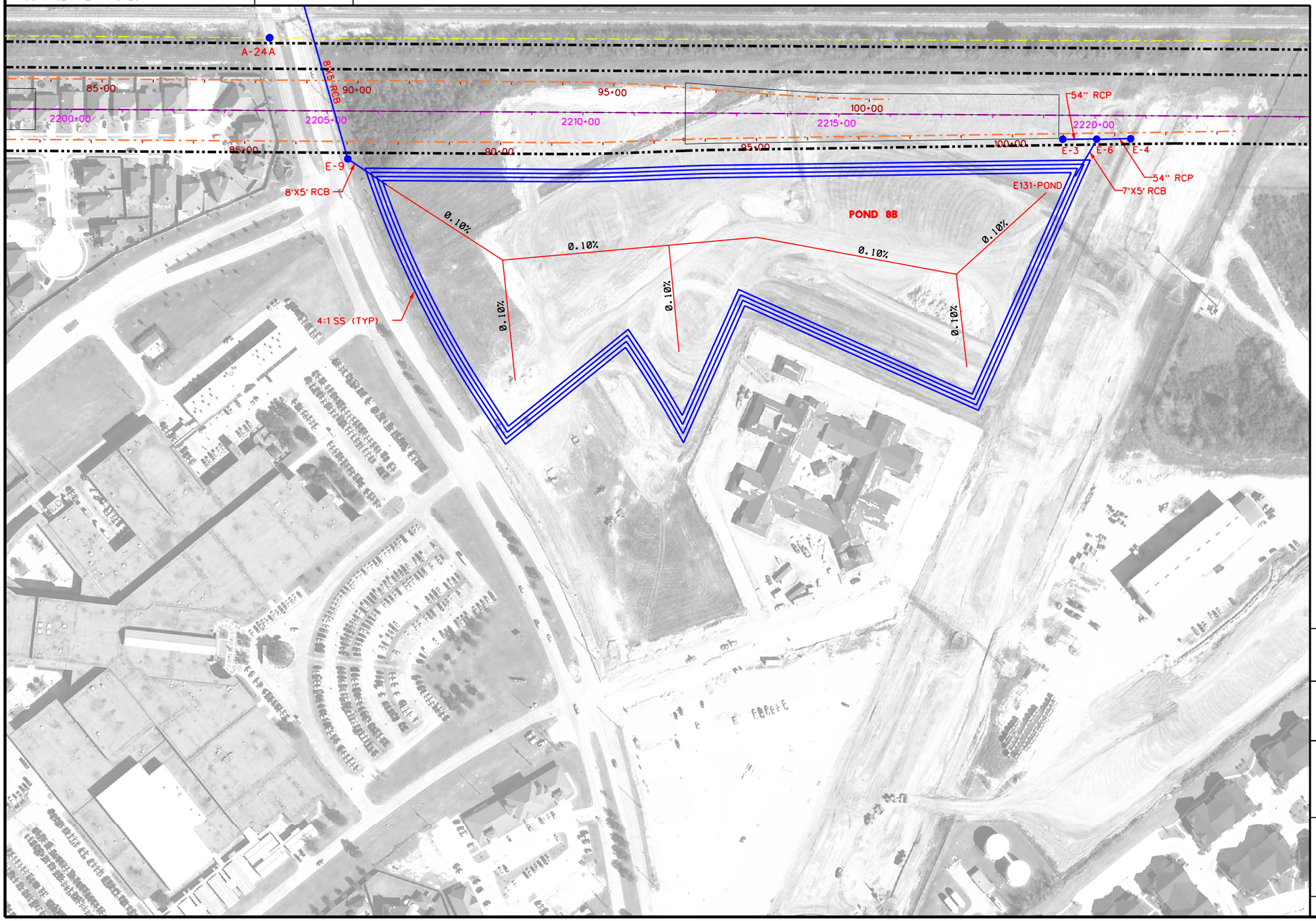
8/27/2009

EXHIBIT 9

...\DRA\US 290_Phase1_Det_1.dgn

DETENTION BASIN	POND 8B
DESIGN STORAGE PROVIDED (ACRE-FT)	37.60
EST. STORAGE REQ'D (ACRE-FT)	35.72*
MAX. PONDING ELEVATION (FT)	125.28
INFLOW/OUTFLOW PIPE SIZE	8'x5' RCB
MAX DISCHARGE (CFS)	-159.88
TOB ELEVATION (FT)	128.00
MIN. BASIN ELEVATION	121.18
SURFACE AREA (ACRES)	11.76

*INCLUDES ESTIMATED STORAGE FOR OUTFALL 2, OUTFALL 3, AND OUTFALL 4



LEGEND

- PROPOSED PAVEMENT (FRTG. AND ML)
- EXIST. STM SWR/CULVERTS
- EXIST. CHANNEL/DITCH
- PROP. STM SWR
- INLET/MH (ANALYSIS NODE)
- **POND 1** PROPOSED DETENTION POND
- FLOW DIRECTION

0 100 200 400
SCALE (H) 1" = 200'

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PROPOSED DETENTION POND

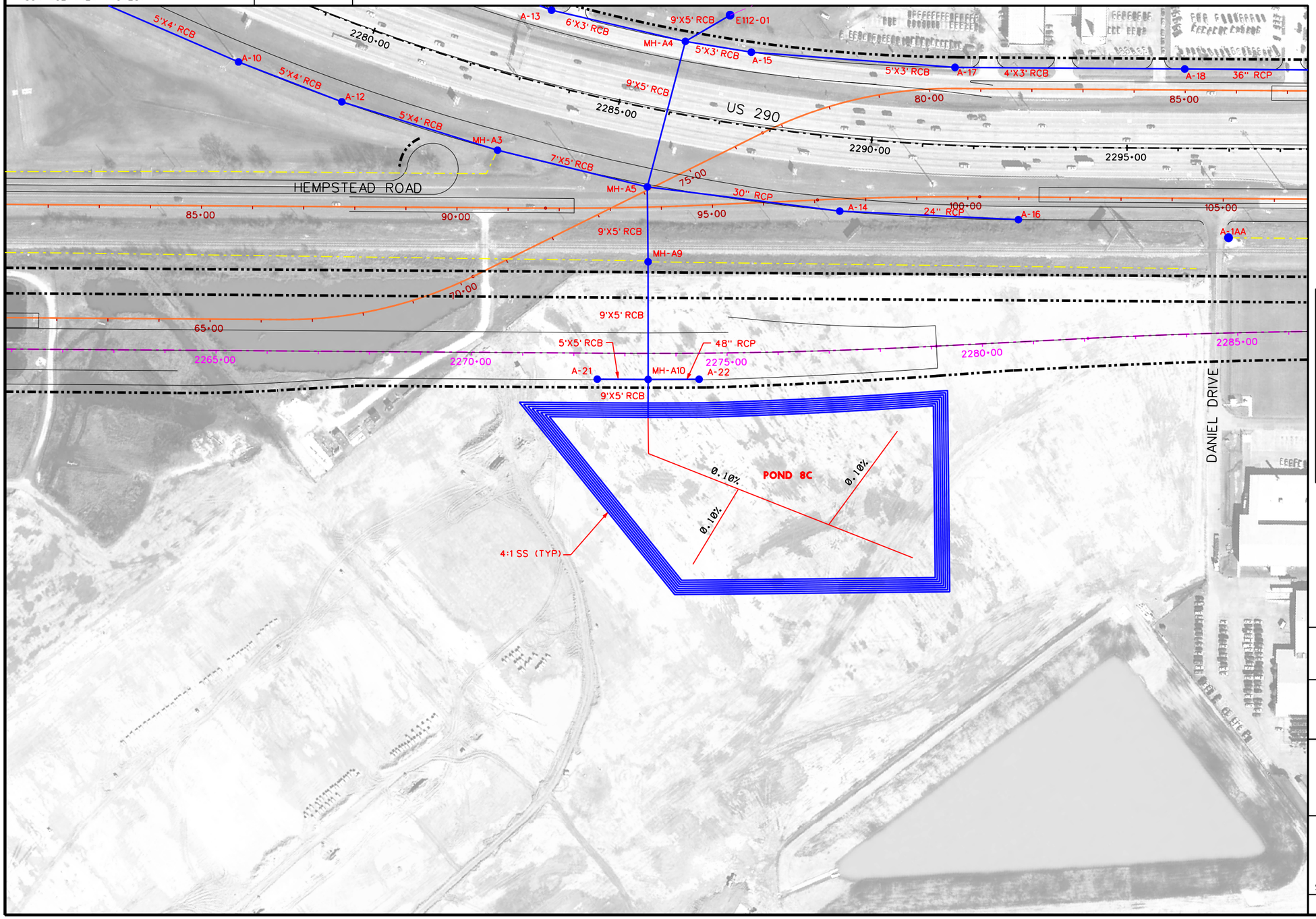
SHEET 2 OF 12

11/5/2009

EXHIBIT 9

...\DRA\US 290_Pinsell_Det_2.dgn

DETENTION BASIN	POND 8C
DESIGN STORAGE PROVIDED (ACRE-FT)	34.40
EST. STORAGE REQ'D (ACRE-FT)	40.75
MAX. PONDING ELEVATION (FT)	120.87
INFLOW/OUTFLOW PIPE SIZE	9'x5' RCB
MAX DISCHARGE (CFS)	-380.04
TOB ELEVATION (FT)	122.00
MIN. BASIN ELEVATION	113.32
SURFACE AREA (ACRES)	6.01



LEGEND

- PROPOSED PAVEMENT (FRTG. AND ML)
- EXIST. STM SWR/CULVERTS
- EXIST. CHANNEL/DITCH
- PROP. STM SWR
- INLET/MH (ANALYSIS NODE)
- POND 1 PROPOSED DETENTION POND
- FLOW DIRECTION

0 100 200 400

SCALE (H) 1" = 200'

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PROPOSED DETENTION POND

SHEET 3 OF 12

8/27/2009

EXHIBIT 9

...\DRA\US 290_Phase1_Det_3.dgn

DETENTION BASIN	POND 7A1	DETENTION BASIN	POND 7A2
DESIGN STORAGE PROVIDED (ACRE-FT)	30.37	DESIGN STORAGE PROVIDED (ACRE-FT)	115.40 #
EXT. STORAGE PROVIDED (ACRE-FT)	58.47	EST. STORAGE REQ'D (ACRE-FT)	37.76
MAX. PONDING ELEVATION (FT)	115.53	MAX. PONDING ELEVATION (FT)	115.46
INFLOW/OUTFLOW PIPE SIZE	24" RCP	INFLOW/OUTFLOW PIPE SIZE	24" RCP
MAX DISCHARGE (CFS)	16.98	MAX DISCHARGE (CFS)	17.19
TOB ELEVATION (FT)	115.00	TOB ELEVATION (FT)	115.00
MIN. BASIN ELEVATION	107.00	MIN. BASIN ELEVATION	107.00
SURFACE AREA (ACRES)	4.39	SURFACE AREA (ACRES)	15.94

STORAGE PROVIDED INCLUDES MITIGATION FOR OUTFALL 6, A PORTION OF OUTFALL 7, AND EXISTING STORAGE LOST IN POND 7A1.

LEGEND

- PROPOSED PAVEMENT (FRTG. AND ML)
- EXIST. STM SWR/CULVERTS
- EXIST. CHANNEL/DITCH
- PROP. STM SWR
- INLET/MH (ANALYSIS NODE)
- POND 1 PROPOSED DETENTION POND
- FLOW DIRECTION

0 100 200 400

SCALE (H) 1" = 200'

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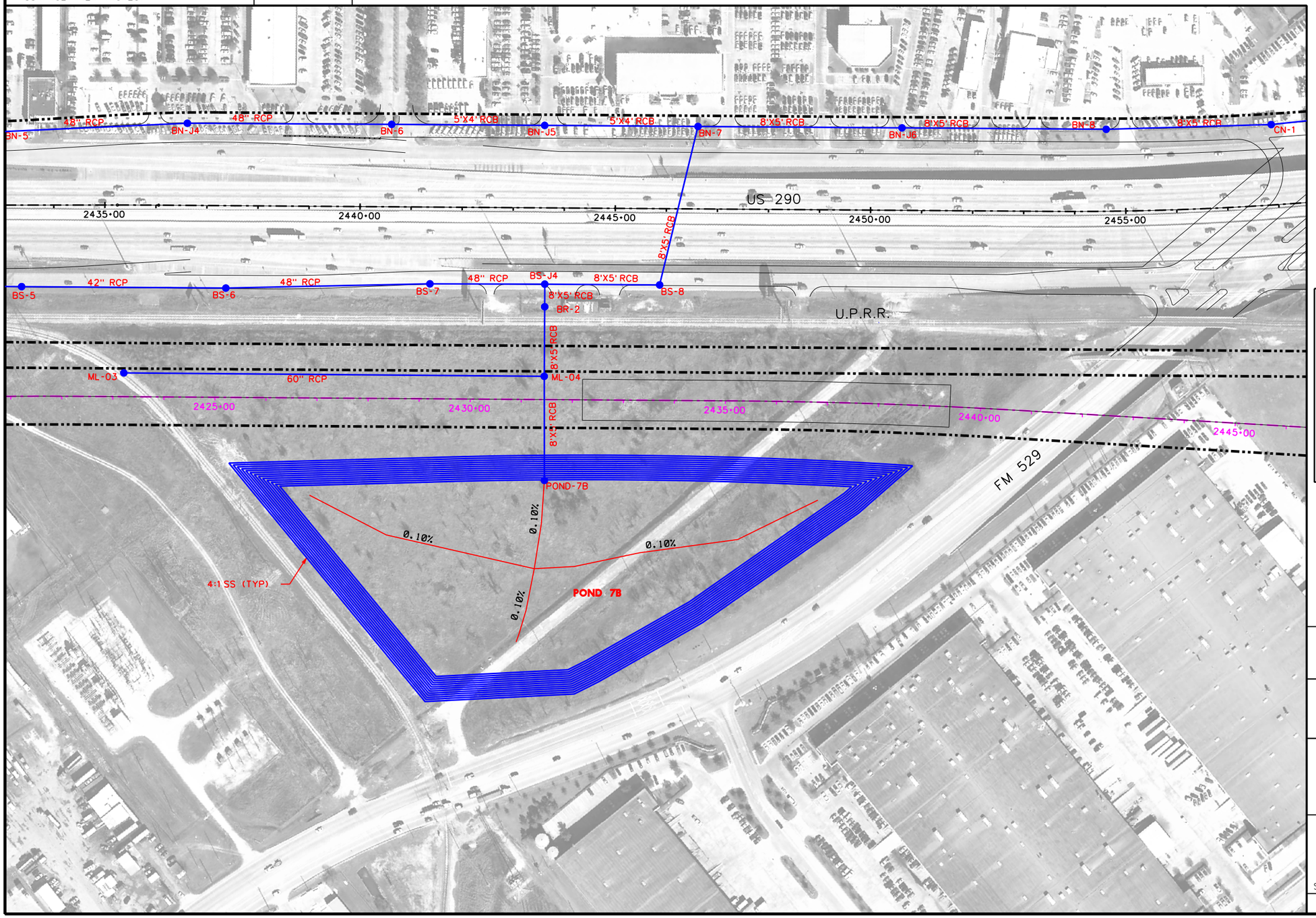
PROPOSED DETENTION POND

DETENTION BASIN	POND 7B
DESIGN STORAGE PROVIDED (ACRE-FT)	56.46
EST. STORAGE REQ'D (ACRE-FT)	128.71
MAX. PONDING ELEVATION (FT)	102.93
INFLOW/OUTFLOW PIPE SIZE	8'x5' RCB
MAX DISCHARGE (cfs)	349.37
TOB ELEVATION (FT)	107
MIN. BASIN ELEVATION	95
SURFACE AREA (ACRES)	9.2

*INCLUDES ESTIMATED STORAGE FOR OUTFALL 7 AND OUTFALL 8



LEGEND

- PROPOSED PAVEMENT (FRTG. AND ML)
- EXIST. STM SWR/CULVERTS
- EXIST. CHANNEL/DITCH
- PROP. STM SWR
- INLET/MH (ANALYSIS NODE)
- **POND 1** PROPOSED DETENTION POND
- FLOW DIRECTION

0 100 200 400

SCALE (H) 1" = 200'

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US 290 PMC

PROPOSED DETENTION POND

SHEET 5 OF 12

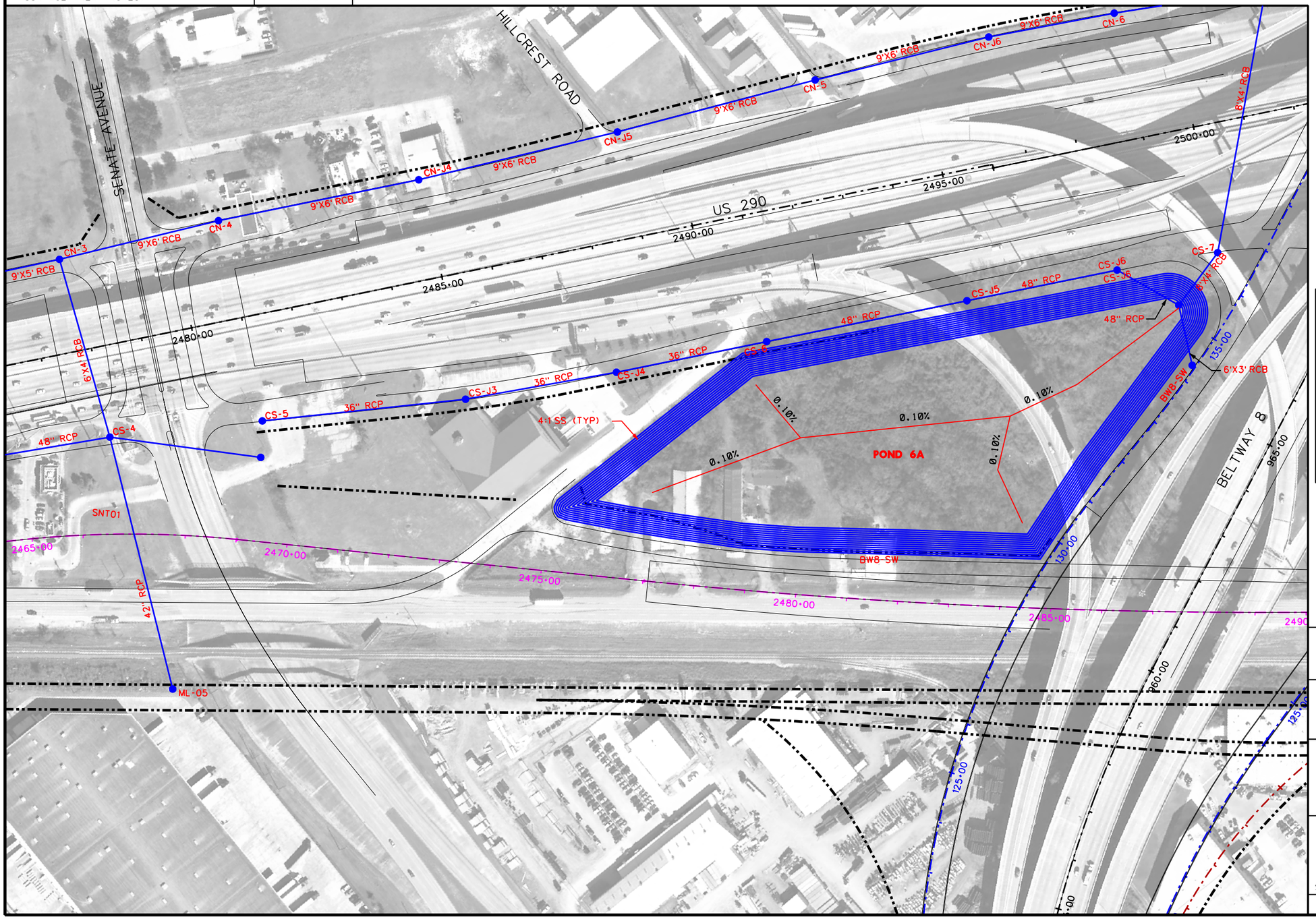
8/27/2009

EXHIBIT 9

...\DRA\US 290_Phase II_Det_5.dgn

DETENTION BASIN	POND 6A
DESIGN STORAGE PROVIDED (ACRE-FT)	92.40
EST. STORAGE REQ'D (ACRE-FT)	128.71
MAX. PONDING ELEVATION (FT)	102.90
INFLOW/OUTFLOW PIPE SIZE	8'X4' RCB
MAX DISCHARGE (CFS)	373.91
TOB ELEVATION (FT)	103.00
MIN. BASIN ELEVATION	91.00
SURFACE AREA (ACRES)	10.03

*INCLUDES ESTIMATED STORAGE FOR OUTFALL 7 AND OUTFALL 8



LEGEND

- PROPOSED PAVEMENT (FRTG. AND ML)
- EXIST. STM SWR/CULVERTS
- EXIST. CHANNEL/DITCH
- PROP. STM SWR
- INLET/MH (ANALYSIS NODE)
- **POND 1** PROPOSED DETENTION POND
- FLOW DIRECTION

0 100 200 400

SCALE (H) 1" = 200'

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PROPOSED DETENTION POND

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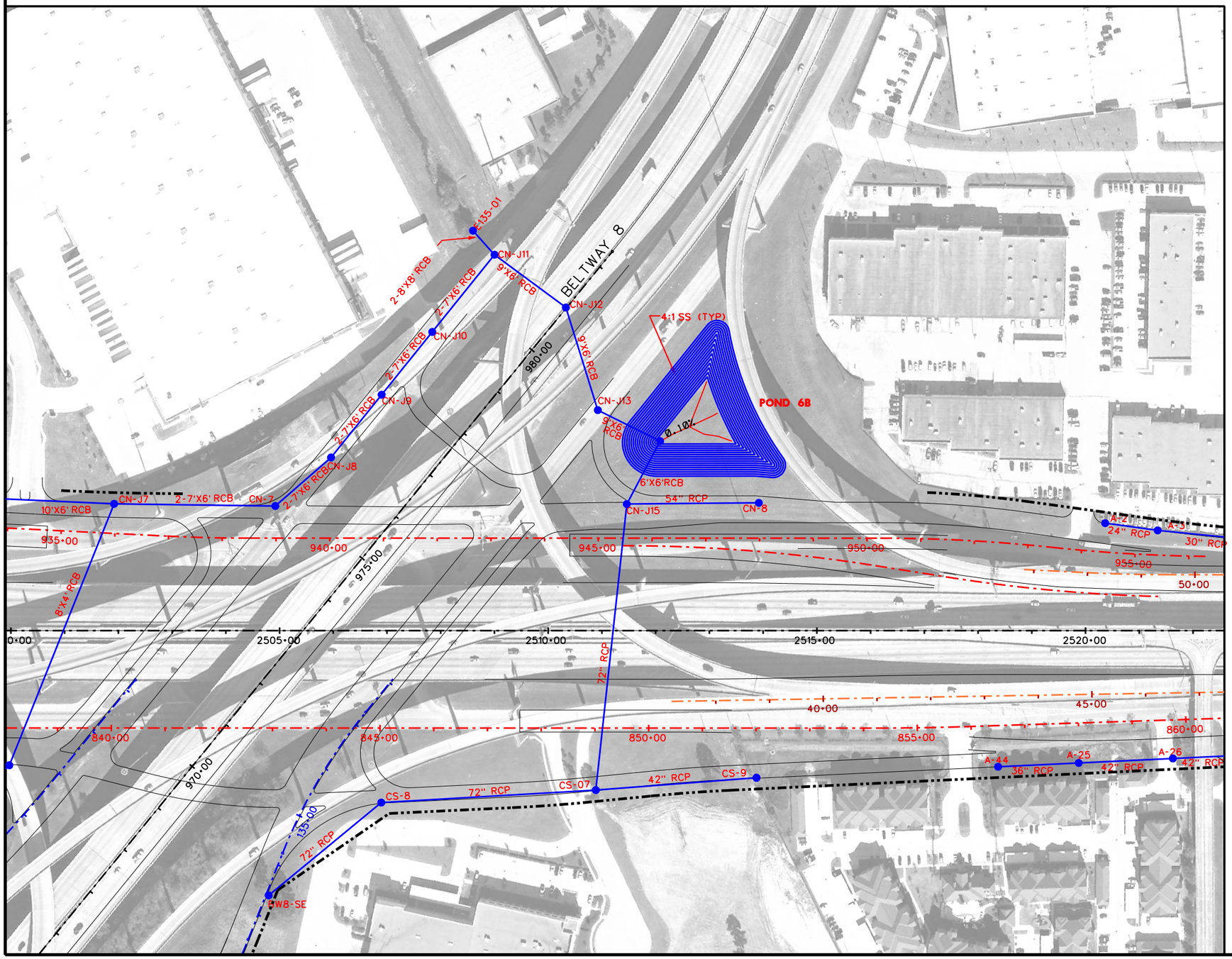
2/27/2012 | EXHIBIT 9

...\US 290_Phase II_Det_6-BW8rev.dgn

DETENTION BASIN	POND 6B
DESIGN STORAGE PROVIDED (ACRE-FT)	9.20
EST. STORAGE REQ'D (ACRE-FT)	128.71
MAX. PONDING ELEVATION (FT)	102.89
INFLOW/OUTFLOW PIPE SIZE	9'x6' RCB
MAX DISCHARGE (CFS)	163.97
TOB ELEVATION (FT)	103.00
MIN. BASIN ELEVATION	88.00
SURFACE AREA (ACRES)	1.21

*INCLUDES ESTIMATED STORAGE FOR OUTFALL 7 AND OUTFALL 8



LEGEND

- PROPOSED PAVEMENT (FRTG. AND ML)
- EXIST. STM SWR/CULVERTS
- EXIST. CHANNEL/DITCH
- PROP. STM SWR
- INLET/MH (ANALYSIS NODE)
- **POND 1** PROPOSED DETENTION POND
- FLOW DIRECTION

0 100 200 400

SCALE (H) 1" = 200'

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PROPOSED DETENTION POND

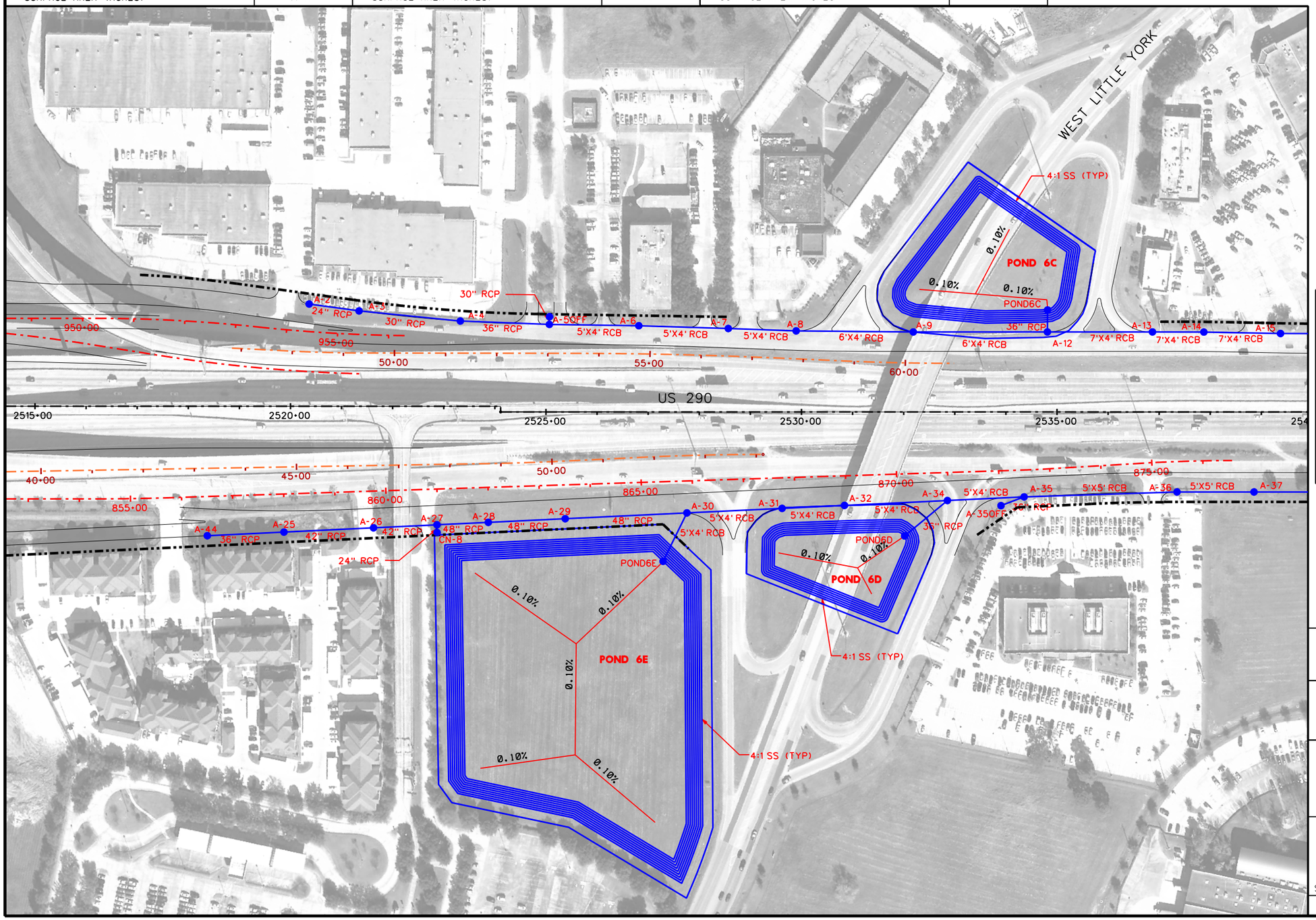
SHEET 7 OF 12

11/5/2009 | EXHIBIT 9

...\DRA\US 290_Pinsell_Det_7.dgn

DETENTION BASIN	POND 6E	DETENTION BASIN	POND 6D	DETENTION BASIN	POND 6C
DESIGN STORAGE PROVIDED (ACRE-FT)	23.97	DESIGN STORAGE PROVIDED (ACRE-FT)	4.83	DESIGN STORAGE PROVIDED (ACRE-FT)	10.45
EST. STORAGE REQ'D (ACRE-FT)	19.27 *	EST. STORAGE REQ'D (ACRE-FT)	19.27 *	EST. STORAGE REQ'D (ACRE-FT)	19.27 *
MAX. PONDING ELEVATION (FT)	94.24	MAX. PONDING ELEVATION (FT)	94.86	MAX. PONDING ELEVATION (FT)	96.20
INFLOW/OUTFLOW PIPE SIZE	5'x4' RCB	INFLOW/OUTFLOW PIPE SIZE	36" RCP	INFLOW/OUTFLOW PIPE SIZE	36" RCP
MAX DISCHARGE (CFS)	131.29	MAX DISCHARGE (CFS)	43.10	MAX DISCHARGE (CFS)	97.43
TOB ELEVATION (FT)	98.00	TOB ELEVATION (FT)	95.00	TOB ELEVATION (FT)	95.00
MIN. BASIN ELEVATION	89.42	MIN. BASIN ELEVATION	88.23	MIN. BASIN ELEVATION	88.10
SURFACE AREA (ACRES)	6.41	SURFACE AREA (ACRES)	1.01	SURFACE AREA (ACRES)	1.61

* INCLUDES ESTIMATED STORAGE FOR OUTFALL 9 AND OUTFALL 10



LEGEND

- PROPOSED PAVEMENT (FRTG. AND ML)
- EXIST. STM SWR/CULVERTS
- EXIST. CHANNEL/DITCH
- PROP. STM SWR
- INLET/MH (ANALYSIS NODE)
- POND 1 PROPOSED DETENTION POND
- FLOW DIRECTION

0 100 200 400

SCALE (H) 1" = 200'

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SUBJECT TO CHANGE

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PROPOSED DETENTION POND

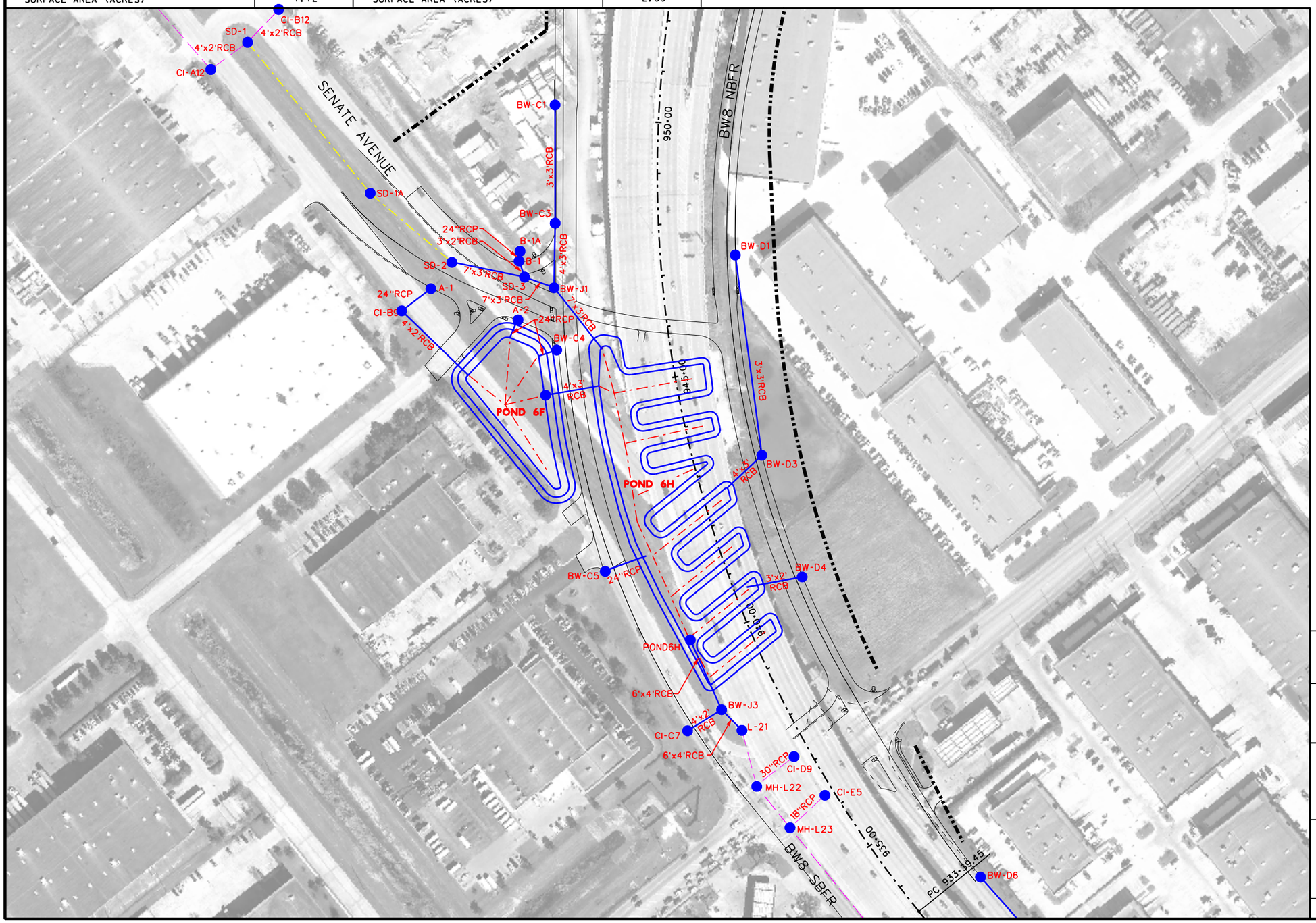
SHEET 8 OF 12

7/12/2011

EXHIBIT 9

...\DRA\US 290_Phase1_Det_8.dgn

DETENTION BASIN	POND 6F	DETENTION BASIN	POND 6H
DESIGN STORAGE PROVIDED (ACRE-FT)	3.01	DESIGN STORAGE PROVIDED (ACRE-FT)	9.22
EST. STORAGE REQ'D (ACRE-FT)	3.01	EST. STORAGE REQ'D (ACRE-FT)	9.22
MAX. PONDING ELEVATION (FT)	103.34	MAX. PONDING ELEVATION (FT)	103.32
INFLOW/OUTFLOW PIPE SIZE	4'x3' RCB	INFLOW/OUTFLOW PIPE SIZE	6'x4' RCB
MAX DISCHARGE (CFS)	30.92	MAX DISCHARGE (CFS)	179.40
TOB ELEVATION (FT)	103.50	TOB ELEVATION (FT)	103.50
MIN. BASIN ELEVATION	97.60	MIN. BASIN ELEVATION	96.39
SURFACE AREA (ACRES)	1.12	SURFACE AREA (ACRES)	2.39



LEGEND

- PROPOSED PAVEMENT (FRTG. AND ML)
- EXIST. STM SWR/CULVERTS
- EXIST. CHANNEL/DITCH
- PROP. STM SWR
- INLET/MH (ANALYSIS NODE)
- **POND 1** PROPOSED DETENTION POND
- FLOW DIRECTION

0 100 200 400

SCALE (H) 1" = 200'

PRELIMINARY
SUBJECT TO CHANGE

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US 290 PMC

PROPOSED DETENTION POND

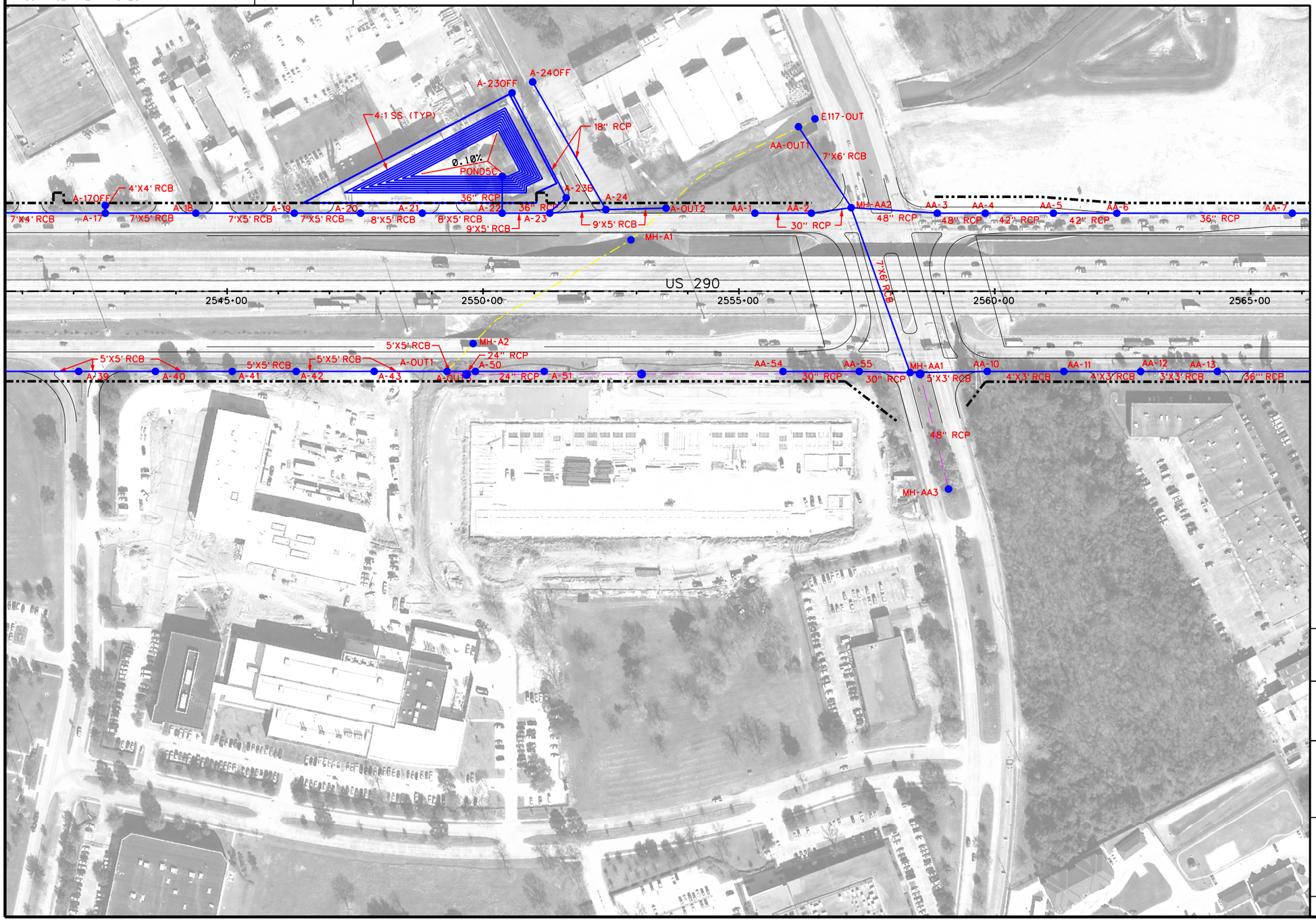
SHEET 8A OF 12

2/27/2012 | EXHIBIT 9

...\US 290_Phase1_Det_8B-BW8rev.dgn

DETENTION BASIN	POND 5C
DESIGN STORAGE PROVIDED (ACRE-FT)	4.36
EST. STORAGE REQ'D (ACRE-FT)	19.27 *
MAX. PONDING ELEVATION (FT)	94.35
INFLOW/OUTFLOW PIPE SIZE	36" RCP
MAX DISCHARGE (CFS)	29.11
TOB ELEVATION (FT)	93.50
MIN. BASIN ELEVATION	84.96
SURFACE AREA (ACRES)	0.74

* INCLUDES ESTIMATED STORAGE FOR OUTFALL 9 AND OUTFALL 10



LEGEND

- PROPOSED PAVEMENT (FRTG. AND ML)
- EXIST. STM SWR/CULVERTS
- EXIST. CHANNEL/DITCH
- PROP. STM SWR
- INLET/MH (ANALYSIS NODE)
- **POND 1** PROPOSED DETENTION POND
- FLOW DIRECTION

0 100 200 400

SCALE (H) 1" = 200'

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PROPOSED DETENTION POND

SHEET 9 OF 12

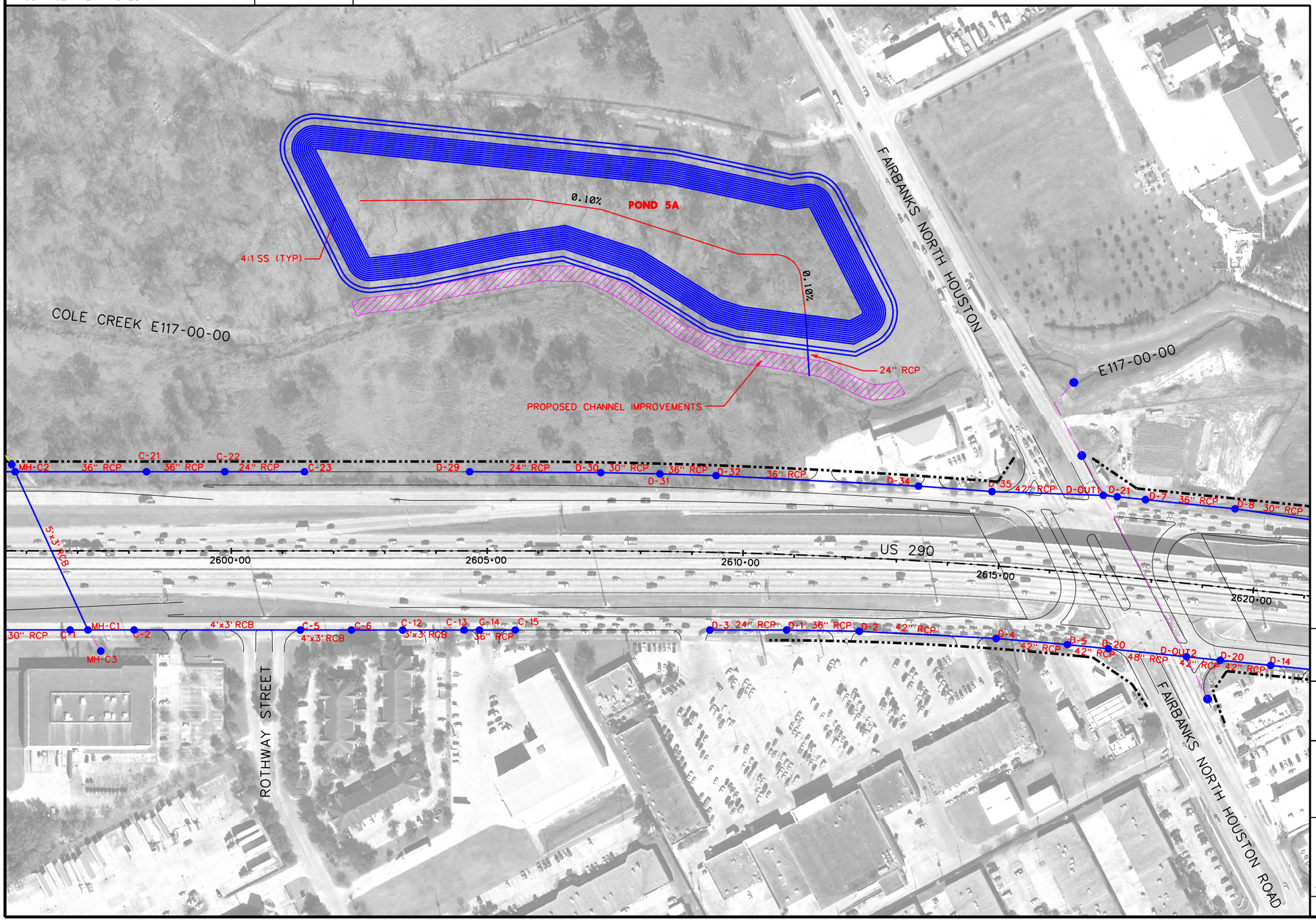
7/12/2011

EXHIBIT 9

...\DRA\US 290_Phase II_Det_9.dgn

DETENTION BASIN	POND 5A
DESIGN STORAGE PROVIDED (ACRE-FT)	54.00
EST. STORAGE REQ'D (ACRE-FT)	45.38*
MAX. PONDING ELEVATION (FT)	90.04
INFLOW/OUTFLOW PIPE SIZE	24" RCP
MAX DISCHARGE (CFS)	43.50
TOB ELEVATION (FT)	91.00
MIN. BASIN ELEVATION	76.66
SURFACE AREA (ACRES)	6.35

*INCLUDES ESTIMATED STORAGE FOR OUTFALL 11 THRU OUTFALL 16



LEGEND

- PROPOSED PAVEMENT (FRTG. AND ML)
- EXIST. STM SWR/CULVERTS
- EXIST. CHANNEL/DITCH
- PROP. STM SWR
- INLET/MH (ANALYSIS NODE)
- **POND 1** PROPOSED DETENTION POND
- FLOW DIRECTION

0 100 200 400

SCALE (H) 1" = 200'

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PROPOSED DETENTION POND

SHEET 10 OF 12

7/12/2011

EXHIBIT 9

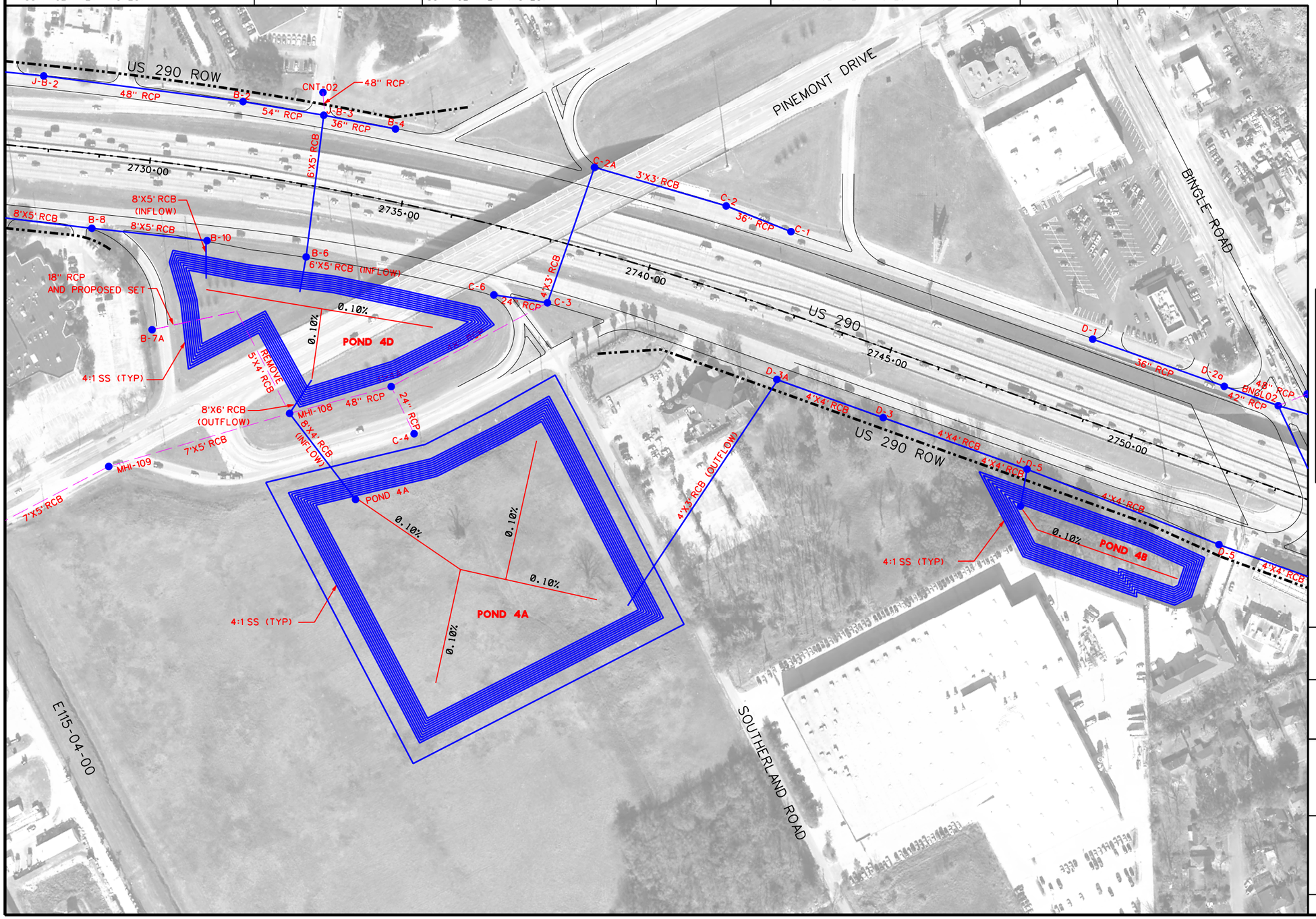
...\DRA\US 290_Phase II_Det_10.dgn

DETENTION BASIN	POND 4D
DESIGN STORAGE PROVIDED (ACRE-FT)	22.7
EST. STORAGE REQ'D (ACRE-FT)	24.47*
MAX. PONDING ELEVATION (FT)	82.13
INFLOW/OUTFLOW PIPE SIZE	8'X5'RCB, 6'X5'RCB, 8'X6'RCB
MAX DISCHARGE (CFS)	419.27
TOB ELEVATION (FT)	82.50
MIN. BASIN ELEVATION	70.46
SURFACE AREA (ACRES)	2.41

DETENTION BASIN	POND 4A
DESIGN STORAGE PROVIDED (ACRE-FT)	62.4
EST. STORAGE REQ'D (ACRE-FT)	24.47*
MAX. PONDING ELEVATION (FT)	81.97
INFLOW/OUTFLOW PIPE SIZE	8'X4'RCB, 4'X3'RCB
MAX DISCHARGE (CFS)	96.79
TOB ELEVATION (FT)	82.00
MIN. BASIN ELEVATION	70.18
SURFACE AREA (ACRES)	6.21

DETENTION BASIN	POND 4B
DESIGN STORAGE PROVIDED (ACRE-FT)	8.4
EST. STORAGE REQ'D (ACRE-FT)	24.47*
MAX. PONDING ELEVATION (FT)	79.80
INFLOW/OUTFLOW PIPE SIZE	4'X4' RCB
MAX DISCHARGE (CFS)	-63.52
TOB ELEVATION (FT)	80.00
MIN. BASIN ELEVATION	69.21
SURFACE AREA (ACRES)	1.14

*INCLUDES ESTIMATED STORAGE FOR OUTFALL 17, 18 AND 19



LEGEND

- PROPOSED PAVEMENT (FRTG. AND ML)
- EXIST. STM SWR/CULVERTS
- EXIST. CHANNEL/DITCH
- PROP. STM SWR
- INLET/MH (ANALYSIS NODE)
- **POND 1** PROPOSED DETENTION POND
- FLOW DIRECTION

0 100 200 400

SCALE (H) 1" = 200'

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PROPOSED DETENTION POND

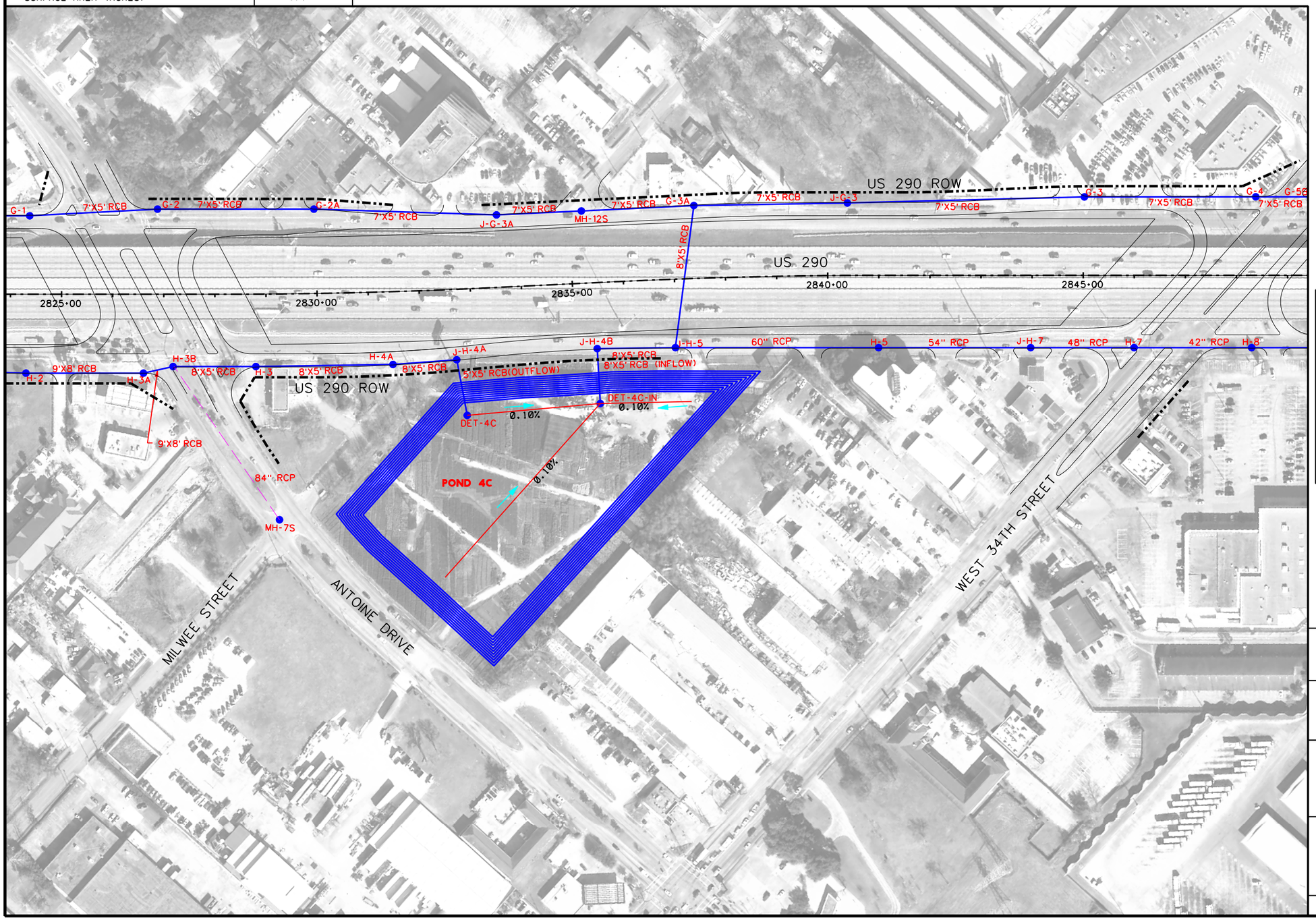
SHEET 11 OF 12

9/8/2009 | EXHIBIT 9

...\DRA\US 290_Phase1_Det_11.dgn

DETENTION BASIN	POND 4C
DESIGN STORAGE PROVIDED (ACRE-FT)	59.88
EST. STORAGE REQ'D (ACRE-FT)	34.8*
MAX. PONDING ELEVATION (FT)	71.03
INFLOW/OUTFLOW PIPE SIZE	8'X5'/5'X5' RCB
MAX DISCHARGE (CFS)	186.28
TOB ELEVATION (FT)	72.50
MIN. BASIN ELEVATION	57.20
SURFACE AREA (ACRES)	5.9

* INCLUDES ESTIMATED STORAGE FOR OUTFALL 20, 21 AND 22.



LEGEND

- PROPOSED PAVEMENT (FRTG. AND ML)
- EXIST. STM SWR/CULVERTS
- EXIST. CHANNEL/DITCH
- PROP. STM SWR
- INLET/MH (ANALYSIS NODE)
- **POND 1** PROPOSED DETENTION POND
- FLOW DIRECTION

0 100 200 400

SCALE (H) 1" = 200'

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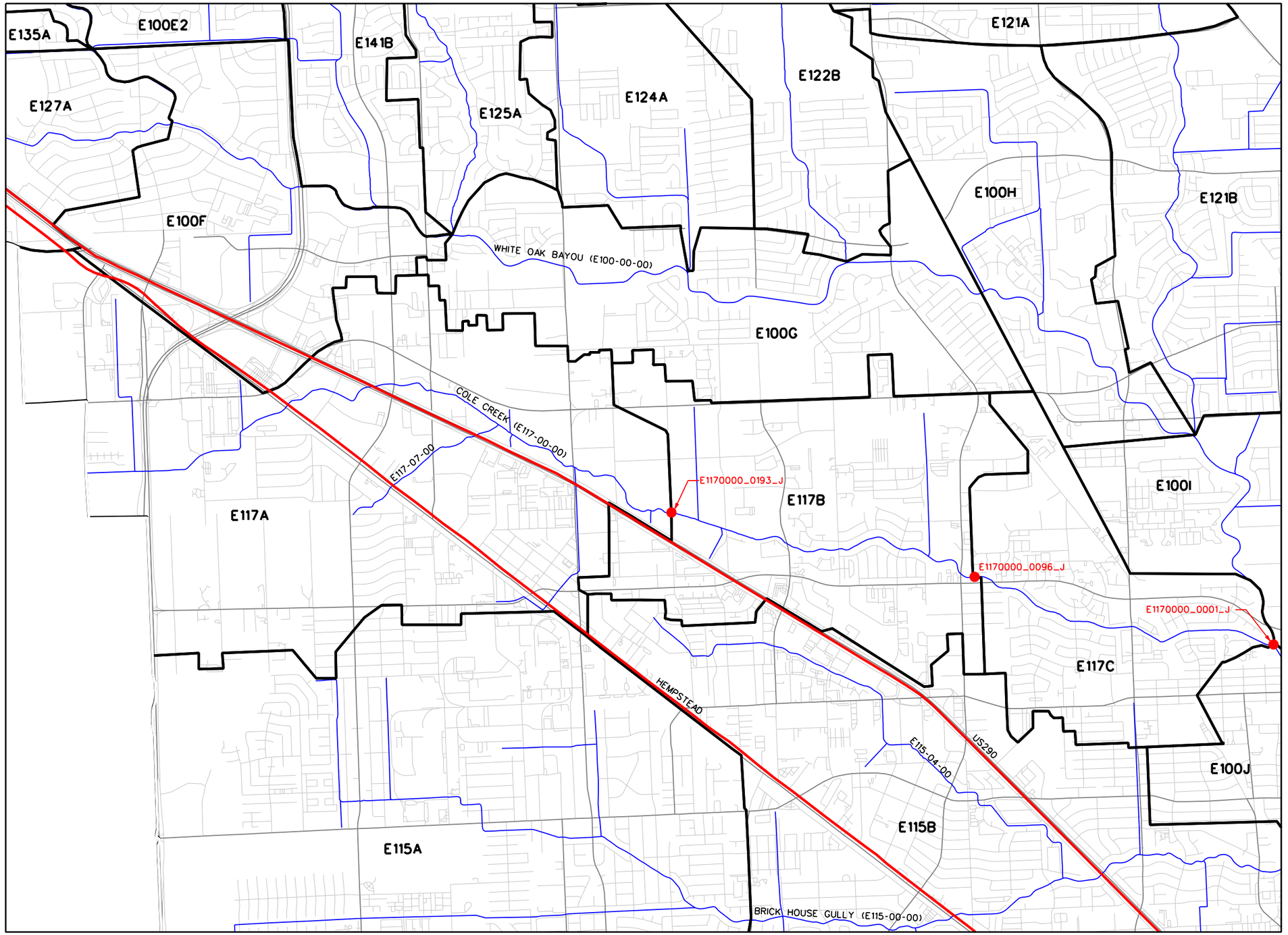
PROPOSED DETENTION POND

SHEET 12 OF 12

8/27/2009

EXHIBIT 9

...\DRA\US 290_Phase II_Det_12.dgn



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LEGEND

- FEMA DRAINAGE AREA BOUNDARY
- E117 FEMA DRAINAGE AREA ID
- HEC-HMS NODE
- US 290/HEMPSTEAD PROGRAM LIMITS
- MAJOR ROADWAYS
- MINOR ROADWAYS
- STREAMS

0 1500 3000 6000

SCALE 1" = 3000'

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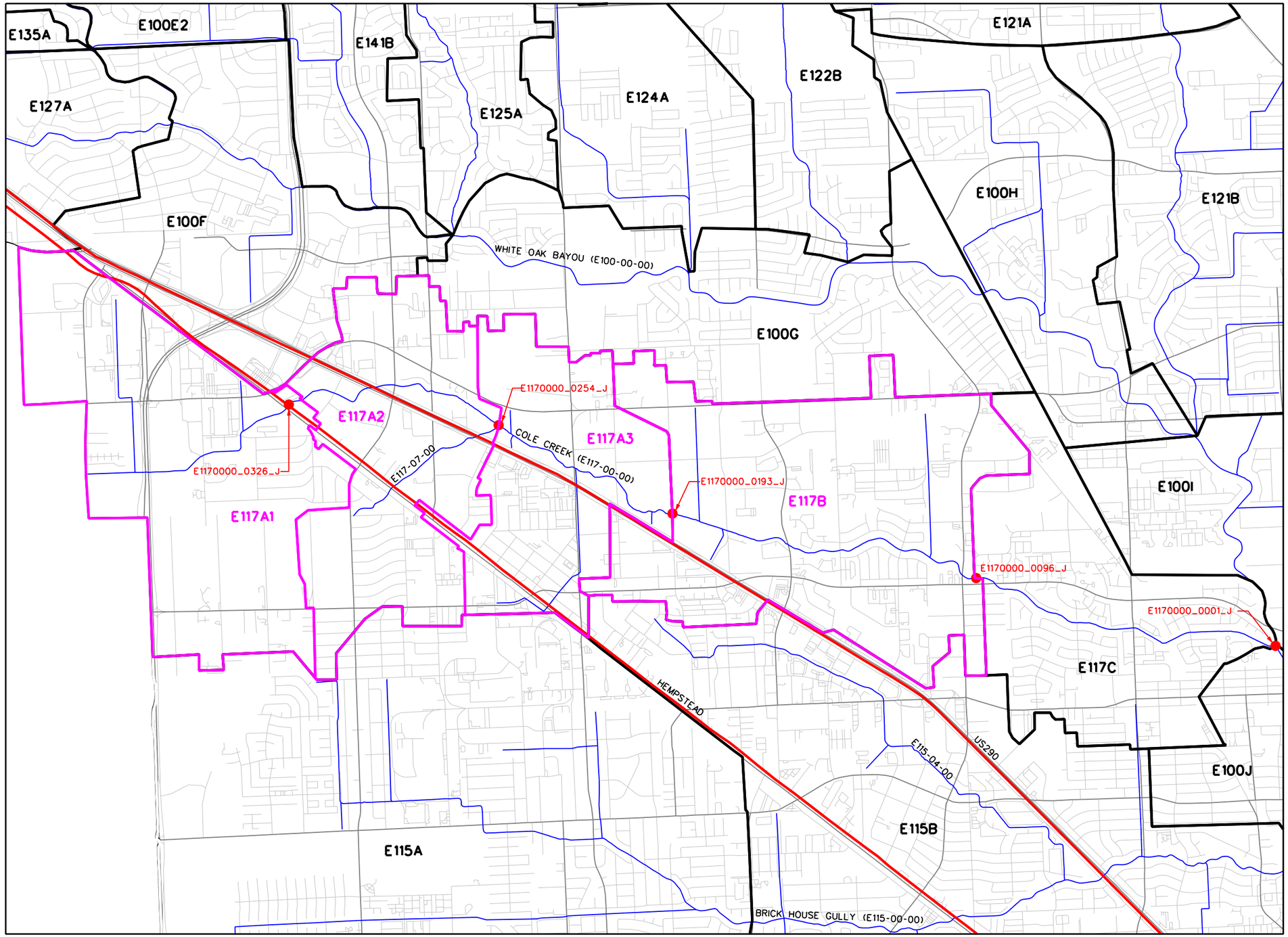
E117-00-00 WATERSHED
FEMA EFFECTIVE DRAINAGE AREA MAP

SHEET 1 OF 1

8/27/2009

EXHIBIT 10

...\Prasell\DRA\Exhibit 10.dgn



LEGEND

- FEMA DRAINAGE AREA BOUNDARY
- E117 FEMA DRAINAGE AREA ID
- REVISED EXISTING DRAINAGE AREA BOUNDARY
- E117 REVISED EXISTING DRAINAGE AREA ID
- HEC-HMS NODE
- US 290/HEMPSTEAD PROGRAM LIMITS
- MAJOR ROADWAYS
- MINOR ROADWAYS
- STREAMS

0 1500 3000 6000

SCALE 1" = 3000'

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E117-00-00 WATERSHED
REVISED EXISTING DRAINAGE AREA MAP

SHEET 1 OF 1

8/27/2009

EXHIBIT 11

...\Prasell\DRA\Exhibit 11.dgn

E135A
E100E2
E141B
E121A
E127A
E125A
E124A
E122B
E100H
E121B
E100F
WHITE OAK BAYOU (E100-00-00)
E100G
E1170000_0254_J
E117A2
E117A3
E117-07-00
E1170000_0326_J
E1170000_0193_J
E117A1
E117B
COLE CREEK (E117-00-00)
E100I
E1170000_0096_J
E1170000_0001_J
E117C
HEMPSTEAD
US290
E115-04-00
E100J
E115B
E115A
BRICK HOUSE GULLY (E115-00-00)

N

LEGEND

- FEMA DRAINAGE AREA BOUNDARY
- E117 FEMA DRAINAGE AREA ID
- MITIGATED DRAINAGE AREA BOUNDARY
- E117 MITIGATED DRAINAGE AREA ID
- HEC-HMS NODE
- PROPOSED DETENTION FACILITY
- US 290/HEMPSTEAD PROGRAM LIMITS
- MAJOR ROADWAYS
- MINOR ROADWAYS
- STREAMS

0 1500 3000 6000

SCALE 1" = 3000'

PRELIMINARY
SUBJECT TO CHANGE

COMMUNITY 290 DRIVEN
Program Office
Brookhollow III,
2950 North Loop W.
Suite 1150
Houston, Texas 77092

Texas Department of Transportation
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US 290 PMC

E117-00-00 WATERSHED
MITIGATED DRAINAGE AREA MAP

SHEET 1 OF 1

8/27/2009 | EXHIBIT 12

\\Phasel\DRA\Exhibit 12.dgn

Floodplain Limits			Total Fill	Total Cut	Balance	Average	Length	Total Fill Volume (ft3)	Total Fill Volume (acre-ft)
Begin	2344+90.00								
End	2358+13.00								
Length	13+23.00								
Outfall No.	6	2344+90.00							
E135-00-00		**2345+00.00**	63.252	0.8203	**62.4317**	**62.4317**	**10.00**	624.32	0.01
		2350+00.00	79.0127	0	**79.0127**	**70.7222**	**500.00**	35361.10	0.81
		2355+00.00	10.4215	25.2664	**-14.8449**	**32.0839**	**500.00**	16041.95	0.37
		2358+13.00		0	**-14.8449**	**-14.8449**	**313.00**	-4646.45	-0.11
							Total	47380.91	1.09

Floodplain Limits			Total Fill	Total Cut	Balance	Average	Length	Total Fill Volume (ft3)	Total Fill Volume (acre-ft)
Begin	2408+56.00								
End	2410+12.00								
Length	01+56.00								
Outfall No.	7								
E127-00-00		2408+56.00							
		2410+00.00	0	0	**0**	**0**	**144.00**	0.00	0.00
		2410+12.00	0	0	**0**	**0**	**12.00**	0.00	0.00
							Total	0.00	0.00

Floodplain Limits			Total Fill	Total Cut	Balance	Average	Length	Total Fill Volume (ft3)	Total Fill Volume (acre-ft)
Begin	2483+98.00								
End	2511+14.00								
Length	27+16.00								
Outfall No.	8								
E139-00-00		2483+98.00							
		2485+00.00	3.6309	26.6545	**-23.0236**	**-23.0236**	**102.00**	-2348.41	-0.05
		2490+00.00	36.2609	43.1836	**-6.9227**	**-14.9732**	**500.00**	-7486.58	-0.17
		2495+00.00	22.5223	170.2723	**-147.75**	**-77.3364**	**500.00**	-38668.18	-0.89
		2500+00.00	36.1068	195.2337	**-159.127**	**-153.438**	**500.00**	-76719.23	-1.76
		2505+00.00	323.2825	47.4061	**275.8764**	**58.37475**	**500.00**	29187.38	0.67
		2510+00.00	73.5926	77.8959	**-4.3033**	**135.7866**	**500.00**	67893.28	1.56
		2511+14.00	73.5926	77.8959	**-4.3033**	**-4.3033**	**114.00**	-490.58	-0.01
							Total	-28632.31	-0.66

Floodplain Limits			Total Fill	Total Cut	Balance	Average	Length	Total Fill Volume (ft3)	Total Fill Volume (acre-ft)
Begin	2543+60.00								
End	2554+94.00								
Length	11+34.00								
Outfall No.	9 & 10								
E117-00-00		2543+60.00							
		2545+00.00	149.8084	0	149.8084	149.8084	140	20973.18	0.48
		2550+00.00	1155.595	4.4346	1151.161	650.4846	500	325242.28	7.47
		2554+94.00			1151.161	1151.161	494	568673.39	13.05
							Total	914888.84	21.00

Floodplain Limits			Total Fill	Total Cut	Balance	Average	Length	Total Fill Volume (ft3)	Total Fill Volume (acre-ft)
Begin	2580+65.00								
End	2586+58.00								
Length	05+93.00								
Outfall No.	11	2580+65.00							
E117-00-00		**2585+00.00**	198.9256	0.6822	198.2434	198.2434	435.00	86235.88	1.98
		2586+58.00			198.2434	198.2434	158.00	31322.46	0.72
							Total	117558.34	2.70

Floodplain Limits			Total Fill	Total Cut	Balance	Average	Length	Total Fill Volume (ft3)	Total Fill Volume (acre-ft)
Begin	2586+58.00								
End	2608+90.00								
Length	22+32.00								
Outfall No.	12	2586+58.00							
E117-00-00		**2590+00.00**	118.1868	0	118.1868	118.1868	342.00	40419.89	0.93
		2595+00.00	208.1315	0	208.1315	163.1592	500.00	81579.58	1.87
		2600+00.00	166.3961	13.3898	153.0063	180.5689	500.00	90284.45	2.07
		2605+00.00	187.2823	0	187.2823	170.1443	500.00	85072.15	1.95
		2608+90.00			187.2823	187.2823	390.00	73040.10	1.68
							Total	370396.16	8.50

Floodplain Limits			Total Fill	Total Cut	Balance	Average	Length	Total Fill Volume (ft3)	Total Fill Volume (acre-ft)
Begin	2608+90.00								
End	2629+97.00								
Length	21+07.00								
Outfall No.	13	2608+90.00							
E117-00-00		**2610+00.00**	129.0004	21.4964	107.504	107.504	110.00	11825.44	0.27
		2615+00.00	202.3942	3.9413	198.4529	152.9785	500.00	76489.23	1.76
		2620+00.00	155.4898	0.9007	154.5891	176.521	500.00	88260.50	2.03
		2625+00.00	171.4026	1.3032	170.0994	162.3443	500.00	81172.13	1.86
		2629+97.00			170.0994	170.0994	497.00	84539.40	1.94
							Total	342286.69	7.86

Floodplain Limits			Total Fill	Total Cut	Balance	Average	Length	Total Fill Volume (ft3)	Total Fill Volume (acre-ft)
Begin	2629+97.00								
End	2645+53.00								
Length	15+56.00								
Outfall No.	14	2629+97.00							
E117-00-00		**2630+00.00**	5.2494	21.5633	-16.3139	-16.3139	3.00	-48.94	0.00
		2635+00.00	61.5306	0	61.5306	22.60835	500.00	11304.18	0.26
		2640+00.00	27.2687	0.9101	26.3586	43.9446	500.00	21972.30	0.50
		2645+00.00	22.3757	0.2234	22.1523	24.25545	500.00	12127.73	0.28
		2645+53.00			22.1523	22.1523	53.00	1174.07	0.03
							Total	46529.33	1.07

Floodplain Limits			Total Fill	Total Cut	Balance	Average	Length	Total Fill Volume (ft3)	Total Fill Volume (acre-ft)
Begin	2647+15.00								
End	2663+92.00								
Length	16+77.00								
Outfall No.	15	2647+15.00							
E117-00-00		**2650+00.00**	43.4782	0	43.4782	43.4782	285.00	12391.29	0.28
		2655+00.00	10.3758	0	10.3758	26.927	500.00	13463.50	0.31
		2660+00.00	72.3102	1.5116	70.7986	40.5872	500.00	20293.60	0.47
		2663+92.00			70.7986	70.7986	392.00	27753.05	0.64
							Total	73901.44	1.70

Floodplain Limits			Total Fill	Total Cut	Balance	Average	Length	Total Fill Volume (ft3)	Total Fill Volume (acre-ft)
Begin	2665+08.00								
End	2697+85.00								
Length	32+77.00								
Outfall No.	16	2665+08.00							
E117-00-00 & E115-04-00		**2670+00.00**	31.2245	5.4909	25.7336	25.7336	492.00	12660.93	0.29
		2675+00.00	11.8864	1.3504	10.536	18.1348	500.00	9067.40	0.21
		2680+00.00	36.0824	1.1133	34.9691	22.75255	500.00	11376.28	0.26
		2685+00.00	9.6825	13.26	-3.5775	15.6958	500.00	7847.90	0.18
		2690+00.00	10.4404	33.9829	-23.5425	-13.56	500.00	-6780.00	-0.16
		2695+00.00	66.8987	0.6487	66.25	21.35375	500.00	10676.88	0.25
		2697+85.00			66.25	66.25	285.00	18881.25	0.43
							Total	63730.63	1.46

Floodplain Limits			Total Fill	Total Cut	Balance	Average	Length	Total Fill Volume (ft3)	Total Fill Volume (acre-ft)
Begin	2697+85.00								
End	2738+22.00								
Length	40+37.00								
Outfall No.	6	2697+85.00							
E117-00-00 & E115-04-00		**2700+00.00**	214.5567	0.2936	214.2631	214.2631	215.00	46066.57	1.06
		2705+00.00	363.8565	0.4631	363.3934	288.8283	500.00	144414.13	3.32
		2710+00.00	323.2291	0	323.2291	343.3113	500.00	171655.63	3.94
		2715+00.00	352.6623	0	352.6623	337.9457	500.00	168972.85	3.88
		2720+00.00	356.724	0	356.724	354.6932	500.00	177346.58	4.07
		2725+00.00	208.4611	0	208.4611	282.5926	500.00	141296.28	3.24
		2730+00.00	371.4891	0	371.4891	289.9751	500.00	144987.55	3.33
		2735+00.00	375.6414	0	375.6414	373.5653	500.00	186782.63	4.29
		2738+22.00			375.6414	375.6414	322.00	120956.53	2.78
							Total	1302478.72	29.90

Floodplain Limits			Total Fill	Total Cut	Balance	Average	Length	Total Fill Volume (ft3)	Total Fill Volume (acre-ft)
Begin	2742+34.00								
End	2747+51.00								
Length	05+17.00								
Outfall No.	19	2742+34.00							
E115-04-00		**2745+00.00**	45.3459	0	45.3459	45.3459	266.00	12062.01	0.28
		2747+51.00			45.3459	45.3459	251.00	11381.82	0.26
							Total	23443.83	0.54

Floodplain Limits			Total Fill	Total Cut	Balance	Average	Length	Total Fill Volume (ft3)	Total Fill Volume (acre-ft)
Begin	2767+85.00								
End	2804+13.00								
Length	36+28.00								
Outfall No.	20 & 21	2767+85.00							
E115-04-00		**2770+00.00**	115.2113	0.8269	114.3844	114.3844	215.00	24592.65	0.56
		2775+00.00	233.9545	0	233.9545	174.1695	500.00	87084.73	2.00
		2780+00.00	354.8947	0	354.8947	294.4246	500.00	147212.30	3.38
		2785+00.00	252.7109	0	252.7109	303.8028	500.00	151901.40	3.49
		2790+00.00	273.3727	0	273.3727	263.0418	500.00	131520.90	3.02
		2795+00.00	334.7688	0	334.7688	304.0708	500.00	152035.38	3.49
		2800+00.00	362.0972	0	362.0972	348.433	500.00	174216.50	4.00
		2804+13.00			362.0972	362.0972	413.00	149546.14	3.43
							Total	1018109.99	23.37

Floodplain Limits			Total Fill	Total Cut	Balance	Average	Length	Total Fill Volume (ft3)	Total Fill Volume (acre-ft)
Begin	2804+13.00								
End	2818+05.00								
Length	13+92.00								
Outfall No.	22	2804+13.00							
E115-00-00		**2805+00.00**	415.8246	0	415.8246	415.8246	87.00	36176.74	0.83
		2810+00.00	331.0284	3.9759	327.0525	371.4386	500.00	185719.28	4.26
		2815+00.00	381.0373	19.8688	361.1685	344.1105	500.00	172055.25	3.95
		2818+05.00			361.1685	361.1685	305.00	110156.39	2.53
							Total	504107.66	11.57

STORMSEWER DESIGN CALCULATIONS
OUTFALL 1 DRAINAGE AREA CALCULATIONS

DRAINAGE AREA ID	RUNOFF C	DRAINAGE AREA (ACRES)	TIME OF CONC.(MIN)	TIME USED (MIN)	INTENSITY	DISCHARGE (CFS)
A-1	0.75	1.46	6.40	10.00	6.76	7.37
A-10	0.66	1.65	5.15	10.00	6.76	7.39
A-11	0.90	0.62	5.14	10.00	6.76	3.75
A-12	0.90	0.66	5.24	10.00	6.76	4.00
A-13	0.65	3.55	9.71	10.00	6.76	15.59
A-14	0.90	0.68	3.56	10.00	6.76	4.12
A-15	0.90	0.68	3.56	10.00	6.76	4.12
A-16	0.90	0.68	3.56	10.00	6.76	4.14
A-17	0.70	5.42	17.93	17.93	5.04	19.10
A-18	0.67	3.09	11.88	11.88	6.25	12.99
A-19	0.67	2.80	10.74	10.74	6.55	12.22
A-2	0.68	1.80	8.50	10.00	6.76	8.24
A-20	0.67	3.54	13.07	13.07	5.96	14.11
A-21	0.81	1.60	9.94	10.00	6.76	8.72
A-22	0.76	2.69	7.87	10.00	6.76	13.75
A-23	0.77	1.49	8.11	10.00	6.76	7.73
A-24	0.90	0.72	4.48	10.00	6.76	4.40
A-25	0.90	0.52	3.46	10.00	6.76	3.18
A-26	0.90	0.54	3.46	10.00	6.76	3.30
A-27	0.69	3.50	10.60	10.60	6.59	15.97
A-28	0.63	1.74	8.14	10.00	6.76	7.44
A-29	0.68	2.08	10.67	10.67	6.57	9.30
A-3	0.65	2.03	9.79	10.00	6.76	8.93
A-30	0.77	2.35	7.14	10.00	6.76	12.21
A-31	0.65	2.90	11.00	11.00	6.48	12.20
A-32	0.90	0.12	4.86	10.00	6.76	0.71
A-33	0.90	0.81	9.33	10.00	6.76	4.91
A-34	0.60	2.15	8.76	10.00	6.76	8.67
A-35	0.58	3.17	13.24	13.24	5.92	10.82
A-36	0.90	0.63	8.38	10.00	6.76	3.81
A-37	0.90	0.61	8.52	10.00	6.76	3.71
A-38	0.90	0.38	5.95	10.00	6.76	2.29
A-39	0.90	0.38	6.00	10.00	6.76	2.30
A-4	0.65	1.52	7.43	10.00	6.76	6.71
A-40	0.90	0.38	6.02	10.00	6.76	2.30
A-41	0.66	0.72	5.52	10.00	6.76	3.17
A-42	0.90	0.40	6.31	10.00	6.76	2.42
A-43	0.69	0.95	5.90	10.00	6.76	4.47
A-44	0.77	1.54	5.11	10.00	6.76	8.06
A-45	0.90	0.42	12.02	12.02	6.21	2.37
A-46	0.90	0.53	9.93	10.00	6.76	3.25
A-47	0.90	0.44	7.45	10.00	6.76	2.68
A-48	0.89	0.51	9.90	10.00	6.76	3.06
A-49	0.80	0.95	6.49	10.00	6.76	5.11
A-5	0.64	2.33	9.45	10.00	6.76	10.07
A-50	0.75	1.87	6.40	10.00	6.76	9.53
A-51	0.80	0.96	6.47	10.00	6.76	5.15
A-52	0.90	0.42	9.67	10.00	6.76	2.54
A-53	0.90	0.42	7.36	10.00	6.76	2.54

STORMSEWER DESIGN CALCULATIONS
OUTFALL 1 DRAINAGE AREA CALCULATIONS

A-54	0.90	0.48	12.12	12.12	6.19	2.66
A-55	0.90	0.54	14.43	14.43	5.67	2.74
A-56	0.78	2.61	4.95	10.00	6.76	13.69
A-57	0.77	1.83	5.46	10.00	6.76	9.51
A-58	0.78	2.47	7.67	10.00	6.76	12.95
A-59	0.90	0.59	3.78	10.00	6.76	3.59
A-6	0.90	0.38	5.79	10.00	6.76	2.30
A-60	0.72	0.45	4.40	10.00	6.76	2.20
A-61	0.77	0.69	10.98	10.98	6.48	3.42
A-62	0.66	0.76	11.14	11.14	6.44	3.24
A-63	0.35	0.72	8.48	10.00	6.76	1.71
A-7	0.90	0.38	6.36	10.00	6.76	2.30
A-8	0.75	0.85	6.47	10.00	6.76	4.31
A-9	0.90	0.40	6.43	10.00	6.76	2.42
EX-1	0.69	0.34	4.11	10.00	6.76	1.60
EX-15	0.90	1.23	6.97	10.00	6.76	7.51
EX-16	0.90	0.96	7.30	10.00	6.76	5.84
EX-17	0.90	1.93	12.89	12.89	6.00	10.41

STORMSEWER DESIGN CALCULATIONS
OUTFALL 1 LINK HYDRAULIC CALCULATIONS

Link - ID	Link - Upstream Node	Link - Downstream Node	Link - Shape	Link - Number of Barrels	Link - Actual Length	Link - Manning's N Value	Link - Slope(%)	Link - Span (ft)	Link - Rise (ft)	Link - Invert Upstream (ft)	Link - Invert Downstream (ft)	Link - Actual Velocity Upstream (ft/s)	Link - Discharge (cfs)	Link - Capacity (cfs)	Link - HGL Upstream (ft)	Link - HGL Downstream (ft)
A-2	A-1	EX-2	Box	1	79.05	0.013	0.05	4	2	132.81	132.77	1.61	8.97	15.32	134.21	134.19
A-32	A-10	MH-1	Circular	1	225.95	0.013	0.10	n/a	3	131.39	131.16	3.24	18.72	21.09	133.68	133.47
A-35	A-11	MH-2	Circular	1	60.27	0.013	0.28	n/a	1.5	132.62	132.44	2.73	3.75	5.56	133.71	133.27
A-36	A-12	EX-8	Circular	1	49.88	0.013	0.28	n/a	1.5	132.24	132.09	2.79	4.00	5.54	133.37	132.92
A-40	A-13	MH-4	Box	1	147.27	0.013	0.13	6	3	130.05	129.86	4.98	68.29	72.92	132.34	132.12
A-39	A-14	MH-3	Circular	1	52.75	0.013	0.28	n/a	1.5	131.86	131.70	2.82	4.12	5.58	133.01	132.48
A-42	A-15	MH-4	Circular	1	52.88	0.013	0.28	n/a	1.5	131.52	131.36	2.82	4.12	5.57	132.67	132.14
A-43	A-16	MH-5	Circular	1	52.88	0.013	0.28	n/a	1.5	131.13	130.97	2.83	4.14	5.57	132.29	131.75
A-45	A-17	A-18	Box	1	646.00	0.013	0.10	6	4	127.67	127.02	4.60	86.34	97.97	130.80	130.24
A-46	A-18	A-19	Box	1	596.00	0.013	0.10	6	4	127.02	126.42	4.69	90.45	97.97	130.24	129.62
A-47	A-19	A-20	Box	1	696.00	0.013	0.10	6	4	126.42	125.72	4.88	93.51	97.97	129.62	128.89
A-4	A-2	EX-3	Box	1	82.07	0.013	0.07	4	2	132.66	132.60	2.91	17.21	18.43	134.14	134.07
A-48	A-20	A-27	Box	1	946.00	0.013	0.13	6	4	125.72	124.49	5.13	97.72	111.47	128.89	128.02
A-50	A-21	A-22	Circular	1	514.74	0.013	0.12	n/a	2.5	129.50	128.89	2.73	8.72	14.07	131.05	130.69
A-51	A-22	EX-9	Circular	1	126.07	0.013	0.29	n/a	2.5	128.89	128.51	5.30	20.06	22.17	130.69	130.03
A-14	A-23	EX-10	Box	1	224.31	0.013	0.11	6	3	128.18	127.94	3.34	24.70	66.71	129.41	129.19
A-16	A-24	EX-11	Box	1	132.16	0.013	0.10	6	3	127.47	127.33	3.47	25.12	65.98	128.68	128.55
A-18	A-25	EX-12	Box	1	112.71	0.013	0.09	6	3	127.16	127.06	3.80	26.16	60.23	128.31	127.90
A-20	A-26	EX-13	Box	1	211.39	0.013	1.06	6	3	125.29	123.00	1.83	27.67	212.16	127.82	127.79
A-49	A-27	A-28	Box	1	396.68	0.013	0.18	6	4	124.49	123.79	4.76	100.73	129.49	128.02	127.78
A-95	A-28	MH-13	Box	2	10.00	0.013	0.17	5	5	122.79	122.77	4.69	234.10	270.76	127.78	127.77
A-58	A-29	A-28	Circular	1	95.42	0.013	0.10	n/a	4	123.14	123.04	2.87	36.10	45.56	127.84	127.78
A-7	A-3	EX-5	Box	1	81.76	0.013	0.08	5	2	132.45	132.38	3.33	24.43	26.10	133.92	133.83
A-93	A-30	EX-14	Box	2	6.99	0.013	0.09	5	5	122.88	122.87	1.72	84.43	200.03	127.79	127.79
A-56	A-31	MH-8	Circular	1	295.52	0.013	0.10	n/a	4	123.74	123.44	2.54	31.85	45.46	128.14	127.99
A-23	A-32	EX-18	Circular	1	174.37	0.013	0.14	n/a	3.5	124.10	123.85	1.49	14.37	37.67	127.91	127.87
A-27	A-33	A-32	Circular	1	196.36	0.013	0.15	n/a	3.5	124.39	124.10	1.48	14.24	38.28	127.95	127.91
A-54	A-34	MH-7	Circular	1	259.57	0.013	0.10	n/a	3.5	124.23	123.97	2.52	24.20	31.60	128.43	128.28
A-52	A-35	MH-6	Circular	1	335.95	0.013	0.13	n/a	2.5	125.00	124.56	2.20	10.82	14.76	128.85	128.61
A-61	A-36	A-34	Circular	1	36.99	0.013	0.10	n/a	2.5	125.27	125.23	1.96	9.63	12.81	128.45	128.43
A-60	A-37	A-36	Circular	1	283.37	0.013	0.10	n/a	2	126.06	125.77	1.91	6.00	7.19	128.65	128.45
A-59	A-38	A-37	Circular	1	283.16	0.013	0.10	n/a	1.5	126.85	126.56	1.30	2.29	3.34	128.79	128.65
A-62	A-39	A-40	Circular	1	186.00	0.013	0.30	n/a	1.5	135.50	134.94	2.38	2.30	5.70	136.30	135.95
A-9	A-4	EX-6	Box	1	78.87	0.013	0.12	5	2	132.21	132.11	4.18	28.80	31.73	133.59	133.42
A-63	A-40	A-41	Circular	1	196.20	0.013	0.30	n/a	1.5	134.94	134.35	3.62	4.60	5.70	135.95	135.17
A-64	A-41	A-42	Circular	1	196.20	0.013	0.29	n/a	2	133.85	133.28	3.98	7.77	12.07	135.04	134.66
A-65	A-42	A-43	Circular	1	295.43	0.013	0.30	n/a	2	133.28	132.39	4.41	10.19	12.33	134.66	133.58
A-66	A-43	A-44	Circular	1	273.61	0.013	0.20	n/a	2.5	131.90	131.35	4.18	14.66	18.26	133.58	132.97
A-67	A-44	MH-9	Circular	1	41.00	0.013	0.13	n/a	3	130.85	130.79	4.08	21.73	24.36	132.97	132.90
A-69	A-45	A-46	Circular	1	396.00	0.013	0.15	n/a	3	129.96	129.37	4.21	21.93	25.62	132.03	131.28
A-72	A-46	MH-10	Circular	1	160.47	0.013	0.10	n/a	3.5	128.87	128.71	3.30	23.34	31.38	131.28	131.16
A-75	A-47	A-48	Circular	1	596.00	0.013	0.10	n/a	4	127.88	127.28	3.86	38.84	45.42	130.87	130.37
A-76	A-48	A-52	Circular	1	596.00	0.013	0.10	n/a	4	127.28	126.68	3.96	41.18	45.42	130.37	129.83
A-70	A-49	A-50	Circular	1	396.00	0.013	0.29	n/a	1.5	132.02	130.86	3.10	5.11	5.66	133.34	131.73
A-11	A-5	EX-7	Box	1	75.71	0.013	0.13	5	3	130.85	130.75	4.66	54.30	58.17	133.18	133.08
A-73	A-50	MH-10	Circular	1	50.00	0.013	0.28	n/a	2.5	129.86	129.71	5.44	19.78	21.62	131.60	131.22
A-71	A-51	A-50	Circular	1	396.00	0.013	0.29	n/a	1.5	132.02	130.86	3.12	5.15	5.66	133.35	131.73
A-78	A-52	A-53	Circular	1	596.00	0.013	0.15	n/a	4	126.68	125.79	4.37	46.39	55.32	129.83	129.26
A-80	A-53	E-8	Circular	1	414.73	0.013	0.15	n/a	4	125.79	125.17	4.46	51.58	55.27	129.26	128.80
A-82	A-54	A-59	Box	1	436.58	0.013	0.09	5	4	123.95	123.57	2.86	57.28	72.03	128.28	128.03

STORMSEWER DESIGN CALCULATIONS
OUTFALL 1 LINK HYDRAULIC CALCULATIONS

Link - ID	Link - Upstream Node	Link - Downstream Node	Link - Shape	Link - Number of Barrels	Link - Actual Length	Link - Manning's N Value	Link - Slope(%)	Link - Span (ft)	Link - Rise (ft)	Link - Invert Upstream (ft)	Link - Invert Downstream (ft)	Link - Actual Velocity Upstream (ft/s)	Link - Discharge (cfs)	Link - Capacity (cfs)	Link - HGL Upstream (ft)	Link - HGL Downstream (ft)
A-88	A-55	MH-11	Circular	1	64.57	0.013	0.15	n/a	2.5	123.70	123.60	1.88	9.21	15.66	127.84	127.80
A-77	A-56	A-52	Circular	1	31.00	0.013	0.14	n/a	2.5	128.23	128.18	3.54	13.69	15.50	130.07	129.83
A-79	A-57	A-53	Circular	1	31.00	0.013	0.20	n/a	2	127.86	127.79	3.42	9.51	10.12	129.51	129.26
A-81	A-58	A-54	Circular	1	31.00	0.013	0.14	n/a	2.5	126.00	125.95	2.74	12.95	15.50	128.30	128.28
A-83	A-59	MH-11	Box	1	386.97	0.013	0.09	5	4	123.57	123.23	2.97	59.37	72.32	128.03	127.80
A-28	A-6	A-7	Circular	1	186.06	0.013	0.30	n/a	1.5	134.65	134.09	2.38	2.30	5.70	135.45	135.10
A-90	A-60	EX-15	Box	2	98.50	0.013	0.15	5	5	123.17	123.02	1.35	62.60	253.71	127.80	127.80
A-86	A-61	MH-12	Circular	1	359.08	0.013	0.20	n/a	2	125.69	124.97	2.41	7.57	10.07	128.68	128.27
A-84	A-62	A-63	Circular	1	296.20	0.013	0.29	n/a	1.5	127.50	126.62	1.83	3.24	5.69	129.25	128.97
A-85	A-63	A-61	Circular	1	146.18	0.013	0.29	n/a	1.5	126.62	126.18	2.59	4.58	5.69	128.97	128.68
A-29	A-7	A-8	Circular	1	196.07	0.013	0.30	n/a	1.5	134.09	133.50	3.62	4.60	5.70	135.10	134.42
A-30	A-8	A-9	Circular	1	196.25	0.013	0.20	n/a	2	133.00	132.61	3.74	8.91	9.98	134.42	133.89
A-31	A-9	A-10	Circular	1	214.51	0.013	0.10	n/a	2.5	132.11	131.89	3.03	11.33	13.02	133.89	133.68
A-80B	E-8	A-54	Circular	1	477.31	0.013	0.15	n/a	4	125.17	124.45	4.31	51.58	55.56	128.80	128.28
A-1	EX-1	A-1	Box	1	57.68	0.013	0.05	4	2	132.84	132.81	0.29	1.60	15.61	134.21	134.21
A-15	EX-10	A-24	Box	1	486.43	0.013	0.10	6	3	127.94	127.47	3.30	24.70	63.70	129.19	128.68
A-17	EX-11	A-25	Box	1	184.09	0.013	0.09	6	3	127.33	127.16	3.43	25.12	61.86	128.55	128.31
A-19	EX-12	A-26	Box	1	159.30	0.013	1.08	6	3	127.06	125.29	5.20	26.16	214.21	127.90	125.88
A-21	EX-13	EX-14	Box	1	30.87	0.013	0.37	6	3	123.00	122.87	1.54	27.67	125.63	127.79	127.79
A-94	EX-14	A-28	Box	2	51.03	0.013	0.15	5	5	122.87	122.79	2.16	106.15	252.88	127.79	127.78
A-91	EX-15	EX-19	Box	2	83.33	0.013	0.15	5	5	123.02	122.89	1.39	66.11	255.88	127.80	127.79
A-26	EX-16	EX-18	Circular	1	87.05	0.013	0.33	n/a	2	126.15	125.85	1.99	5.84	12.99	127.92	127.87
A-25	EX-17	EX-20	Circular	1	87.84	0.013	0.15	n/a	3	124.69	124.55	1.47	10.41	26.04	127.98	127.96
A-22	EX-18	EX-19	Circular	1	474.61	0.013	0.15	n/a	4	123.85	123.15	1.49	18.68	54.93	127.87	127.79
A-92	EX-19	A-30	Box	2	4.18	0.013	0.12	5	5	122.89	122.88	1.59	77.99	231.96	127.79	127.79
A-3	EX-2	A-2	Box	1	213.01	0.013	0.05	4	2	132.77	132.66	1.59	8.97	15.71	134.19	134.14
A-24	EX-20	A-33	Circular	1	101.71	0.013	0.15	n/a	3.5	124.55	124.39	1.09	10.41	39.14	127.96	127.95
A-5	EX-3	EX-4	Box	1	266.90	0.013	0.04	5	2	132.60	132.48	2.35	17.21	19.22	134.07	133.94
A-6	EX-4	A-3	Box	1	39.11	0.013	0.07	5	2	132.48	132.45	2.37	17.21	24.10	133.94	133.92
A-8	EX-5	A-4	Box	1	211.21	0.013	0.08	5	2	132.38	132.21	3.37	24.43	25.67	133.83	133.59
A-10	EX-6	MH-2	Box	1	169.21	0.013	0.10	5	3	131.11	130.94	3.86	44.61	51.45	133.42	133.27
A-12	EX-7	EX-8	Box	1	119.37	0.013	0.13	5	3	130.75	130.59	4.67	54.30	59.15	133.08	132.92
A-37	EX-8	MH-3	Box	1	294.68	0.013	0.13	5	3	130.59	130.20	4.83	56.16	59.35	132.92	132.48
A-13	EX-9	A-23	Box	1	347.53	0.013	0.09	6	3	128.51	128.18	2.90	20.06	63.04	129.66	129.41
A-33	MH-1	EX-6	Circular	1	50.14	0.013	0.09	n/a	3	131.16	131.11	3.20	18.72	20.27	133.47	133.42
A-74	MH-10	A-47	Circular	1	331.61	0.013	0.10	n/a	4	128.21	127.88	3.88	38.50	45.04	131.16	130.87
A-89	MH-11	A-60	Box	2	40.00	0.013	0.14	5	5	123.23	123.17	1.35	61.65	244.91	127.80	127.80
A-87	MH-12	A-55	Circular	1	383.99	0.013	0.20	n/a	2	124.97	124.20	2.41	7.57	10.08	128.27	127.84
A-34	MH-2	A-5	Box	1	89.59	0.013	0.10	5	3	130.94	130.85	4.00	46.61	50.93	133.27	133.18
A-38	MH-3	A-13	Box	1	144.36	0.013	0.10	6	3	130.20	130.05	4.20	57.40	65.42	132.48	132.34
A-41	MH-4	MH-5	Box	1	296.00	0.013	0.13	6	3	129.86	129.47	5.18	70.29	74.19	132.12	131.61
A-44	MH-5	A-17	Box	1	444.74	0.013	0.18	6	3	129.47	128.67	5.55	71.12	86.88	131.61	130.80
A-53	MH-6	A-34	Circular	1	255.13	0.013	0.13	n/a	2.5	124.56	124.23	2.20	10.82	14.64	128.61	128.43
A-55	MH-7	A-31	Circular	1	231.72	0.013	0.10	n/a	3.5	123.97	123.74	2.52	24.20	31.43	128.28	128.14
A-57	MH-8	A-29	Circular	1	295.67	0.013	0.10	n/a	4	123.44	123.14	2.54	31.85	45.45	127.99	127.84
A-68	MH-9	A-45	Circular	1	555.96	0.013	0.15	n/a	3	130.79	129.96	4.10	21.73	25.68	132.90	132.03

STORMSEWER DESIGN CALCULATIONS
OUTFALL 2 DRAINAGE AREA CALCULATIONS

DRAINAGE AREA ID	RUNOFF C	DRAINAGE AREA (ACRES)	TIME OF CONC.(MIN)	TIME USED (MIN)	INTENSITY	DISCHARGE (CFS)
B-1	0.65	0.35	7.90	10.00	6.76	1.52
B-10	0.78	2.02	6.97	10.00	6.76	10.59
B-11	0.63	0.44	7.05	10.00	6.76	1.84
B-12	0.90	0.72	6.93	10.00	6.76	4.41
B-13	0.90	1.31	8.88	10.00	6.76	7.98
B-14	0.90	2.27	11.64	11.64	6.31	12.86
B-15	0.90	1.55	10.85	10.85	6.52	9.08
B-16	0.90	0.18	3.88	10.00	6.76	1.09
B-17	0.90	0.20	4.17	10.00	6.76	1.22
B-18	0.90	0.19	4.10	10.00	6.76	1.15
B-19	0.86	0.18	4.02	10.00	6.76	1.06
B-2	0.81	0.52	6.76	10.00	6.76	2.81
B-20	0.66	0.60	6.02	10.00	6.76	2.68
B-21	0.66	0.96	8.52	10.00	6.76	4.28
B-22	0.67	0.84	7.48	10.00	6.76	3.80
B-23	0.66	0.69	7.02	10.00	6.76	3.11
B-24	0.69	1.18	6.50	10.00	6.76	5.46
B-25	0.68	0.68	7.21	10.00	6.76	3.11
B-26	0.57	0.73	13.80	13.80	5.80	2.42
B-27	0.68	1.58	7.90	10.00	6.76	7.25
B-28	0.68	0.70	6.93	10.00	6.76	3.20
B-29	0.69	1.77	8.14	10.00	6.76	8.22
B-3	0.38	4.38	9.57	10.00	6.76	11.38
B-30	0.69	1.94	8.14	10.00	6.76	8.99
B-31	0.35	1.31	6.89	10.00	6.76	3.11
B-32	0.66	2.33	10.29	10.29	6.68	10.21
B-33	0.59	0.53	6.71	10.00	6.76	2.12
B-34	0.90	0.78	6.67	10.00	6.76	4.74
B-35	0.90	2.36	15.60	15.60	5.44	11.57
B-36	0.64	3.11	14.95	14.95	5.56	11.03
B-37	0.65	2.01	10.36	10.36	6.66	8.64
B-38	0.66	1.74	12.83	12.83	6.02	6.92
B-39	0.66	2.15	11.81	11.81	6.26	8.86
B-4	0.74	2.78	10.07	10.07	6.74	13.75
B-40	0.68	1.41	10.71	10.71	6.56	6.25
B-41	0.67	1.83	12.90	12.90	6.00	7.40
B-42	0.68	2.30	10.95	10.95	6.49	10.06
B-43	0.79	2.59	14.30	14.30	5.69	11.63
B-44	0.68	1.17	9.31	10.00	6.76	5.32
B-45	0.68	1.52	7.74	10.00	6.76	6.97
B-46	0.79	1.55	6.16	10.00	6.76	8.29
B-47	0.38	4.64	19.90	19.90	4.76	8.33
B-48	0.90	0.32	5.48	10.00	6.76	1.96
B-49	0.90	0.59	8.79	10.00	6.76	3.59
B-5	0.90	0.42	6.40	10.00	6.76	2.54
B-50	0.90	0.59	8.79	10.00	6.76	3.57
B-51	0.90	0.59	8.79	10.00	6.76	3.56
B-52	0.90	0.60	8.79	10.00	6.76	3.67
B-53	0.90	0.44	7.19	10.00	6.76	2.67

STORMSEWER DESIGN CALCULATIONS
OUTFALL 2 DRAINAGE AREA CALCULATIONS

B-54	0.38	3.69	20.43	20.43	4.69	6.51
B-55	0.48	10.83	19.01	19.01	4.88	25.61
B-56	0.63	1.81	9.34	10.00	6.76	7.77
B-57	0.69	1.55	9.33	10.00	6.76	7.26
B-58	0.84	0.47	5.60	10.00	6.76	2.66
B-59	0.73	0.46	4.93	10.00	6.76	2.29
B-6	0.90	0.62	8.95	10.00	6.76	3.74
B-60	0.71	2.10	8.69	10.00	6.76	10.07
B-61	0.70	0.70	6.50	10.00	6.76	3.34
B-62	0.73	1.59	11.14	11.14	6.44	7.47
B-63	0.69	1.94	12.76	12.76	6.03	8.04
B-64	0.69	3.43	13.05	13.05	5.96	14.15
B-65	0.77	0.92	4.83	10.00	6.76	4.80
B-7	0.90	0.36	6.40	10.00	6.76	2.19
B-8	0.90	0.34	6.17	10.00	6.76	2.08
B-9	0.61	0.72	5.76	10.00	6.76	2.99
C-1	0.76	1.28	11.90	11.90	6.24	6.03
C-2	0.79	1.15	11.43	11.43	6.36	5.74

STORMSEWER DESIGN CALCULATIONS
OUTFALL 2 LINK HYDRAULIC CALCULATIONS

Link - ID	Link - Upstream Node	Link - Downstream Node	Link - Shape	Link - Number of Barrels	Link - Actual Length	Link - Manning's N Value	Link - Slope(%)	Link - Span (ft)	Link - Rise (ft)	Link - Invert Upstream (ft)	Link - Invert Downstream (ft)	Link - Actual Velocity Upstream (ft/s)	Link - Discharge (cfs)	Link - Capacity (cfs)	Link - HGL Upstream (ft)	Link - HGL Downstream (ft)
B-1	B-1	B-2	Circular	1	246.02	0.013	0.29	n/a	1.5	126.98	126.25	2.22	1.52	5.68	127.60	127.18
B-19	B-10	MH-17	Circular	1	238.88	0.013	0.29	n/a	2	124.50	123.80	3.60	10.59	12.15	126.27	124.97
B-24	B-11	MH-18	Circular	1	44.55	0.013	0.10	n/a	3	123.00	122.95	4.42	16.23	21.41	124.55	124.24
B-26	B-12	MH-19	Circular	1	53.22	0.013	0.28	n/a	1.5	122.85	122.69	2.90	4.41	5.56	124.05	123.50
B-28	B-13	MH-20	Circular	1	110.44	0.013	0.32	n/a	2	122.31	121.95	3.19	7.98	12.69	123.80	122.97
B-31	B-14	MH-22	Circular	1	78.38	0.013	0.21	n/a	2.5	120.51	120.34	2.88	12.86	18.63	122.64	122.58
B-34	B-15	MH-24	Circular	1	87.98	0.013	0.22	n/a	2	119.72	119.52	2.89	9.08	10.55	122.06	121.91
B-36	B-16	B-17	Circular	1	134.10	0.013	0.21	n/a	2	122.27	121.98	2.00	1.09	10.37	122.73	122.63
B-37	B-17	B-18	Circular	1	129.13	0.013	0.20	n/a	2	121.98	121.71	2.63	2.31	10.19	122.63	122.33
B-38	B-18	B-19	Circular	1	132.19	0.013	0.20	n/a	2.5	121.21	120.94	1.63	3.45	18.26	122.33	122.30
B-39	B-19	B-20	Circular	1	65.09	0.013	0.17	n/a	3	120.44	120.32	0.98	4.52	27.80	122.30	122.30
B-2	B-2	MH-14	Circular	1	21.89	0.013	0.27	n/a	1.5	126.25	126.18	3.78	4.33	5.46	127.18	126.98
B-40	B-20	B-21	Circular	1	145.31	0.013	0.14	n/a	3	120.32	120.11	1.46	7.20	25.01	122.30	122.28
B-41	B-21	MH-25	Circular	1	103.21	0.013	0.16	n/a	3	120.11	119.94	2.10	11.47	26.56	122.28	122.25
B-43	B-22	B-23	Circular	1	128.68	0.013	0.15	n/a	3.5	119.06	118.86	1.67	15.11	39.06	122.18	122.16
B-44	B-23	B-24	Circular	1	120.85	0.013	0.16	n/a	3.5	118.86	118.66	1.89	17.72	40.27	122.16	122.13
B-45	B-24	B-25	Circular	1	90.33	0.013	0.11	n/a	4	118.16	118.06	1.79	22.48	46.77	122.13	122.10
B-47	B-25	B-27	Circular	1	230.81	0.013	0.10	n/a	4	118.06	117.83	2.02	25.35	44.96	122.10	122.03
B-46	B-26	B-25	Circular	1	40.56	0.013	0.61	n/a	1.5	120.85	120.58	1.52	2.42	8.18	122.12	122.10
B-48	B-27	MH-26	Circular	1	67.21	0.013	0.10	n/a	4	117.83	117.76	2.42	30.38	45.04	122.03	122.00
B-50	B-28	MH-27	Circular	1	74.08	0.013	0.28	n/a	4	117.62	117.40	2.55	32.03	76.25	121.94	121.90
B-55	B-29	MH-29	Circular	1	104.51	0.013	0.14	n/a	4	117.50	117.35	2.86	35.98	53.41	121.91	121.84
B-3	B-3	MH-14	Circular	1	42.11	0.013	0.26	n/a	2	123.80	123.68	3.75	11.38	11.54	125.65	124.91
B-54	B-30	B-29	Circular	1	395.90	0.013	0.10	n/a	4	117.90	117.50	2.54	31.95	45.43	122.11	121.91
B-62	B-31	MH-28	Box	2	41.02	0.012	0.04	7	5	116.90	116.88	3.12	217.18	234.95	121.87	121.86
B-53	B-32	B-30	Circular	1	447.71	0.013	0.10	n/a	4	118.35	117.90	2.18	27.19	45.34	122.27	122.11
B-56	B-33	MH-30	Circular	1	309.78	0.013	0.30	n/a	2.5	120.74	119.80	0.91	2.12	22.45	121.94	121.93
B-63	B-34	B-31	Box	2	104.22	0.012	0.05	7	5	116.95	116.90	2.33	160.86	239.61	121.88	121.87
B-57	B-35	MH-30	Circular	1	116.47	0.013	0.21	n/a	3	119.55	119.30	1.90	11.57	30.38	121.96	121.93
B-52	B-36	B-32	Circular	1	635.00	0.013	0.10	n/a	3.5	118.98	118.35	2.23	21.43	31.59	122.56	122.27
B-5	B-37	B-38	Circular	1	695.93	0.013	0.10	n/a	3.5	121.75	121.06	3.41	23.77	31.59	124.13	123.59
B-6	B-38	B-39	Circular	1	345.63	0.013	0.10	n/a	3.5	121.06	120.71	3.70	27.56	31.83	123.59	123.25
B-7	B-39	B-40	Circular	1	145.93	0.013	0.10	n/a	4	120.21	120.06	3.30	33.85	45.44	123.25	123.16
B-22	B-4	B-5	Circular	1	83.78	0.013	0.15	n/a	2.5	124.75	124.62	3.55	13.75	15.79	126.59	126.41
B-8	B-40	MH-15	Circular	1	295.54	0.013	0.10	n/a	4	120.06	119.76	3.66	38.23	45.46	123.16	122.94
B-10	B-41	B-42	Circular	1	195.88	0.013	0.10	n/a	4	119.36	119.16	3.69	40.95	45.44	122.67	122.51
B-12	B-42	B-44	Circular	1	545.90	0.013	0.10	n/a	4.5	118.66	118.11	3.94	57.11	62.19	122.51	122.10
B-11	B-43	B-42	Circular	1	45.00	0.013	0.29	n/a	2	122.50	122.36	3.80	11.63	12.09	124.38	123.59
B-13	B-44	B-45	Circular	1	146.00	0.013	0.10	n/a	4.5	118.11	117.96	3.85	57.42	62.19	122.10	121.99
B-15	B-45	MH-16	Circular	1	89.01	0.013	0.14	n/a	4.5	117.96	117.83	4.43	66.57	73.52	121.99	121.90
B-14	B-46	B-45	Circular	1	45.00	0.013	0.20	n/a	2	121.00	120.90	3.24	8.29	10.22	122.52	121.99
B-87	B-47	MH-16	Box	1	103.15	0.013	0.09	5	5	117.12	117.02	4.03	97.51	101.30	121.97	121.90
B-93	B-48	B-57	Circular	1	65.59	0.013	0.29	n/a	1.5	122.45	122.25	2.31	1.96	5.63	123.18	122.85
B-81	B-49	MH-40	Circular	1	69.76	0.013	0.29	n/a	1.5	123.21	123.00	2.69	3.59	5.61	124.27	123.72
B-23	B-5	B-11	Circular	1	558.35	0.013	0.20	n/a	2.5	124.62	123.50	4.25	16.00	18.31	126.41	124.85
B-92	B-50	B-55	Circular	1	63.32	0.013	0.30	n/a	1.5	122.20	122.00	2.68	3.57	5.73	123.26	122.72
B-91	B-51	B-54	Circular	1	51.53	0.013	0.27	n/a	1.5	123.15	123.00	2.68	3.56	5.46	124.21	123.72
B-90	B-52	MH-42	Circular	1	44.28	0.013	0.27	n/a	1.5	124.38	124.25	2.71	3.67	5.45	125.46	124.98
B-88	B-53	MH-41	Circular	1	29.83	0.013	0.27	n/a	1.5	123.59	123.50	2.46	2.67	5.42	124.47	124.12
B-85	B-54	MH-42	Box	1	284.08	0.013	0.10	5	5	117.71	117.43	3.95	90.47	103.38	122.29	122.13

STORMSEWER DESIGN CALCULATIONS
OUTFALL 2 LINK HYDRAULIC CALCULATIONS

Link - ID	Link - Upstream Node	Link - Downstream Node	Link - Shape	Link - Number of Barrels	Link - Actual Length	Link - Manning's N Value	Link - Slope(%)	Link - Span (ft)	Link - Rise (ft)	Link - Invert Upstream (ft)	Link - Invert Downstream (ft)	Link - Actual Velocity Upstream (ft/s)	Link - Discharge (cfs)	Link - Capacity (cfs)	Link - HGL Upstream (ft)	Link - HGL Downstream (ft)
B-84	B-55	B-54	Box	1	245.44	0.013	0.10	5	5	117.96	117.71	3.76	83.77	104.98	122.42	122.29
B-83	B-56	B-55	Circular	1	234.64	0.013	0.10	n/a	4.5	118.19	117.96	3.68	58.30	61.05	122.61	122.42
B-79	B-57	MH-39	Circular	1	123.53	0.013	0.09	n/a	4.5	118.55	118.43	3.34	52.29	60.32	122.85	122.77
B-76	B-58	MH-37	Circular	1	26.20	0.013	0.07	n/a	4.5	118.70	118.68	2.99	46.41	50.61	122.93	122.92
B-75	B-59	B-58	Circular	1	97.07	0.013	0.10	n/a	4	118.80	118.70	3.58	44.93	45.18	123.03	122.93
B-21	B-6	MH-18	Circular	1	267.53	0.013	0.23	n/a	1.5	123.59	122.98	2.73	3.74	4.98	124.68	123.72
B-74	B-60	B-59	Circular	1	132.78	0.013	0.10	n/a	4	118.93	118.80	3.50	43.92	44.28	123.16	123.03
B-73	B-61	B-60	Circular	1	99.43	0.013	0.07	n/a	4	119.00	118.93	2.91	36.61	37.37	123.23	123.16
B-72	B-62	B-61	Circular	1	191.84	0.013	0.12	n/a	3.5	119.24	119.00	3.61	34.77	35.22	123.46	123.23
B-70	B-63	MH-36	Circular	1	92.25	0.013	0.09	n/a	3.5	119.37	119.28	3.01	28.93	30.77	123.58	123.50
B-68	B-64	MH-35	Circular	1	113.70	0.013	0.14	n/a	3	119.75	119.58	3.17	22.38	25.35	123.82	123.68
B-66	B-65	MH-34	Circular	1	169.43	0.013	0.10	n/a	2.5	120.51	120.34	1.79	8.80	12.84	123.94	123.86
B-16	B-7	B-8	Circular	1	196.00	0.013	0.10	n/a	1.5	126.81	126.61	1.92	2.19	3.32	127.73	127.57
B-17	B-8	B-9	Circular	1	196.16	0.013	0.31	n/a	1.5	126.61	126.00	3.60	4.27	5.80	127.57	126.79
B-18	B-9	MH-17	Circular	1	59.80	0.013	0.28	n/a	2	125.50	125.32	4.11	7.26	12.02	126.60	126.28
C-8	C-1	MH-45	Circular	1	205.71	0.013	0.76	n/a	2.5	120.69	119.10	2.69	11.51	35.72	122.73	122.59
C-1	C-2	C-1	Circular	1	153.92	0.013	0.20	n/a	2	121.00	120.69	1.92	5.74	10.02	122.81	122.73
B-4	MH-14	B-37	Circular	1	220.51	0.013	0.19	n/a	2.5	123.18	122.75	4.34	15.70	17.95	124.91	124.13
B-9	MH-15	B-41	Circular	1	395.21	0.013	0.10	n/a	4	119.76	119.36	3.57	38.23	45.47	122.94	122.67
B-64	MH-16	B-34	Box	2	148.81	0.012	0.05	7	5	117.02	116.95	2.35	160.57	238.59	121.90	121.88
B-20	MH-17	MH-18	Circular	1	219.24	0.013	0.14	n/a	4	120.80	120.48	2.32	17.85	54.38	123.16	123.11
B-25	MH-18	MH-19	Circular	1	194.54	0.013	0.15	n/a	4.5	119.98	119.69	2.98	35.18	75.16	123.11	123.04
B-27	MH-19	MH-20	Circular	1	201.31	0.013	0.12	n/a	4.5	119.69	119.44	2.99	38.03	68.62	123.04	122.97
B-29	MH-20	MH-21	Circular	1	380.54	0.013	0.13	n/a	4.5	119.44	118.96	3.27	43.67	69.48	122.97	122.80
B-30	MH-21	MH-22	Circular	1	538.05	0.013	0.11	n/a	4.5	118.96	118.34	3.02	43.67	66.51	122.80	122.58
B-32	MH-22	MH-23	Circular	1	505.68	0.013	0.12	n/a	4.5	118.34	117.73	3.17	49.25	68.03	122.58	122.29
B-33	MH-23	MH-24	Circular	1	601.28	0.013	0.12	n/a	4.5	117.73	117.02	3.10	49.25	67.35	122.29	121.91
B-35	MH-24	B-31	Circular	1	67.00	0.013	0.10	n/a	4.5	117.02	116.95	3.15	50.03	61.75	121.91	121.87
B-42	MH-25	B-22	Circular	1	256.29	0.013	0.15	n/a	3	119.94	119.56	1.97	11.47	25.49	122.25	122.18
B-49	MH-26	B-28	Circular	1	133.32	0.013	0.10	n/a	4	117.76	117.62	2.42	30.38	45.87	122.00	121.94
B-51	MH-27	MH-28	Circular	1	77.35	0.013	0.16	n/a	4	117.40	117.27	2.55	32.03	57.42	121.90	121.86
B-61	MH-28	MH-29	Box	2	39.45	0.012	0.07	7	5	116.88	116.85	3.46	240.79	292.92	121.86	121.84
B-60	MH-29	MH-32	Box	2	8.62	0.012	0.09	7	5	116.85	116.84	3.90	272.46	342.11	121.84	121.84
B-58	MH-30	MH-31	Circular	1	363.27	0.013	0.25	n/a	3.5	118.80	117.88	1.44	13.06	50.36	121.93	121.88
B-59	MH-31	B-31	Circular	1	60.08	0.013	0.09	n/a	3.5	117.88	117.82	1.36	13.06	30.79	121.88	121.87
B-65	MH-33	B-65	Circular	1	158.07	0.013	0.07	n/a	2	120.62	120.51	1.27	4.00	5.89	123.99	123.94
B-67	MH-34	B-64	Circular	1	87.77	0.013	0.10	n/a	2.5	120.34	120.25	1.79	8.80	12.85	123.86	123.82
B-69	MH-35	B-63	Circular	1	208.15	0.013	0.10	n/a	3.5	119.58	119.37	2.33	22.38	31.65	123.68	123.58
B-71	MH-36	B-62	Circular	1	40.83	0.013	0.09	n/a	3.5	119.28	119.24	3.01	28.93	30.05	123.50	123.46
B-77	MH-37	MH-38	Circular	1	85.68	0.013	0.09	n/a	4.5	118.68	118.60	2.99	46.41	58.73	122.92	122.88
B-78	MH-38	B-57	Circular	1	50.83	0.013	0.09	n/a	4.5	118.60	118.55	2.97	46.41	59.38	122.88	122.85
B-80	MH-39	MH-40	Circular	1	154.15	0.013	0.10	n/a	4.5	118.43	118.28	3.33	52.29	60.56	122.77	122.68
B-82	MH-40	B-56	Circular	1	91.34	0.013	0.09	n/a	4.5	118.28	118.19	3.37	53.31	60.42	122.68	122.61
B-86	MH-41	B-47	Box	1	85.64	0.013	0.10	5	5	117.21	117.12	3.78	90.64	105.07	122.01	121.97
B-89	MH-42	MH-41	Box	1	218.23	0.013	0.10	5	5	117.43	117.21	3.86	90.62	104.34	122.13	122.01
B-94	MH-45	B-36	Circular	1	100.07	0.013	0.12	n/a	3	119.10	118.98	1.63	11.51	22.65	122.59	122.56

STORMSEWER DESIGN CALCULATIONS
OUTFALL 3 DRAINAGE AREA CALCULATIONS

DRAINAGE AREA ID	RUNOFF C	DRAINAGE AREA (ACRES)	TIME OF CONC.(MIN)	TIME USED (MIN)	INTENSITY	DISCHARGE (CFS)
D-1	0.69	1.68	11.18	11.18	6.43	7.44
D-10	0.69	1.28	9.43	10.00	6.76	6.00
D-11	0.69	1.25	9.05	10.00	6.76	5.87
D-12	0.69	1.19	9.05	10.00	6.76	5.53
D-13	0.69	1.14	8.67	10.00	6.76	5.30
D-14	0.69	1.73	10.24	10.24	6.69	8.05
D-15	0.68	1.91	10.48	10.48	6.62	8.59
D-16	0.74	0.46	4.88	10.00	6.76	2.28
D-2	0.72	1.06	7.98	10.00	6.76	5.14
D-3	0.71	1.73	9.29	10.00	6.76	8.28
D-4	0.70	1.78	10.60	10.60	6.59	8.16
D-5	0.71	1.87	10.60	10.60	6.59	8.73
D-6	0.69	1.90	11.48	11.48	6.35	8.28
D-7	0.69	2.02	11.79	11.79	6.27	8.75
D-8	0.69	1.08	8.33	10.00	6.76	5.02
D-9	0.70	1.09	8.33	10.00	6.76	5.19

STORMSEWER DESIGN CALCULATIONS
OUTFALL 3 LINK HYDRAULIC CALCULATIONS

Link - ID	Link - Upstream Node	Link - Downstream Node	Link - Shape	Link - Number of Barrels	Link - Actual Length	Link - Manning's N Value	Link - Slope(%)	Link - Span (ft)	Link - Rise (ft)	Link - Invert Upstream (ft)	Link - Invert Downstream (ft)	Link - Actual Velocity Upstream (ft/s)	Link - Discharge (cfs)	Link - Capacity (cfs)	Link - HGL Upstream (ft)	Link - HGL Downstream (ft)
D-1	D-1	D-2	Circular	1	198.16	0.013	0.10	n/a	2.5	122.07	121.87	2.39	7.44	12.90	123.59	123.46
D-6	D-10	D-12	Circular	1	230.61	0.013	0.10	n/a	4	119.21	118.98	3.91	30.99	44.98	121.63	121.39
D-13	D-11	MH-43	Circular	1	28.14	0.013	0.03	n/a	5.5	114.92	114.91	1.31	30.82	59.23	120.29	120.28
D-7	D-12	D-14	Circular	1	291.25	0.013	0.10	n/a	4	118.98	118.69	4.32	34.05	45.02	121.39	120.93
D-16	D-13	D-15	Circular	1	288.54	0.013	0.03	n/a	6	114.33	114.24	1.19	33.42	74.28	120.26	120.24
D-8	D-14	D-15	Circular	1	82.00	0.013	0.11	n/a	4	118.69	118.60	5.33	38.56	46.47	120.93	120.45
D-17	D-15	D-17	Circular	1	167.57	0.013	0.03	n/a	6	114.24	114.19	2.63	74.22	72.72	120.24	120.19
D-18	D-16	D-17	Circular	1	90.51	0.013	0.23	n/a	2	121.57	121.36	0.77	2.28	10.78	123.37	123.36
D-2	D-2	D-4	Circular	1	293.05	0.013	0.13	n/a	2.5	121.87	121.50	3.55	11.70	14.48	123.46	122.65
D-9	D-3	D-5	Circular	1	294.36	0.013	0.10	n/a	4	118.52	118.22	1.39	8.28	45.55	120.44	120.42
D-3	D-4	D-6	Circular	1	338.19	0.013	0.10	n/a	4	120.00	119.66	2.73	18.20	45.28	122.09	121.95
D-10	D-5	D-7	Circular	1	336.52	0.013	0.10	n/a	4	118.22	117.88	2.32	16.41	45.39	120.42	120.32
D-4	D-6	D-8	Circular	1	200.56	0.013	0.10	n/a	4	119.66	119.46	3.25	24.26	44.92	121.95	121.82
D-11	D-7	D-9	Circular	1	201.63	0.013	0.18	n/a	5	115.88	115.52	1.29	23.74	108.97	120.32	120.31
D-5	D-8	D-10	Circular	1	246.39	0.013	0.10	n/a	4	119.46	119.21	3.55	27.42	45.39	121.82	121.63
D-12	D-9	D-11	Circular	1	243.58	0.013	0.04	n/a	5	115.52	115.42	1.42	27.54	52.34	120.31	120.29
D-14	MH-43	MH-44	Circular	1	41.65	0.013	0.00	n/a	4.5	111.73	111.73	1.94	30.82	6.22	120.28	120.27
D-15	MH-44	D-13	Circular	1	146.88	0.013	0.04	n/a	5.5	114.89	114.83	1.30	30.82	66.97	120.27	120.26

STORMSEWER DESIGN CALCULATIONS
OUTFALL 4 DRAINAGE AREA CALCULATIONS

DRAINAGE AREA ID	RUNOFF C	DRAINAGE AREA (ACRES)	TIME OF CONC.(MIN)	TIME USED (MIN)	INTENSITY	DISCHARGE (CFS)
C-10	0.72	1.20	8.10	10.00	6.76	5.85
C-11	0.69	2.73	10.00	10.00	6.76	12.72
C-12	0.70	2.19	10.00	10.00	6.76	10.34
C-13	0.71	2.78	10.22	10.22	6.70	13.24
C-14	0.70	1.95	8.79	10.00	6.76	9.26
C-3	0.70	2.76	10.00	10.00	6.76	13.02
C-4	0.72	2.19	8.81	10.00	6.76	10.68
C-5	0.69	2.73	10.00	10.00	6.76	12.84
C-6	0.71	2.37	9.40	10.00	6.76	11.31
C-7	0.71	1.44	7.98	10.00	6.76	6.92
C-8	0.72	1.21	7.26	10.00	6.76	5.88
C-9	0.71	1.29	9.52	10.00	6.76	6.23

STORMSEWER DESIGN CALCULATIONS
OUTFALL 4 LINK HYDRAULIC CALCULATIONS

Link - ID	Link - Upstream Node	Link - Downstream Node	Link - Shape	Link - Number of Barrels	Link - Actual Length	Link - Manning's N Value	Link - Slope(%)	Link - Span (ft)	Link - Rise (ft)	Link - Invert Upstream (ft)	Link - Invert Downstream (ft)	Link - Actual Velocity Upstream (ft/s)	Link - Discharge (cfs)	Link - Capacity (cfs)	Link - HGL Upstream (ft)	Link - HGL Downstream (ft)
C-5	C-10	C-12	Circular	1	496.01	0.013	0.10	n/a	3.5	117.86	117.36	3.14	21.21	31.82	120.17	119.86
C-13	C-11	C-13	Circular	1	549.84	0.013	0.10	n/a	4	116.36	115.81	4.17	50.57	45.27	120.05	119.45
C-6	C-12	C-14	Circular	1	549.95	0.013	0.12	n/a	3.5	117.36	116.70	3.82	28.15	34.73	119.86	119.33
C-14	C-13	C-14	Circular	1	82.00	0.013	0.13	n/a	4	115.81	115.70	4.75	57.06	51.37	119.45	119.33
C-7	C-14	C-15	Box	1	127.44	0.013	0.08	5	5	114.37	114.27	3.56	88.32	92.17	119.33	119.27
C-9	C-3	C-5	Circular	1	496.00	0.013	0.18	n/a	2.5	120.00	119.10	4.83	23.70	17.40	123.44	121.77
C-2	C-4	C-3	Circular	1	142.42	0.013	0.34	n/a	2.5	120.50	120.00	2.18	10.68	23.97	123.54	123.44
C-10	C-5	C-7	Circular	1	159.00	0.013	0.15	n/a	3	118.60	118.36	4.81	34.01	25.59	121.77	121.35
C-3	C-6	C-8	Circular	1	159.20	0.013	0.12	n/a	3	118.90	118.70	3.01	11.31	23.35	120.47	120.34
C-11	C-7	C-9	Circular	1	333.00	0.013	0.12	n/a	3.5	117.86	117.46	4.11	39.56	34.66	121.35	120.87
C-4	C-8	C-10	Circular	1	333.00	0.013	0.10	n/a	3.5	118.20	117.86	2.77	17.00	31.96	120.34	120.17
C-12	C-9	C-11	Circular	1	496.28	0.013	0.12	n/a	3.5	117.46	116.86	4.50	42.97	34.84	120.87	120.05

STORMSEWER DESIGN CALCULATIONS
OUTFALL 5 DRAINAGE AREA CALCULATIONS

DRAINAGE AREA ID	RUNOFF C	DRAINAGE AREA (ACRES)	TIME OF CONC.(MIN)	TIME USED (MIN)	INTENSITY	DISCHARGE (CFS)
A-1	0.73	1.72	10.00	10.00	6.76	8.46
A-10	0.72	1.54	10.00	10.00	6.76	7.42
A-11	0.69	2.90	10.00	10.00	6.76	13.58
A-12	0.59	1.57	10.00	10.00	6.76	6.28
A-13	0.73	5.02	10.00	10.00	6.76	24.79
A-14	0.66	0.70	10.00	10.00	6.76	3.09
A-15	0.73	4.04	10.00	10.00	6.76	19.91
A-16	0.76	1.60	10.00	10.00	6.76	8.25
A-17	0.76	3.36	10.00	10.00	6.76	17.24
A-18	0.76	4.13	10.00	10.00	6.76	21.17
A-19	0.73	3.36	10.00	10.00	6.76	16.51
A-2	0.79	2.02	10.00	10.00	6.76	10.77
A-3	0.77	1.99	10.00	10.00	6.76	10.33
A-4	0.69	4.97	10.00	10.00	6.76	23.33
A-5	0.68	3.87	10.00	10.00	6.76	17.86
A-6	0.69	1.85	10.00	10.00	6.76	8.70
A-7	0.67	4.64	10.00	10.00	6.76	20.98
A-8	0.75	3.12	10.00	10.00	6.76	15.76
A-9	0.69	3.10	10.00	10.00	6.76	14.42
MH-A3	0.62	42.55	10.00	10.00	6.76	179.12

STORMSEWER DESIGN CALCULATIONS
OUTFALL 5 LINK HYDRAULIC CALCULATIONS

Link - ID	Link - Upstream Node	Link - Downstream Node	Link - Shape	Link - Number of Barrels	Link - Actual Length	Link - Manning's N Value	Link - Slope(%)	Link - Span (ft)	Link - Rise (ft)	Link - Invert Upstream (ft)	Link - Invert Downstream (ft)	Link - Actual Velocity Upstream (ft/s)	Link - Discharge (cfs)	Link - Capacity (cfs)	Link - HGL Upstream (ft)	Link - HGL Downstream (ft)
A-1	A-1	MH-A1	Circular	1	132.03	0.013	0.15	n/a	2	120.76	120.56	3.26	8.46	8.76	122.30	121.89
A-10	A-10	A-12	Box	1	212.70	0.013	0.15	5	3	116.30	115.98	4.43	53.97	63.61	118.74	118.54
A-11	A-11	A-13	Box	1	520.58	0.013	0.15	5	3	116.44	115.65	4.67	58.43	63.61	118.94	118.43
A-12	A-12	MH-A3	Box	1	315.11	0.013	0.15	5	3	115.98	115.50	4.48	57.25	63.63	118.54	118.25
A-13	A-13	MH-A4	Box	1	266.77	0.013	0.15	6	3	115.65	115.25	4.40	73.22	79.69	118.43	118.25
A-14	A-14	MH-A5	Circular	1	377.56	0.013	0.15	n/a	2.5	116.52	115.95	2.35	10.50	15.88	118.66	118.45
A-15	A-15	MH-A4	Box	1	129.01	0.013	0.15	5	3	113.76	113.57	4.35	63.26	63.61	116.67	116.57
A-16	A-16	A-14	Circular	1	345.97	0.013	0.15	n/a	2	117.05	116.52	2.63	8.25	8.76	119.13	118.66
A-17	A-17	A-15	Box	1	395.59	0.013	0.15	5	3	114.36	113.76	3.86	48.91	63.61	116.90	116.67
A-18	A-18	A-17	Box	1	445.68	0.013	0.15	4	3	115.04	114.36	3.99	35.95	47.94	117.29	116.90
A-19	A-19	A-18	Circular	1	245.96	0.013	0.15	n/a	3	115.41	115.04	3.20	16.51	25.83	117.47	117.29
A-2	A-2	A-4	Circular	1	399.17	0.013	0.15	n/a	3	119.43	118.83	3.72	18.30	25.83	121.41	120.98
A-3	A-3	A-5	Circular	1	496.14	0.013	0.15	n/a	2.5	119.75	119.00	3.21	10.33	15.89	121.31	120.85
A-4	A-4	A-6	Box	1	521.73	0.013	0.15	4	3	118.83	118.04	4.40	37.85	47.95	120.98	120.31
A-5	A-5	A-7	Circular	1	395.69	0.013	0.15	n/a	3	118.50	117.90	4.29	25.47	25.83	120.85	120.17
A-6	A-6	A-8	Box	1	470.27	0.013	0.15	4	3	118.04	117.33	4.68	42.38	47.92	120.31	119.53
A-7	A-7	A-9	Box	1	596.31	0.013	0.15	4	3	117.90	117.00	4.60	41.78	47.94	120.17	119.28
A-8	A-8	A-10	Box	1	679.35	0.013	0.15	5	3	117.33	116.30	4.74	52.25	63.61	119.53	118.74
A-9	A-9	A-11	Box	1	370.79	0.013	0.15	5	3	117.00	116.44	4.40	50.17	63.61	119.28	118.94
MH-A1	MH-A1	A-2	Circular	1	78.25	0.013	0.15	n/a	2	120.56	120.43	3.81	8.46	8.76	121.89	121.47
MH-A3	MH-A3	MH-A5	Box	1	299.78	0.013	0.15	7	5	113.50	113.05	5.37	178.69	199.34	118.25	118.05

STORMSEWER DESIGN CALCULATIONS
OUTFALL 6 DRAINAGE AREA CALCULATIONS

DRAINAGE AREA ID	RUNOFF C	DRAINAGE AREA (ACRES)	TIME OF CONC.(MIN)	TIME USED (MIN)	INTENSITY	DISCHARGE (CFS)
AN-0	0.71	4.37	10.00	10.00	6.76	20.96
AS-0	0.83	2.31	10.00	10.00	6.76	12.89
AS-1	0.81	1.21	10.00	10.00	6.76	6.58
B-1	0.75	3.73	10.00	10.00	6.76	18.96
B-10	0.85	2.08	10.00	10.00	6.76	11.96
B-11	0.70	1.49	10.00	10.00	6.76	7.03
B-12	0.80	0.65	10.00	10.00	6.76	3.49
B-13	0.75	3.42	10.00	10.00	6.76	17.27
B-14	0.74	0.58	10.00	10.00	6.76	2.90
B-15	0.71	2.87	10.00	10.00	6.76	13.85
B-16	0.84	2.04	10.00	10.00	6.76	11.54
B-17	0.67	1.50	10.00	10.00	6.76	6.78
B-18	0.82	1.03	10.00	10.00	6.76	5.73
B-19	0.73	0.75	10.00	10.00	6.76	3.68
B-2	0.82	1.72	10.00	10.00	6.76	9.60
B-20	0.80	0.42	10.00	10.00	6.76	2.27
B-21	0.78	4.37	10.00	10.00	6.76	23.00
B-22	0.75	0.41	10.00	10.00	6.76	2.06
B-23	0.74	3.60	10.00	10.00	6.76	17.92
B-24	0.86	2.28	10.00	10.00	6.76	13.21
B-25	0.76	2.69	10.00	10.00	6.76	13.87
B-26	0.81	1.03	10.00	10.00	6.76	5.64
B-27	0.81	1.06	10.00	10.00	6.76	5.85
B-28	0.84	1.16	10.00	10.00	6.76	6.56
B-29	0.74	3.91	10.00	10.00	6.76	19.66
B-3	0.73	2.92	10.00	10.00	6.76	14.38
B-30	0.81	1.84	10.00	10.00	6.76	10.14
B-31	0.71	3.76	10.00	10.00	6.76	18.10
B-32	0.81	1.03	10.00	10.00	6.76	5.64
B-4	0.83	1.38	10.00	10.00	6.76	7.77
B-5	0.71	2.87	10.00	10.00	6.76	13.85
B-6	0.84	1.38	10.00	10.00	6.76	7.86
B-7	0.76	3.83	10.00	10.00	6.76	19.59
B-8	0.81	1.20	10.00	10.00	6.76	6.57
B-9	0.68	1.45	10.00	10.00	6.76	6.66

STORMSEWER DESIGN CALCULATIONS
OUTFALL 6 LINK HYDRAULIC CALCULATIONS

Link - ID	Link - Upstream Node	Link - Downstream Node	Link - Shape	Link - Number of Barrels	Link - Actual Length	Link - Manning's N Value	Link - Slope(%)	Link - Span (ft)	Link - Rise (ft)	Link - Invert Upstream (ft)	Link - Invert Downstream (ft)	Link - Actual Velocity Upstream (ft/s)	Link - Discharge (cfs)	Link - Capacity (cfs)	Link - HGL Upstream (ft)	Link - HGL Downstream (ft)
AN-0	AN-0	B-31	Circular	1	745.82	0.013	0.10	n/a	3	108.15	107.40	3.33	20.96	21.09	110.65	109.94
AS-0	AS-0	B-32	Circular	1	511.00	0.013	0.15	n/a	3	108.45	107.68	3.30	17.37	25.83	110.54	110.18
AS-1	AS-1	AS-0	Circular	1	501.00	0.013	0.15	n/a	2	110.21	109.45	2.99	6.58	8.76	111.53	110.54
B-1	B-1	B-3	Circular	1	423.21	0.013	0.10	n/a	3	110.50	110.08	3.42	18.96	21.09	112.70	112.25
B-10	B-10	B-12	Box	1	396.18	0.013	0.15	4	3	112.30	111.70	4.32	34.83	47.94	114.32	113.79
B-11	B-11	B-13	Box	1	195.62	0.013	0.10	5	4	107.58	107.38	3.76	59.05	77.43	110.72	110.60
B-12	B-12	B-14	Box	1	346.21	0.013	0.15	4	3	111.70	111.18	4.29	35.83	47.94	113.79	113.36
B-13	B-13	B-15	Box	1	496.14	0.013	0.10	5	4	107.38	106.88	4.36	70.09	77.62	110.60	110.14
B-14	B-14	B-16	Box	1	395.87	0.013	0.15	4	3	111.18	110.58	4.18	36.50	47.94	113.36	112.94
B-15	B-15	B-17	Box	1	196.00	0.013	0.10	5	4	106.88	106.68	4.64	75.78	77.55	110.14	109.95
B-16	B-16	B-18	Box	1	296.01	0.013	0.15	4	3	110.58	110.13	4.54	42.98	47.94	112.94	112.54
B-17	B-17	B-19	Box	1	346.58	0.013	0.10	6	4	106.68	106.33	4.02	78.85	97.97	109.95	109.74
B-18	B-18	B-20	Box	1	326.00	0.013	0.15	4	3	110.13	109.63	4.72	45.58	47.94	112.54	112.03
B-19	B-19	B-21	Box	1	145.62	0.013	0.10	6	4	106.33	106.18	3.96	81.30	97.97	109.74	109.66
B-2	B-2	B-4	Circular	1	396.00	0.013	0.15	n/a	2.5	114.83	114.23	3.18	9.60	15.89	116.30	115.66
B-20	B-20	B-22	Box	1	216.00	0.013	0.15	4	3	109.63	109.30	4.76	45.66	47.94	112.03	111.69
B-21	B-21	B-23	Box	1	596.12	0.013	0.10	6	4	106.18	105.58	4.41	92.16	97.97	109.66	109.24
B-22	B-22	B-24	Box	1	296.00	0.013	0.15	4	3	109.30	108.85	4.83	46.08	47.94	111.69	111.17
B-23	B-23	B-25	Box	1	295.33	0.013	0.10	7	4	105.58	105.28	3.83	98.35	118.87	109.24	109.12
B-24	B-24	B-26	Box	1	296.00	0.013	0.15	5	3	108.85	108.40	4.57	53.13	63.61	111.17	110.86
B-25	B-25	MH-B1	Box	1	274.78	0.013	0.10	7	4	105.28	105.00	3.87	104.12	118.87	109.12	109.00
B-26	B-26	B-27	Box	1	326.00	0.013	0.15	5	3	108.40	107.91	4.49	55.22	63.61	110.86	110.55
B-27	B-27	B-28	Box	1	286.00	0.013	0.15	5	3	107.91	107.47	4.33	57.26	63.61	110.55	110.32
B-28	B-28	MH-B2	Box	1	193.94	0.013	0.15	5	3	107.47	107.18	4.20	59.80	63.61	110.32	110.18
B-29	B-29	MH-B1	Box	1	268.06	0.013	0.10	4	4	105.85	105.58	3.02	46.51	57.84	109.69	109.58
B-3	B-3	B-5	Circular	1	295.97	0.013	0.10	n/a	3.5	109.58	109.28	3.86	30.41	31.82	112.25	111.93
B-30	B-30	MH-B2	Circular	1	188.41	0.013	0.15	n/a	3.5	106.47	106.18	2.87	27.17	38.97	109.80	109.68
B-31	B-31	B-29	Circular	1	549.81	0.013	0.10	n/a	4	106.40	105.85	2.86	33.61	45.42	109.94	109.69
B-32	B-32	B-30	Circular	1	469.65	0.013	0.15	n/a	3	107.68	106.97	3.28	20.66	25.83	110.18	109.80
B-4	B-4	B-6	Circular	1	246.00	0.013	0.15	n/a	3	113.73	113.35	3.31	15.98	25.83	115.66	115.46
B-5	B-5	B-7	Circular	1	396.00	0.013	0.10	n/a	4	108.78	108.38	3.84	40.80	45.42	111.93	111.60
B-6	B-6	B-8	Circular	1	345.98	0.013	0.15	n/a	3	113.35	112.83	4.18	22.25	25.83	115.46	114.93
B-7	B-7	B-9	Box	1	376.00	0.013	0.10	4	4	108.38	108.00	4.22	54.37	57.84	111.60	111.22
B-8	B-8	B-10	Box	1	345.90	0.013	0.15	3	3	112.83	112.30	4.21	26.63	32.89	114.93	114.32
B-9	B-9	B-11	Box	1	416.55	0.013	0.10	4	4	108.00	107.58	4.41	56.86	57.87	111.22	110.72

STORMSEWER DESIGN CALCULATIONS
OUTFALL 7-8: DRAINAGE AREA CALCULATIONS

DRAINAGE AREA ID	RUNOFF C	DRAINAGE AREA (ACRES)	TIME OF CONC.(MIN)	TIME USED (MIN)	INTENSITY	DISCHARGE (CFS)
A-R1	0.35	6.25	10.00	10.00	6.76	14.79
AN-1	0.71	4.66	6.96	10.00	6.76	22.50
AN-2	0.72	4.66	10.00	10.00	6.76	22.63
AN-3	0.76	3.57	10.00	10.00	6.76	18.29
AN-4	0.73	3.32	10.00	10.00	6.76	16.44
AN-5	0.73	3.46	10.00	10.00	6.76	17.17
AN-6	0.73	4.10	10.00	10.00	6.76	20.32
AN-7	0.73	7.04	10.00	10.00	6.76	34.91
AS-2	0.81	2.07	10.00	10.00	6.76	11.27
AS-3	0.82	2.41	10.00	10.00	6.76	13.44
AS-4	0.81	2.41	10.00	10.00	6.76	13.17
AS-5	0.84	2.03	10.00	10.00	6.76	11.54
AS-6	0.83	1.58	10.00	10.00	6.76	8.85
AS-7	0.81	2.24	10.00	10.00	6.76	12.21
AS-8	0.81	1.41	10.00	10.00	6.76	7.68
B-R2	0.35	1.70	10.00	10.00	6.76	4.02
BN-1	0.73	4.57	10.00	10.00	6.76	22.63
BN-2	0.73	3.78	10.00	10.00	6.76	18.71
BN-3	0.75	3.66	10.00	10.00	6.76	18.52
BN-4	0.74	3.60	10.00	10.00	6.76	17.92
BN-5	0.75	3.64	10.00	10.00	6.76	18.40
BN-6	0.72	6.11	10.00	10.00	6.76	29.79
BN-7	0.71	5.34	10.00	10.00	6.76	25.71
BN-8	0.71	3.05	10.00	10.00	6.76	14.68
BR-1	0.35	3.08	10.00	10.00	6.76	7.30
BS-1	0.83	1.76	10.00	10.00	6.76	9.82
BS-2	0.81	1.94	10.00	10.00	6.76	10.62
BS-3	0.82	2.03	10.00	10.00	6.76	11.22
BS-4	0.81	2.27	10.00	10.00	6.76	12.38
BS-5	0.80	1.55	10.00	10.00	6.76	8.40
BS-6	0.83	1.55	10.00	10.00	6.76	8.68
BS-7	0.79	1.58	10.00	10.00	6.76	8.44
BS-8	0.83	4.10	10.00	10.00	6.76	23.01
CN-1	0.73	6.96	10.00	10.00	6.76	34.27
CN-2	0.75	4.45	10.00	10.00	6.76	22.52
CN-3	0.76	7.42	10.00	10.00	6.76	37.88
CN-4	0.76	5.69	10.00	10.00	6.76	29.13
CN-5	0.75	8.98	10.00	10.00	6.76	45.71
CN-6	0.72	5.74	10.00	10.00	6.76	27.93
CN-7	0.72	5.59	10.00	10.00	6.76	27.34
CN-8	0.76	8.62	10.00	10.00	6.76	44.28
CS-1	0.73	3.63	10.00	10.00	6.76	17.78
CS-2	0.80	2.66	10.00	10.00	6.76	14.36
CS-3	0.74	2.53	10.00	10.00	6.76	12.67
CS-4	0.75	3.15	10.00	10.00	6.76	15.91
CS-5	0.71	3.42	10.00	10.00	6.76	16.30
CS-6	0.66	8.05	10.00	10.00	6.76	35.84
CS-7	0.64	8.93	10.00	10.00	6.76	38.87

STORMSEWER DESIGN CALCULATIONS
OUTFALL 7-8: DRAINAGE AREA CALCULATIONS

CS-8	0.63	7.49	10.00	10.00	6.76	32.07
CS-9	0.69	6.53	10.00	10.00	6.76	30.66
ML-03	0.79	13.96	10.00	10.00	6.76	74.29
ML-04	0.76	9.14	23.00	23.00	4.37	30.42
ML-05	0.94	6.64	35.65	35.65	3.32	20.76
SNT01	0.57	14.94	22.97	22.97	4.37	37.44
BW8-SE	0.85	15.61	11.66	11.66	6.30	83.84
BW8-SW	0.58	21.95	17.04	17.04	5.19	66.41

STORMSEWER DESIGN CALCULATIONS
OUTFALL 7-8: LINK HYDRAULIC CALCULATIONS

Link - ID	Link - Upstream Node	Link - Downstream Node	Link - Shape	Link - Number of Barrels	Link - Actual Length	Link - Manning's N Value	Link - Slope(%)	Link - Span (ft)	Link - Rise (ft)	Link - Invert Upstream (ft)	Link - Invert Downstream (ft)	Link - Actual Velocity Upstream (ft/s)	Link - Discharge (cfs)	Link - Capacity (cfs)	Link - HGL Upstream (ft)	Link - HGL Downstream (ft)
615	B-R2	BS-J4	Box	1	40.30	0.013	0.10	5	5	94.25	94.21	3.20	80.01	104.86	101.11	101.08
AN4	AN-1	AN-2	Circular	1	696.00	0.013	0.10	n/a	3.5	103.88	103.18	2.35	22.50	31.82	107.33	106.98
AN5	AN-2	AN-J3	Box	1	246.28	0.013	0.10	4	4	103.18	102.93	2.94	44.76	57.84	106.98	106.88
AN6	AN-J3	AN-3	Box	1	245.82	0.013	0.10	4	4	102.93	102.68	2.83	44.76	57.84	106.88	106.75
AN7	AN-3	AN-J4	Box	1	296.16	0.013	0.10	5	4	102.68	102.38	2.89	57.77	77.56	106.75	106.58
AN8	AN-J4	AN-4	Box	1	295.84	0.013	0.10	5	4	102.38	102.08	2.89	57.77	77.56	106.58	106.42
AN9	AN-4	AN-5	Box	1	395.57	0.013	0.10	5	4	102.08	101.68	3.33	66.58	77.56	106.42	106.12
AS5	AS-2	AS-J3	Circular	1	396.00	0.013	0.10	n/a	2.5	103.81	103.41	2.40	11.27	12.97	106.09	105.84
AS6	AS-J3	AS-3	Circular	1	396.00	0.013	0.10	n/a	2.5	103.41	103.01	2.32	11.27	12.97	105.84	105.55
AS7	AS-3	AS-J4	Circular	1	346.00	0.013	0.10	n/a	3.5	103.01	102.66	2.78	20.75	31.82	105.55	105.39
AS8	AS-J4	AS-4	Circular	1	346.00	0.013	0.10	n/a	3.5	102.66	102.31	2.58	20.75	31.82	105.39	105.25
AS9	AS-4	AS-J5	Circular	1	301.00	0.013	0.10	n/a	4	102.31	102.01	2.88	28.48	45.42	105.25	105.12
BN1	BN-J1	BN-1	Circular	1	269.86	0.013	0.10	n/a	4	99.64	99.36	2.82	34.00	45.42	103.31	103.18
BN2	BN-2	BN-J1	Circular	1	331.35	0.013	0.10	n/a	4	99.97	99.64	2.92	34.00	45.42	103.46	103.31
BN3	BN-J2	BN-2	Circular	1	220.65	0.013	0.10	n/a	3	100.20	99.97	2.62	18.52	21.09	103.64	103.46
BN4	BN-3	BN-J2	Circular	1	221.33	0.013	0.10	n/a	3	100.42	100.20	2.62	18.52	21.09	103.81	103.64
BN5	BN-4	BN-J3	Circular	1	245.67	0.013	0.10	n/a	3	95.56	95.31	2.54	17.92	21.09	101.98	101.80
BN6	BN-J3	BN-5	Circular	1	246.33	0.013	0.10	n/a	3	95.31	95.06	2.54	17.92	21.09	101.80	101.61
BN7	BN-5	BN-J4	Circular	1	395.64	0.013	0.10	n/a	4	95.06	94.66	2.61	32.75	45.42	101.61	101.41
BN8	BN-J4	BN-6	Circular	1	396.32	0.013	0.10	n/a	4	94.66	94.26	2.61	32.75	45.42	101.41	101.20
BN9	BN-6	BN-J5	Box	1	295.68	0.013	0.10	4	4	94.26	93.96	3.28	52.52	57.84	101.20	100.95
BS1	BS-J1	BS-1	Circular	1	271.00	0.013	0.10	n/a	3	100.56	100.29	2.73	19.28	21.09	103.89	103.66
BS2	BS-2	BS-J1	Circular	1	271.00	0.013	0.10	n/a	3	100.84	100.56	2.73	19.28	21.09	104.12	103.89
BS3	BS-J2	BS-2	Circular	1	271.00	0.013	0.10	n/a	2.5	101.11	100.84	2.29	11.22	12.97	104.33	104.12
BS4	BS-3	BS-J2	Circular	1	271.00	0.013	0.10	n/a	2.5	101.39	101.11	2.29	11.22	12.97	104.54	104.33
BS5	BS-4	BS-J3	Circular	1	246.00	0.013	0.10	n/a	2.5	95.73	95.48	2.52	12.38	12.97	102.27	102.04
BS6	BS-J3	BS-5	Circular	1	246.00	0.013	0.10	n/a	2.5	95.48	95.23	2.52	12.38	12.97	102.04	101.82
BS7	BS-5	BS-6	Circular	1	396.00	0.013	0.10	n/a	3	95.23	94.83	2.61	18.43	21.09	101.82	101.51
BS8	BS-6	BS-7	Circular	1	395.93	0.013	0.10	n/a	3.5	94.83	94.43	2.53	24.33	31.82	101.51	101.27
BS9	BS-7	BS-J4	Circular	1	220.99	0.013	0.10	n/a	3.5	94.43	94.21	3.06	29.45	31.46	101.27	101.08
CN1	CN-1	CN-J1	Box	1	434.38	0.013	0.10	8	5	92.54	92.10	4.62	184.73	192.69	99.75	99.34
CN2	CN-J1	CN-2	Box	1	434.18	0.013	0.10	8	5	92.10	91.66	4.62	184.73	192.69	99.34	98.94
CN3	CN-2	CN-J2	Box	1	395.70	0.013	0.10	8	5	91.66	91.26	4.68	187.10	192.69	98.94	98.56
CN4	CN-J2	CN-J3	Box	1	396.00	0.013	0.10	8	5	91.26	90.86	4.68	187.10	192.69	98.56	98.18
CN5	CN-J3	CN-3	Box	1	276.29	0.013	0.10	8	5	90.86	90.58	4.68	187.10	192.69	98.18	97.92
CN6	CN-3	CN-4	Box	1	316.22	0.013	0.10	10	5	90.58	90.26	5.04	251.74	254.07	97.92	97.60
CN7	CN-4	CN-J4	Box	1	396.00	0.013	0.10	9	6	90.26	89.86	4.84	261.35	288.84	97.60	97.28
CN8	CN-J4	CN-J5	Box	1	395.93	0.013	0.10	9	6	89.86	89.46	4.84	261.35	288.84	97.28	96.95
CN9	CN-J5	CN-5	Box	1	396.00	0.013	0.10	9	6	89.46	89.06	4.84	261.35	288.84	96.95	96.62
CS1	CS-1	CS-J1	Circular	1	245.96	0.013	0.10	n/a	3	95.44	95.19	2.52	17.78	21.09	99.37	99.19
CS2	CS-J1	CS-2	Circular	1	246.00	0.013	0.10	n/a	3	94.69	94.44	2.52	17.78	21.09	99.19	99.01
CS3	CS-2	CS-3	Circular	1	295.95	0.013	0.10	n/a	3.5	93.94	93.64	3.01	28.96	31.82	99.01	98.76
CS4	CS-3	CS-J2	Circular	1	345.98	0.013	0.10	n/a	4	93.64	93.29	3.05	38.34	45.16	98.76	98.51
CS5	CS-J2	CS-4	Circular	1	345.89	0.013	0.10	n/a	4	93.29	92.94	3.05	38.34	45.42	98.51	98.26
CS6	CS-4	CN-3	Box	1	357.73	0.013	0.10	5	4	92.94	92.58	3.78	75.50	77.37	98.26	97.92
CS7	CS-5	CS-J3	Circular	1	395.99	0.013	0.10	n/a	3	93.85	93.45	2.31	16.30	21.09	97.70	97.46
CS8	CS-J3	CS-J4	Circular	1	295.92	0.013	0.10	n/a	3	93.45	93.15	2.31	16.30	21.09	97.46	97.28
CS9	CS-J4	CS-6	Circular	1	296.00	0.013	0.10	n/a	3	93.15	92.85	2.31	16.30	21.09	97.28	97.10
OS1	SNT01	CS-4	Circular	1	293.79	0.013	0.10	n/a	4	93.24	92.94	2.98	37.44	45.42	98.47	98.26
OS2	ML-05	CS-4	Circular	1	504.23	0.013	0.10	n/a	3	93.45	92.94	2.94	20.76	21.09	98.76	98.26

STORMSEWER DESIGN CALCULATIONS
OUTFALL 7-8: LINK HYDRAULIC CALCULATIONS

Link - ID	Link - Upstream Node	Link - Downstream Node	Link - Shape	Link - Number of Barrels	Link - Actual Length	Link - Manning's N Value	Link - Slope(%)	Link - Span (ft)	Link - Rise (ft)	Link - Invert Upstream (ft)	Link - Invert Downstream (ft)	Link - Actual Velocity Upstream (ft/s)	Link - Discharge (cfs)	Link - Capacity (cfs)	Link - HGL Upstream (ft)	Link - HGL Downstream (ft)
OS3	BW8-SW	POND6A	Box	1	116.55	0.013	0.10	7	3	91.12	91.00	3.16	66.41	78.42	96.44	96.35
OS4	BW8-SE	CS-8	Circular	1	267.60	0.013	0.10	n/a	6	89.40	89.13	2.97	83.84	133.93	96.34	96.24
AN10	AN-5	AN-J5	Box	1	246.60	0.013	0.10	6	4	101.68	101.43	3.20	76.86	97.97	106.12	105.97
AN11	AN-J5	AN-6	Box	1	247.30	0.013	0.10	6	4	101.43	101.18	3.20	76.86	97.97	105.97	105.81
AN12	AN-6	AN-J6	Box	1	346.00	0.013	0.10	6	4	101.18	100.83	3.66	87.78	97.97	105.81	105.53
AN13	AN-J6	AN-J7	Box	1	270.89	0.013	0.10	6	4	100.83	100.55	3.66	87.78	97.97	105.53	105.31
AN14	AN-J7	AN-7	Box	1	231.39	0.013	0.10	6	4	100.55	100.32	3.66	87.78	97.97	105.31	105.12
AN15	AN-7	E127-02	Box	1	316.92	0.013	0.10	6	5	100.32	100.00	3.63	104.53	133.35	105.12	105.00
AS10	AS-J5	AS-5	Circular	1	301.00	0.013	0.10	n/a	4	102.01	101.70	2.71	28.48	45.42	105.12	105.01
AS11	AS-5	AS-J6	Circular	1	216.00	0.013	0.10	n/a	4	101.70	101.48	3.08	34.25	45.42	105.01	104.90
AS12	AS-J6	AS-6	Circular	1	216.00	0.013	0.10	n/a	4	101.48	101.26	3.00	34.25	45.42	104.90	104.79
AS13	AS-6	AS-J7	Circular	1	321.00	0.013	0.10	n/a	4	101.26	100.94	3.28	38.41	45.42	104.79	104.59
AS14	AS-J7	AS-7	Circular	1	321.00	0.013	0.10	n/a	4	100.94	100.61	3.19	38.41	45.42	104.59	104.40
AS15	AS-7	AS-8	Circular	1	376.00	0.013	0.10	n/a	4	100.61	100.23	3.53	43.41	45.42	104.40	104.10
AS16	AS-8	E127-03	Box	1	228.51	0.013	0.10	4	4	100.23	100.00	3.00	46.33	57.84	104.10	104.00
BN10	BN-J5	BN-7	Box	1	296.32	0.013	0.10	4	4	93.96	93.66	3.28	52.52	57.84	100.95	100.70
BN11	BN-7	BN-J6	Box	1	395.68	0.012	0.10	7	5	93.66	93.26	4.84	169.24	176.26	100.70	100.33
BN12	BN-J6	BN-8	Box	1	396.00	0.013	0.10	8	5	93.26	92.86	4.23	169.24	192.69	100.33	100.02
BN13	BN-8	CN-1	Box	1	319.44	0.013	0.10	8	5	92.86	92.54	4.45	178.17	191.66	100.02	99.75
BN14	BN-1	E127-02	Box	1	359.52	0.013	0.10	4	4	99.36	99.00	3.25	49.65	57.84	103.18	103.00
BS10	BS-J4	BS-8	Box	1	221.00	0.013	0.10	6	5	94.21	93.98	3.46	103.77	133.35	101.08	100.94
BS11	BS-1	E127-03	Circular	1	287.49	0.013	0.10	n/a	3.5	100.29	100.00	2.66	25.31	31.82	103.66	103.50
BS12	BS-8	BN-7	Box	1	315.53	0.013	0.10	6	5	93.98	93.66	3.87	116.23	133.35	100.94	100.70
BS13	POND-7B	ML-04	Circular	1	200.02	0.013	0.10	n/a	5	94.60	94.39	0.00	0.01	82.36	101.18	101.18
BS14	ML-04	B-R2	Box	1	132.33	0.013	0.10	5	5	94.39	94.25	3.14	78.43	104.86	101.18	101.11
CN10	CN-5	CN-J6	Box	1	345.96	0.013	0.10	9	6	89.06	88.71	4.96	267.93	288.84	96.62	96.32
CN11	CN-J6	CN-6	Box	1	245.97	0.013	0.10	9	6	88.71	88.46	4.96	267.93	288.84	96.32	96.10
CN12	CN-6	CN-J7	Box	1	295.99	0.013	0.10	9	6	88.46	88.16	5.06	273.07	288.84	96.10	95.83
CN13	CN-J7	CN-7	Box	2	296.00	0.013	0.10	7	6	88.16	87.86	4.09	343.43	418.03	95.83	95.63
CN14	CN-7	CN-J8	Box	2	133.61	0.013	0.09	7	6	87.86	87.73	4.17	350.04	406.30	95.63	95.53
CN15	CN-J8	CN-J9	Box	2	146.00	0.013	0.10	7	6	87.73	87.58	4.17	350.04	418.03	95.53	95.43
CN16	CN-J9	CN-J10	Box	2	146.00	0.013	0.10	7	6	87.58	87.43	4.17	350.04	418.03	95.43	95.32
CN17	CN-J10	CN-J11	Box	2	180.54	0.013	0.10	7	6	87.43	87.24	4.17	350.04	418.03	95.32	95.19
CN18	CN-J12	CN-J11	Box	1	161.16	0.013	0.10	9	6	87.41	87.24	2.94	158.55	288.84	95.24	95.19
CN19	CN-J13	CN-J12	Box	1	196.04	0.013	0.10	9	6	87.61	87.41	2.94	158.55	288.81	95.30	95.24
CN22	CN-8	CN-J15	Circular	1	241.69	0.013	0.12	n/a	4	90.00	89.70	3.52	44.28	49.76	95.69	95.46
CN23	CN-J11	E135-01	Box	2	58.06	0.013	0.10	8	8	87.24	87.18	3.30	419.32	734.47	95.19	95.18
CS10	CS-6	CS-J5	Circular	1	396.00	0.013	0.10	n/a	4	91.85	91.45	3.42	42.91	45.42	97.10	96.74
CS11	CS-J5	CS-J6	Circular	1	296.00	0.013	0.10	n/a	4	91.45	91.15	3.42	42.91	45.42	96.74	96.47
CS12	POND6A	CS-7	Box	1	123.90	0.013	0.10	8	4	90.82	90.69	3.20	102.34	140.13	96.35	96.28
CS13	CS-7	CN-J7	Box	1	520.02	0.013	0.10	8	4	90.68	90.16	4.04	129.30	140.13	96.28	95.83
CS14	CS-8	CS-J7	Circular	1	395.95	0.013	0.10	n/a	6	89.13	88.73	3.88	109.56	133.93	96.24	95.97
CS15	CS-9	CS-J7	Circular	1	295.94	0.013	0.10	n/a	3.5	91.53	91.23	3.19	30.66	31.82	96.25	95.97
CS16	CS-J7	CN-J15	Circular	1	531.43	0.013	0.10	n/a	6	88.73	88.20	4.62	130.53	133.24	95.97	95.46
BS-ML	ML-03	ML-04	Circular	1	819.64	0.013	0.10	n/a	5	95.21	94.39	3.78	74.29	82.36	101.86	101.18
Link616	CS-J6	POND6A	Circular	1	134.86	0.013	0.10	n/a	4	91.14	91.00	3.42	42.91	45.42	96.47	96.35
Link617	CN-J15	BW8DET	Box	1	128.34	0.013	0.10	6	6	88.13	88.00	4.40	158.55	170.52	95.46	95.34
Link618	BW8DET	CN-J13	Box	1	125.50	0.013	0.10	9	6	87.74	87.61	2.94	158.55	288.84	95.34	95.30

STORMSEWER DESIGN CALCULATIONS
OUTFALL 8A-8B: DRAINAGE AREA CALCULATIONS

DRAINAGE AREA ID	RUNOFF C	DRAINAGE AREA (ACRES)	TIME OF CONC.(MIN)	TIME USED (MIN)	INTENSITY	DISCHARGE (CFS)
A-1	0.90	0.30	10.00	10.00	6.76	1.83
A-2	0.90	0.34	10.00	10.00	6.76	2.10
B-1	0.63	1.71	10.00	10.00	6.76	7.31
B-1A	0.50	1.37	10.00	10.00	6.76	4.64
SD-2	0.35	0.51	10.00	10.00	6.76	1.20
BW-C1	0.63	6.52	12.70	12.70	6.05	24.95
BW-C3	0.69	1.81	10.00	10.00	6.76	8.47
BW-C4	0.90	0.56	10.00	10.00	6.76	3.41
BW-C5	0.80	0.36	10.00	10.00	6.76	1.95
BW-C7	0.90	1.41	10.00	10.00	6.76	8.57
BW-D1	0.78	5.24	11.69	11.69	6.29	25.61
BW-D3	0.73	2.85	10.00	10.00	6.76	13.98
BW-D4	0.80	3.53	10.00	10.00	6.76	19.03
BW-D6	0.81	0.75	10.00	10.00	6.76	4.14
CI-B9	0.50	1.23	10.00	10.00	6.76	4.17
CI-C7	0.57	2.03	10.00	10.00	6.76	7.84
CI-D9	0.90	0.38	10.00	10.00	6.76	2.29
CI-E5	0.90	0.43	10.00	10.00	6.76	2.62
CI-F2	0.90	0.73	10.00	10.00	6.76	4.43
SD-1A	0.35	0.69	10.00	10.00	6.76	1.64
CI-A12	0.81	1.64	10.00	10.00	6.76	8.97
CI-B12	0.90	0.20	10.00	10.00	6.76	1.23
CI-R11	0.63	0.84	10.00	10.00	6.76	3.60
DI-A10	0.67	1.70	10.00	10.00	6.76	7.66
DI-B10	0.35	1.00	10.00	10.00	6.76	2.37
DI-L24	0.85	1.39	10.00	10.00	6.76	8.02
DI-R12	0.82	1.42	10.00	10.00	6.76	7.89
POND6F	0.78	1.43	10.00	10.00	6.76	7.55
POND6H	0.68	1.40	10.00	10.00	6.76	6.44
OFF-B12	0.64	10.97	20.70	20.70	4.65	32.41

STORMSEWER DESIGN CALCULATIONS
OUTFALL 8A-8B: LINK HYDRAULIC CALCULATIONS

Link - ID	Link - Upstream Node	Link - Downstream Node	Link - Shape	Link - Number of Barrels	Link - Actual Length	Link - Manning's N Value	Link - Slope(%)	Link - Span (ft)	Link - Rise (ft)	Link - Invert Upstream (ft)	Link - Invert Downstream (ft)	Link - Actual Velocity Upstream (ft/s)	Link - Discharge (cfs)	Link - Capacity (cfs)	Link - HGL Upstream (ft)	Link - HGL Downstream (ft)
L-A2	A-2	POND6F-2	Circular	1	33.28	0.013	0.48	n/a	2.0	97.99	97.81	2.44	2.1	16.91	98.63	98.3
L-B1	B-1	SD-3	Box	1	29.24	0.013	0.09	3.0	2.0	98.53	98.50	1.99	11.92	18.35	100.77	100.74
L-B9	CI-B9	POND6F-1	Box	1	178.84	0.013	0.18	4.0	2.0	99.41	99.09	2.13	5.91	37.75	100.1	99.5
L-C2	BW-C1	BW-C3	Box	1	227.17	0.013	0.10	3.0	3.0	97.66	97.43	2.77	24.95	32.05	100.78	100.58
L-C3	BW-C3	BW-J1	Box	1	122.18	0.013	0.10	4.0	3.0	97.43	97.30	2.6	31.17	49.09	100.58	100.5
L-C4	BW-C4	POND6F-3	Circular	1	35.25	0.013	0.48	n/a	2.0	97.99	97.80	2.6	3.41	16.93	98.86	98.43
L-C5	BW-C5	POND6H-2	Circular	1	92.94	0.013	0.32	n/a	2.0	97.99	97.68	2.42	1.95	13.76	98.6	98.17
L-C7	CI-C7	BW-J3	Box	1	86.77	0.013	0.37	4.0	2.0	99.00	98.66	2.3	7.84	55.22	99.85	99.43
L-D2	BW-D1	BW-D3	Box	1	390.95	0.013	0.29	3.0	3.0	98.40	97.26	3.83	25.61	54.6	100.63	100.29
L-D3	BW-D3	POND6H-NB2	Box	1	92.85	0.013	0.11	4.0	3.0	97.26	97.16	3.06	36.75	49.66	100.29	100.16
L-D4	BW-D4	POND-6HNB1	Box	1	108	0.013	1.12	3.0	2.0	98.49	97.26	3.48	19.03	64.6	100.31	98.07
L-D6	BW-D6	CI-R11	Circular	1	215.30	0.013	0.10	n/a	2.00	97.80	97.58	1.964	4.138	7.708	99.072	98.959
L-J1	BW-J1	POND6H-1	Box	1	150.59	0.013	0.10	7.0	3.0	97.30	97.15	3.55	74.6	102.21	100.5	100.15
L-J3	BW-J3	L-21	Box	1	55.19	0.013	0.49	6.0	4.0	95.69	95.41	0.62	14.03	271.42	99.43	99.41
SD-3	SD-3	BW-J1	Box	1	57.01	0.013	0.10	7.0	3.0	97.36	97.30	2.48	52.04	102.23	100.74	100.5
L-B1A	B-1A	B-1	Circular	1	15.16	0.013	0.78	n/a	2.0	98.68	98.53	1.48	4.64	21.53	100.78	100.77
L-SD2	SD-2	SD-3	Box	1	141.46	0.013	0.10	7.0	3.0	97.51	97.36	2.27	47.68	104.68	100.81	100.74
L-POND6H	POND6H	BW-J3	Box	1	58.28	0.013	0.24	6.0	4.0	96.39	96.24	0.35	6.44	190.37	99.43	99.43
-POND6F-OU	POND6F	POND6H-IN	Box	1	106.13	0.013	0.10	4.0	3.0	97.60	97.49	2.15	7.55	48.78	98.48	97.97

STORMSEWER DESIGN CALCULATIONS
OUTFALL 9 & 10 DRAINAGE AREA CALCULATIONS

DRAINAGE AREA ID	RUNOFF C	DRAINAGE AREA (ACRES)	TIME OF CONC.(MIN)	TIME USED (MIN)	INTENSITY	DISCHARGE (CFS)
A-12	0.77	3.05	10.00	10.00	6.76	15.81
A-13	0.69	2.86	14.53	14.53	5.65	11.17
A-14	0.74	1.88	10.00	10.00	6.76	9.32
A-15	0.74	1.11	10.00	10.00	6.76	5.56
A-17	0.74	1.29	10.00	10.00	6.76	6.46
A-17OFF	0.65	5.84	15.48	15.48	5.46	20.73
A-18	0.74	1.31	10.00	10.00	6.76	6.55
A-19	0.74	1.43	10.00	10.00	6.76	7.13
A-2	0.76	1.92	10.00	10.00	6.76	9.88
A-20	0.74	0.96	10.00	10.00	6.76	4.80
A-21	0.74	0.89	10.00	10.00	6.76	4.46
A-22	0.74	1.84	10.00	10.00	6.76	9.22
A-23	0.76	1.25	10.00	10.00	6.76	6.41
A-23OFF	0.59	28.35	26.64	26.64	4.00	66.82
A-24	0.52	1.10	26.64	26.64	4.00	2.29
A-25	0.72	1.45	10.00	10.00	6.76	7.05
A-26	0.72	1.66	10.00	10.00	6.76	8.05
A-27	0.73	2.08	10.00	10.00	6.76	10.22
A-27OFF	0.35	2.80	11.48	11.48	6.35	6.23
A-28	0.72	1.33	10.00	10.00	6.76	6.53
A-29	0.72	1.28	10.00	10.00	6.76	6.24
A-3	0.75	0.83	10.00	10.00	6.76	4.20
A-30	0.58	6.83	15.31	15.31	5.50	21.60
A-31	0.77	2.42	10.00	10.00	6.76	12.69
A-32	0.84	0.68	10.00	10.00	6.76	3.88
A-34	0.79	2.67	15.40	15.41	5.48	11.54
A-35	0.74	1.14	10.00	10.00	6.76	5.74
A-35OFF	0.66	8.52	17.17	17.17	5.17	29.05
A-36	0.74	1.12	10.00	10.00	6.76	5.61
A-37	0.74	1.13	10.00	10.00	6.76	5.61
A-38	0.74	1.12	10.00	10.00	6.76	5.57
A-39	0.77	1.31	10.00	10.00	6.76	6.80
A-4	0.75	1.59	10.00	10.00	6.76	8.04
A-40	0.77	1.12	10.00	10.00	6.76	5.86
A-41	0.74	1.12	10.00	10.00	6.76	5.58
A-42	0.74	0.94	10.00	10.00	6.76	4.65
A-43	0.81	1.97	10.00	10.00	6.76	10.71
A-44	0.66	7.27	10.00	10.00	6.76	32.50
A-5	0.74	1.36	10.00	10.00	6.76	6.81
A-50	0.90	0.29	10.00	10.00	6.76	1.76
A-51	0.74	1.99	10.00	10.00	6.76	9.89
A-5OFF	0.59	29.23	24.86	24.86	4.17	72.18
A-6	0.74	1.37	10.00	10.00	6.76	6.82
A-7	0.74	1.36	10.00	10.00	6.76	6.82
A-8	0.58	11.90	31.25	31.25	3.62	24.93
A-9	0.80	2.84	10.00	10.00	6.76	15.29
AA-1	0.87	1.47	10.00	10.00	6.76	8.63
AA-10	0.68	1.31	10.00	10.00	6.76	6.01
AA-11	0.79	1.95	10.00	10.00	6.76	10.47

STORMSEWER DESIGN CALCULATIONS
OUTFALL 9 & 10 DRAINAGE AREA CALCULATIONS

AA-12	0.71	1.13	10.00	10.00	6.76	5.44
AA-13	0.71	1.13	10.00	10.00	6.76	5.44
AA-14	0.71	0.75	10.00	10.00	6.76	3.61
AA-15	0.72	0.94	10.00	10.00	6.76	4.55
AA-16	0.72	1.13	10.00	10.00	6.76	5.44
AA-17	0.72	0.94	10.00	10.00	6.76	4.55
AA-18	0.73	0.75	10.00	10.00	6.76	3.68
AA-2	0.74	0.70	10.00	10.00	6.76	3.53
AA-3	0.71	1.11	10.00	10.00	6.76	5.29
AA-4	0.79	1.47	10.00	10.00	6.76	7.86
AA-5	0.74	0.93	10.00	10.00	6.76	4.69
AA-54	0.78	2.04	10.00	10.00	6.76	10.77
AA-55	0.69	1.43	10.00	10.00	6.76	6.64
AA-6	0.74	1.10	10.00	10.00	6.76	5.52
AA-7	0.73	1.44	10.00	10.00	6.76	7.06
AA-8	0.72	1.85	10.00	10.00	6.76	9.00
AA-9	0.72	1.16	10.00	10.00	6.76	5.62

STORMSEWER DESIGN CALCULATIONS
OUTFALL 9 & 10 LINK HYDRAULIC CALCULATIONS

Link - ID	Link - Upstream Node	Link - Downstream Node	Link - Shape	Link - Number of Barrels	Link - Actual Length	Link - Manning's N Value	Link - Slope(%)	Link - Span (ft)	Link - Rise (ft)	Link - Invert Upstream (ft)	Link - Invert Downstream (ft)	Link - Actual Velocity Upstream (ft/s)	Link - Discharge (cfs)	Link - Capacity (cfs)	Link - HGL Upstream (ft)	Link - HGL Downstream (ft)
L-A-12	A-12	A-13	Box	1	201.56	0.013	0.20	6	4	88.00	87.59	6.55	123.74	138.53	91.15	90.81
L-A-13	A-13	A-14	Box	1	96.62	0.013	0.20	6	4	87.59	87.39	6.70	129.40	138.47	90.81	90.61
L-A-14	A-14	A-15	Box	1	146.06	0.013	0.20	6	4	87.39	87.09	6.92	133.56	138.52	90.61	90.31
L-A-15	A-15	A-17	Box	1	320.37	0.013	0.20	6	4	87.09	86.44	7.02	135.46	138.57	90.31	89.58
L-A-17	A-17	A-18	Box	1	172.84	0.013	0.20	7	4	86.44	86.09	6.81	149.63	168.18	89.58	89.31
L-A-17OFF	A-17OFF	A-17	Box	1	11.00	0.013	0.20	4	4	86.47	86.44	1.67	20.73	81.79	89.58	89.58
L-A-18	A-18	A-19	Box	1	188.55	0.013	0.20	7	4	86.09	85.70	6.73	151.73	168.08	89.31	89.03
L-A-19	A-19	A-20	Box	1	125.54	0.013	0.20	7	4	85.70	85.44	6.61	153.96	168.08	89.03	88.86
L-A-2	A-2	A-3	Circular	1	94.60	0.013	0.20	n/a	2	95.80	95.60	3.48	9.88	10.11	97.49	96.72
L-A-20	A-20	A-21	Box	1	116.46	0.013	0.20	7	4	85.44	85.20	6.51	155.46	168.13	88.86	88.71
L-A-21	A-21	A-22	Box	1	152.16	0.013	0.20	7	4	85.20	84.89	6.39	156.85	168.01	88.71	88.54
L-A-22	A-22	A-23	Box	1	88.91	0.013	0.20	7	4	84.89	84.70	6.28	160.31	168.19	88.54	88.44
L-A-23	A-23	A-24	Box	1	105.98	0.012	0.20	7	5	83.70	83.48	6.56	217.49	249.29	88.44	88.36
L-A-23OFF	A-23OFF	A-23	Circular	1	11.00	0.013	0.28	n/a	3	84.95	84.91	9.45	66.82	35.29	90.48	88.44
L-A-24OFF	A-24	A-OUT2	Box	1	90.12	0.012	0.20	7	5	83.48	83.30	6.40	218.50	249.11	88.36	88.30
L-A-25	A-25	A-26	Circular	1	171.50	0.013	0.25	n/a	3.5	91.78	91.35	5.44	38.75	50.32	94.21	93.90
L-A-26	A-26	A-27	Circular	1	120.22	0.013	0.25	n/a	3.5	91.35	91.03	6.06	45.63	50.34	93.90	93.55
L-A-27	A-27	A-28	Circular	1	96.64	0.013	0.25	n/a	4	90.53	90.28	5.93	60.32	71.88	93.55	93.37
L-A-27OFF	A-27OFF	A-27	Circular	1	11.01	0.013	0.25	n/a	2	92.57	92.53	2.94	6.23	11.38	93.85	93.55
L-A-28	A-28	A-29	Circular	1	146.67	0.013	0.25	n/a	4	90.28	89.91	6.32	65.72	71.85	93.37	93.04
L-A-29	A-29	A-30	Circular	1	234.42	0.013	0.25	n/a	4	89.91	89.31	6.67	70.38	71.82	93.04	92.35
L-A-3	A-3	A-4	Circular	1	195.17	0.013	0.20	n/a	2.5	95.10	94.70	4.25	13.79	18.34	96.67	95.95
L-A-30	A-30	A-31	Box	1	182.43	0.013	0.25	4	4	89.31	88.84	6.92	84.33	91.44	92.35	91.63
L-A-31	A-31	A-32	Box	1	118.24	0.013	0.25	5	4	88.84	88.54	6.69	93.12	122.70	91.63	91.36
L-A-32	A-32	A-34	Box	1	197.60	0.013	0.25	5	4	88.54	88.03	6.74	95.26	122.63	91.36	90.93
L-A-34	A-34	A-35	Box	1	146.28	0.013	0.25	5	4	88.03	87.66	7.24	104.83	122.68	90.93	90.42
L-A-35	A-35	A-36	Box	1	295.38	0.013	0.25	5	5	86.66	85.91	7.21	135.61	165.75	90.42	89.81
L-A-35OFF	A-35OFF	A-35	Circular	1	44.32	0.013	0.25	n/a	3	88.78	88.66	4.40	29.05	33.35	91.42	90.42
L-A-36	A-36	A-37	Box	1	146.75	0.013	0.25	5	5	85.91	85.53	7.02	136.98	165.83	89.81	89.54
L-A-37	A-37	A-38	Box	1	145.75	0.013	0.25	5	5	85.53	85.16	6.98	139.68	165.72	89.54	89.27
L-A-38	A-38	A-39	Box	1	170.51	0.013	0.25	5	5	85.16	84.72	6.92	142.35	165.75	89.27	88.98
L-A-39	A-39	A-40	Box	1	146.01	0.013	0.25	5	5	84.72	84.35	6.84	145.61	165.80	88.98	88.75
L-A-4	A-4	A-5	Circular	1	170.36	0.013	0.20	n/a	3	92.92	92.57	4.76	20.94	29.84	94.71	94.04
L-A-40	A-40	A-41	Box	1	145.99	0.013	0.25	5	5	84.35	83.97	6.75	148.37	165.81	88.75	88.52
L-A-41	A-41	A-42	Box	1	121.00	0.013	0.25	5	5	83.97	83.66	6.64	150.92	165.94	88.52	88.35
L-A-42	A-42	A-43	Box	1	148.41	0.013	0.25	5	5	83.66	83.28	6.53	152.98	165.80	88.35	88.15
L-A-43	A-43	A-OUT1	Box	1	109.15	0.013	0.25	5	5	83.28	83.00	6.53	158.97	165.84	88.15	88.00
L-A-44	A-44	A-25	Circular	1	146.17	0.013	0.25	n/a	3	92.66	92.28	4.69	32.50	33.33	95.51	94.21
L-A-5	A-5	A-6	Box	1	171.02	0.013	0.20	5	4	90.38	90.03	6.29	89.99	109.67	93.24	92.91
L-A-50	A-50	A-OUT3	Circular	1	34.79	0.013	0.30	n/a	2	85.11	85.00	3.63	11.39	12.39	87.09	87.00
L-A-51	A-51	A-50	Circular	1	130.39	0.013	0.30	n/a	2	87.55	87.15	3.48	9.89	12.39	89.25	88.28
L-A-5OFF	A-5OFF	A-5	Circular	1	11.00	0.013	0.12	n/a	2.5	90.40	90.38	14.71	72.18	14.21	100.86	93.24
L-A-6	A-6	A-7	Box	1	171.23	0.013	0.20	5	4	90.03	89.68	6.48	93.14	109.61	92.91	92.47
L-A-7	A-7	A-8	Box	1	128.85	0.013	0.20	5	4	89.68	89.42	6.90	96.22	109.74	92.47	91.91
L-A-8	A-8	A-9	Box	1	225.25	0.013	0.20	6	4	88.99	88.53	6.28	110.28	138.47	91.91	91.57
L-A-9	A-9	A-12	Box	1	258.46	0.013	0.20	6	4	88.53	88.00	6.42	117.04	138.56	91.57	91.15
L-AA-1	AA-1	AA-2	Circular	1	106.43	0.013	0.10	n/a	2.5	85.51	85.40	2.88	8.63	12.95	86.98	86.87
L-AA-10	AA-10	MH-AA1	Box	1	146.84	0.013	0.10	5	3	85.20	85.05	4.65	39.39	51.79	86.90	86.30
L-AA-11	AA-11	AA-10	Box	1	145.76	0.013	0.10	4	3	85.35	85.20	4.59	35.40	39.14	87.28	86.90
L-AA-12	AA-12	AA-11	Box	1	146.00	0.013	0.10	4	3	85.50	85.35	3.57	27.49	39.14	87.43	87.28

STORMSEWER DESIGN CALCULATIONS
OUTFALL 9 & 10 LINK HYDRAULIC CALCULATIONS

Link - ID	Link - Upstream Node	Link - Downstream Node	Link - Shape	Link - Number of Barrels	Link - Actual Length	Link - Manning's N Value	Link - Slope(%)	Link - Span (ft)	Link - Rise (ft)	Link - Invert Upstream (ft)	Link - Invert Downstream (ft)	Link - Actual Velocity Upstream (ft/s)	Link - Discharge (cfs)	Link - Capacity (cfs)	Link - HGL Upstream (ft)	Link - HGL Downstream (ft)
L-AA-13	AA-13	AA-12	Box	1	146.12	0.013	0.10	3	3	86.65	86.50	4.37	23.53	26.85	88.44	87.74
L-AA-14	AA-14	AA-13	Circular	1	246.02	0.013	0.10	n/a	3	86.90	86.65	3.91	19.73	21.09	88.92	88.44
L-AA-15	AA-15	AA-14	Circular	1	121.43	0.013	0.10	n/a	3	87.03	86.90	3.34	16.91	21.06	89.05	88.92
L-AA-16	AA-16	AA-15	Circular	1	70.68	0.013	0.10	n/a	2.5	87.60	87.53	3.82	12.90	13.00	89.22	89.05
L-AA-17	AA-17	AA-16	Circular	1	71.52	0.013	0.10	n/a	2.5	87.68	87.60	2.39	7.91	13.01	89.27	89.22
L-AA-18	AA-18	AA-17	Circular	1	121.10	0.013	0.10	n/a	2	88.30	88.18	2.15	3.68	7.15	89.37	89.27
L-AA-2	AA-2	MH-AA2	Circular	1	74.43	0.013	0.10	n/a	2.5	85.40	85.32	3.94	11.83	12.94	86.87	86.48
L-AA-3	AA-3	MH-AA2	Circular	1	164.40	0.013	0.10	n/a	4	83.85	83.68	4.91	37.23	45.42	86.17	85.61
L-AA-4	AA-4	AA-3	Circular	1	89.84	0.013	0.10	n/a	4	83.94	83.85	4.32	33.33	45.46	86.31	86.17
L-AA-5	AA-5	AA-4	Circular	1	129.09	0.013	0.10	n/a	3.5	84.58	84.44	4.56	27.32	31.81	86.67	86.31
L-AA-54	AA-54	AA-55	Circular	1	144.99	0.013	0.20	n/a	2.5	86.05	85.75	3.28	10.77	18.34	87.63	87.46
L-AA-55	AA-55	MH-AA1	Circular	1	95.21	0.013	0.20	n/a	2.5	85.75	85.55	4.74	16.92	18.42	87.46	86.94
L-AA-6	AA-6	AA-5	Circular	1	119.97	0.013	0.10	n/a	3.5	84.70	84.58	3.89	23.81	31.82	86.83	86.67
L-AA-7	AA-7	AA-6	Circular	1	338.94	0.013	0.10	n/a	3	85.54	85.20	3.92	20.33	21.09	87.61	86.83
L-AA-8	AA-8	AA-7	Circular	1	102.16	0.013	0.10	n/a	3	85.65	85.54	2.76	14.03	21.08	87.68	87.61
L-AA-9	AA-9	AA-8	Circular	1	139.84	0.013	0.10	n/a	2	86.79	86.65	2.86	5.62	7.15	87.99	87.68
L-MH-AA1	MH-AA1	MH-AA2	Circular	1	338.10	0.013	0.10	n/a	4.5	81.63	81.29	3.39	52.18	62.19	85.82	85.61
L-MH-AA2	MH-AA2	AA-OUT1	Circular	1	164.20	0.013	0.17	n/a	5.5	80.29	80.00	3.95	93.02	140.27	85.61	85.50

STORMSEWER DESIGN CALCULATIONS
OUTFALL 11 DRAINAGE AREA CALCULATIONS

DRAINAGE AREA ID	RUNOFF C	DRAINAGE AREA (ACRES)	TIME OF CONC.(MIN)	TIME USED (MIN)	INTENSITY	DISCHARGE (CFS)
B-12A	0.72	1.30	10.00	10.00	6.76	6.29
B-12	0.72	1.56	10.00	10.00	6.76	7.59
B-10	0.72	1.16	10.00	10.00	6.76	5.64
B-9	0.72	2.22	10.00	10.00	6.76	10.85
B-7	0.74	1.11	10.00	10.00	6.76	5.55
B-6	0.74	1.11	10.00	10.00	6.76	5.51
B-5	0.72	1.48	10.00	10.00	6.76	7.21
B-4	0.72	1.29	10.00	10.00	6.76	6.30
B-3	0.72	1.25	10.00	10.00	6.76	6.08
B-22	0.75	1.33	10.00	10.00	6.76	6.76
B-24	0.72	1.24	10.00	10.00	6.76	6.04
B-20	0.75	1.06	10.00	10.00	6.76	5.35
B-19	0.72	1.68	10.00	10.00	6.76	8.18
B-18	0.72	1.30	10.00	10.00	6.76	6.30
B-17	0.72	0.92	10.00	10.00	6.76	4.49
B-16	0.72	0.74	10.00	10.00	6.76	3.60
B-15	0.72	0.93	10.00	10.00	6.76	4.53
B-14	0.73	1.12	10.00	10.00	6.76	5.55
B-13	0.74	0.75	10.00	10.00	6.76	3.72
B-25	0.72	1.55	10.00	10.00	6.76	7.51
B-26	0.72	1.12	10.00	10.00	6.76	5.44
B-27	0.72	0.93	10.00	10.00	6.76	4.54
B-28	0.72	1.75	10.00	10.00	6.76	8.53
MH-B1	0.65	9.15	17.74	17.74	5.08	30.17

STORMSEWER DESIGN CALCULATIONS
OUTFALL 11 LINK HYDRAULIC CALCULATIONS

Link - ID	Link - Upstream Node	Link - Downstream Node	Link - Shape	Link - Number of Barrels	Link - Actual Length	Link - Manning's N Value	Link - Slope(%)	Link - Span (ft)	Link - Rise (ft)	Link - Invert Upstream (ft)	Link - Invert Downstream (ft)	Link - Actual Velocity Upstream (ft/s)	Link - Discharge (cfs)	Link - Capacity (cfs)	Link - HGL Upstream (ft)	Link - HGL Downstream (ft)
L-B-10	B-10	B-12	Box	1	362.26	0.013	0.10	4	3	83.21	82.84	3.48	38.54	39.14	85.98	85.73
L-B-12	B-12	B-12A	Box	1	163.98	0.013	0.10	5	3	82.84	82.67	2.94	42.51	51.94	85.73	85.67
L-B-12A	B-12A	B-OUT1	Box	1	8.07	0.013	0.12	5	3	82.67	82.66	3.10	46.33	56.70	85.67	85.66
L-B-13	B-13	B-14	Circular	1	146.25	0.013	0.10	n/a	2	87.15	87.00	1.58	3.72	7.15	88.55	88.51
L-B-14	B-14	B-15	Circular	1	45.91	0.013	0.10	n/a	2.5	86.50	86.45	2.09	8.82	12.98	88.51	88.48
L-B-15	B-15	B-16	Circular	1	71.20	0.013	0.10	n/a	3	85.95	85.88	2.04	12.99	21.06	88.48	88.46
L-B-16	B-16	B-17	Box	1	96.00	0.013	0.10	3	3	85.88	85.78	2.08	16.10	26.86	88.46	88.43
L-B-17	B-17	B-18	Box	1	295.81	0.013	0.10	3	3	85.78	85.48	2.49	19.84	26.86	88.43	88.30
L-B-18	B-18	B-19	Box	1	120.99	0.013	0.10	3	3	85.48	85.35	2.85	24.09	26.86	88.30	88.22
L-B-19	B-19	B-20	Box	1	97.87	0.013	0.10	4	3	85.35	85.25	2.64	30.38	39.14	88.22	88.19
L-B-20	B-20	B-OUT3	Box	1	131.92	0.013	0.10	4	3	85.26	85.12	2.93	34.29	39.14	88.19	88.12
L-B-22	B-22	B-OUT2	Circular	1	103.78	0.013	0.20	n/a	2.5	82.87	82.66	2.58	12.43	18.36	85.24	85.16
L-B-24	B-24	B-22	Circular	1	129.43	0.013	0.20	n/a	2	83.64	83.37	2.14	6.04	10.12	85.32	85.24
L-B-25	B-25	B-OUT4	Box	1	257.23	0.013	0.10	5	3	80.36	80.11	3.25	46.56	51.94	83.23	83.11
L-B-26	B-26	B-25	Box	1	96.15	0.013	0.10	5	3	80.46	80.36	2.98	41.77	51.94	83.27	83.23
L-B-27	B-27	B-26	Box	1	45.85	0.013	0.10	5	3	80.51	80.46	2.76	38.14	51.94	83.28	83.27
L-B-28	B-28	B-27	Box	1	121.00	0.013	0.10	4	3	80.64	80.51	3.26	35.49	39.14	83.36	83.28
L-B-3	B-3	B-4	Circular	1	170.85	0.013	0.10	n/a	2	85.18	85.01	2.48	6.08	7.15	86.64	86.48
L-B-4	B-4	B-5	Circular	1	195.78	0.013	0.10	n/a	2.5	84.51	84.31	2.83	11.79	12.98	86.48	86.31
L-B-5	B-5	B-6	Circular	1	145.89	0.013	0.10	n/a	3	83.81	83.66	2.83	17.80	21.09	86.31	86.21
L-B-6	B-6	B-7	Box	1	146.00	0.013	0.10	3	3	83.66	83.51	2.89	22.16	26.86	86.21	86.12
L-B-7	B-7	B-9	Box	1	152.60	0.013	0.10	4	3	83.51	83.35	2.52	26.30	39.14	86.12	86.06
L-B-9	B-9	B-10	Box	1	139.61	0.013	0.10	4	3	83.35	83.21	3.20	34.67	39.14	86.06	85.98
L-MH-B1	MH-B1	MH-B2	Circular	1	111.47	0.013	0.14	n/a	3	80.92	80.76	4.49	30.17	24.83	83.64	83.42
L-MH-B2	MH-B2	MH-B3	Box	1	37.54	0.013	0.10	4	3	80.76	80.72	2.84	30.17	39.14	83.42	83.40
L-MH-B3	MH-B3	B-28	Box	1	75.39	0.013	0.10	4	3	80.72	80.64	2.82	30.17	39.14	83.40	83.36

STORMSEWER DESIGN CALCULATIONS
OUTFALL 12 DRAINAGE AREA CALCULATIONS

DRAINAGE AREA ID	RUNOFF C	DRAINAGE AREA (ACRES)	TIME OF CONC.(MIN)	TIME USED (MIN)	INTENSITY	DISCHARGE (CFS)
C-1	0.73	2.05	10.00	10.00	6.76	10.13
C-12	0.72	0.75	10.00	10.00	6.76	3.64
C-13	0.72	0.89	10.00	10.00	6.76	4.36
C-14	0.72	0.75	10.00	10.00	6.76	3.63
C-15	0.67	5.43	16.09	16.10	5.35	19.54
C-2	0.74	1.30	10.00	10.00	6.76	6.54
C-21	0.73	1.10	10.00	10.00	6.76	5.37
C-22	0.74	2.30	10.00	10.00	6.76	11.46
C-23	0.72	1.08	10.00	10.00	6.76	5.21
C-30	0.72	0.95	10.00	10.00	6.76	4.60
C-31	0.72	0.84	10.00	10.00	6.76	4.10
C-32	0.72	1.49	10.00	10.00	6.76	7.26
C-5	0.73	1.12	10.00	10.00	6.76	5.54
C-6	0.72	0.74	10.00	10.00	6.76	3.64
C-7	0.72	1.14	10.00	10.00	6.76	5.57
C-8	0.72	2.01	10.00	10.00	6.76	9.81
C-9	0.74	1.09	10.00	10.00	6.76	5.46
MH-C3	0.65	32.92	22.64	22.64	4.41	94.39

STORMSEWER DESIGN CALCULATIONS
OUTFALL 12 LINK HYDRAULIC CALCULATIONS

Link - ID	Link - Upstream Node	Link - Downstream Node	Link - Shape	Link - Number of Barrels	Link - Actual Length	Link - Manning's N Value	Link - Slope(%)	Link - Span (ft)	Link - Rise (ft)	Link - Invert Upstream (ft)	Link - Invert Downstream (ft)	Link - Actual Velocity Upstream (ft/s)	Link - Discharge (cfs)	Link - Capacity (cfs)	Link - HGL Upstream (ft)	Link - HGL Downstream (ft)
L-C-1	C-1	MH-C1	Circular	1	30.91	0.013	0.20	n/a	3	82.00	81.93	5.45	23.86	29.87	83.78	83.50
L-C-12	C-12	C-6	Box	1	96.09	0.013	0.10	4	3	81.15	81.05	2.97	27.75	39.12	83.49	83.43
L-C-13	C-13	C-12	Box	1	116.00	0.013	0.10	3	3	81.27	81.15	3.60	25.44	26.86	83.63	83.49
L-C-14	C-14	C-13	Box	1	26.15	0.013	0.10	3	3	81.30	81.27	3.14	22.16	26.79	83.65	83.63
L-C-15	C-15	C-14	Circular	1	65.85	0.013	0.10	n/a	3	81.37	81.30	3.30	19.54	21.11	83.72	83.65
L-C-2	C-2	MH-C1	Box	1	86.09	0.013	0.10	4	3	80.63	80.54	3.70	37.01	39.14	83.13	83.05
L-C-21	C-21	MH-C2	Circular	1	252.54	0.013	0.10	n/a	3	82.35	82.09	4.06	20.39	21.09	84.35	83.54
L-C-22	C-22	C-21	Circular	1	149.05	0.013	0.10	n/a	3	82.50	82.35	3.19	15.92	21.09	84.49	84.35
L-C-23	C-23	C-22	Circular	1	151.69	0.013	0.10	n/a	2	83.66	83.50	2.81	5.21	7.16	84.80	84.49
L-C-30	C-30	C-31	Circular	1	108.98	0.013	0.20	n/a	2	83.93	83.70	2.35	4.60	10.12	85.12	85.05
L-C-31	C-31	C-32	Circular	1	196.00	0.013	0.20	n/a	2	83.70	83.30	3.75	8.48	10.12	85.05	84.43
L-C-32	C-32	C-1	Circular	1	146.15	0.013	0.20	n/a	2.5	82.80	82.50	4.42	14.95	18.33	84.43	83.80
L-C-5	C-5	C-2	Box	1	320.86	0.013	0.10	4	3	80.95	80.63	3.49	33.78	39.14	83.37	83.13
L-C-6	C-6	C-5	Box	1	95.91	0.013	0.10	4	3	81.05	80.95	3.16	30.08	39.16	83.43	83.37
L-C-7	C-7	C-8	Circular	1	142.42	0.013	0.20	n/a	2	83.79	83.50	2.86	5.57	10.12	84.98	84.61
L-C-8	C-8	C-9	Circular	1	132.58	0.013	0.20	n/a	2.5	83.00	82.73	4.44	14.90	18.34	84.61	84.03
L-C-9	C-9	MH-C2	Circular	1	49.83	0.013	0.20	n/a	3	82.23	82.12	4.98	19.72	29.83	83.87	83.54
L-MH-C1	MH-C1	MH-C2	Box	2	336.25	0.013	0.25	5	3	80.54	79.68	5.78	144.89	165.20	83.05	82.68
L-MH-C2	MH-C2	C-OUT	Box	2	13.54	0.013	0.25	5	3	79.68	79.64	5.63	168.94	164.24	82.68	82.64
L-MH-C3	MH-C3	MH-C1	Circular	1	44.14	0.013	0.23	n/a	4.5	80.65	80.54	5.96	94.39	94.00	85.07	83.39

STORMSEWER DESIGN CALCULATIONS
OUTFALL 13 DRAINAGE AREA CALCULATIONS

DRAINAGE AREA ID	RUNOFF C	DRAINAGE AREA (ACRES)	TIME OF CONC.(MIN)	TIME USED (MIN)	INTENSITY	DISCHARGE (CFS)
D-1	0.68	4.71	10.00	10.00	6.76	21.67
D-10	0.71	2.11	10.00	10.00	6.76	10.19
D-11	0.71	1.07	10.00	10.00	6.76	5.17
D-14	0.79	1.87	10.00	10.00	6.76	10.02
D-15	0.71	0.73	10.00	10.00	6.76	3.50
D-16	0.71	0.93	10.00	10.00	6.76	4.49
D-17	0.71	0.89	10.00	10.00	6.76	4.31
D-18	0.71	2.12	10.00	10.00	6.76	10.21
D-19	0.71	1.80	10.00	10.00	6.76	8.69
D-2	0.72	1.13	10.00	10.00	6.76	5.52
D-20	0.72	0.98	10.00	10.00	6.76	4.76
D-21	0.71	0.68	10.00	10.00	6.76	3.25
D-29	0.70	1.33	10.00	10.00	6.76	6.31
D-3	0.72	1.11	10.00	10.00	6.76	5.40
D-30	0.70	1.91	10.00	10.00	6.76	9.03
D-31	0.70	1.67	10.00	10.00	6.76	7.91
D-32	0.71	1.36	10.00	10.00	6.76	6.50
D-34	0.79	2.16	10.00	10.00	6.76	11.47
D-35	0.69	1.29	10.00	10.00	6.76	6.03
D-4	0.80	1.22	10.00	10.00	6.76	6.58
D-5	0.67	0.67	10.00	10.00	6.76	3.05
D-6	0.68	0.97	10.00	10.00	6.76	4.47
D-7	0.68	1.20	10.00	10.00	6.76	5.56
D-8	0.80	1.48	10.00	10.00	6.76	8.01
D-9	0.72	1.15	10.00	10.00	6.76	5.58

STORMSEWER DESIGN CALCULATIONS
OUTFALL 13 LINK HYDRAULIC CALCULATIONS

Link - ID	Link - Upstream Node	Link - Downstream Node	Link - Shape	Link - Number of Barrels	Link - Actual Length	Link - Manning's N Value	Link - Slope(%)	Link - Span (ft)	Link - Rise (ft)	Link - Invert Upstream (ft)	Link - Invert Downstream (ft)	Link - Actual Velocity Upstream (ft/s)	Link - Discharge (cfs)	Link - Capacity (cfs)	Link - HGL Upstream (ft)	Link - HGL Downstream (ft)
L-D-1	D-1	D-2	Circular	1	138.00	0.013	0.28	n/a	3	80.90	80.50	5.01	26.29	35.31	82.99	82.75
L-D-10	D-10	D-9	Circular	1	139.88	0.013	0.28	n/a	2.5	80.90	80.50	4.04	14.91	21.71	82.66	82.48
L-D-11	D-11	D-10	Circular	1	146.51	0.013	0.28	n/a	2	81.82	81.40	2.81	5.17	11.96	82.96	82.66
L-D-14	D-14	D-20	Circular	1	94.98	0.013	0.28	n/a	3.5	77.88	77.60	3.97	36.92	53.22	81.11	81.01
L-D-15	D-15	D-14	Circular	1	146.00	0.013	0.28	n/a	3	78.80	78.38	4.47	28.44	35.29	81.33	81.11
L-D-16	D-16	D-15	Circular	1	226.59	0.013	0.28	n/a	3	79.44	78.80	4.71	25.99	35.29	81.63	81.33
L-D-17	D-17	D-16	Circular	1	120.41	0.013	0.28	n/a	3	79.79	79.44	4.48	22.14	35.29	81.77	81.63
L-D-18	D-18	D-17	Circular	1	142.02	0.013	0.28	n/a	2.5	80.70	80.29	5.09	18.41	21.70	82.43	81.77
L-D-19	D-19	D-18	Circular	1	144.98	0.013	0.28	n/a	2	81.62	81.20	3.30	8.69	11.97	83.18	82.43
L-D-2	D-2	D-4	Circular	1	263.92	0.013	0.28	n/a	3	80.50	79.75	5.46	31.07	35.29	82.75	82.15
L-D-20	D-20	D-OUT2	Circular	1	64.33	0.013	0.28	n/a	3.5	77.60	77.41	4.26	40.75	53.28	81.01	80.91
L-D-21	D-21	D-OUT1	Circular	1	25.69	0.013	0.28	n/a	3	78.56	78.49	4.75	33.57	35.40	81.55	81.49
L-D-29	D-29	D-30	Circular	1	252.26	0.013	0.20	n/a	2	83.09	82.58	2.95	6.31	10.12	84.38	83.90
L-D-3	D-3	D-1	Circular	1	146.03	0.013	0.28	n/a	2	82.32	81.90	2.84	5.40	11.97	83.49	82.99
L-D-30	D-30	D-31	Circular	1	111.32	0.013	0.20	n/a	2.5	82.08	81.85	3.79	14.53	18.34	83.90	83.74
L-D-31	D-31	D-32	Circular	1	106.09	0.013	0.20	n/a	3	81.35	81.13	3.58	21.60	29.83	83.74	83.64
L-D-32	D-32	D-34	Circular	1	391.97	0.013	0.20	n/a	3	81.13	80.34	4.31	27.20	29.83	83.64	83.07
L-D-34	D-34	D-35	Circular	1	139.98	0.013	0.20	n/a	3.5	79.84	79.55	3.84	35.69	44.99	83.07	82.93
L-D-35	D-35	D-OUT1	Circular	1	215.32	0.013	0.20	n/a	3.5	79.55	79.12	4.23	40.22	44.99	82.93	82.62
L-D-4	D-4	D-5	Circular	1	135.63	0.013	0.28	n/a	3.5	79.25	78.86	4.24	36.13	53.24	82.15	82.02
L-D-5	D-5	D-6	Circular	1	76.34	0.013	0.28	n/a	3.5	78.86	78.64	4.20	38.34	53.25	82.02	81.93
L-D-6	D-6	D-OUT2	Circular	1	151.67	0.013	0.28	n/a	3.5	78.64	78.21	4.47	42.03	53.22	81.93	81.71
L-D-7	D-7	D-21	Circular	1	51.50	0.013	0.28	n/a	3	78.72	78.56	4.39	30.88	35.25	81.66	81.55
L-D-8	D-8	D-7	Circular	1	171.98	0.013	0.28	n/a	3	79.21	78.72	3.99	26.46	35.30	81.88	81.66
L-D-9	D-9	D-8	Circular	1	276.37	0.013	0.28	n/a	2.5	80.50	79.71	4.77	19.89	21.70	82.48	81.88

STORMSEWER DESIGN CALCULATIONS
OUTFALL 14 DRAINAGE AREA CALCULATIONS

E-1	0.72	1.63	10.00	10.00	6.76	7.95
E-10	0.72	0.79	10.00	10.00	6.76	3.85
E-11	0.77	0.47	10.00	10.00	6.76	2.44
E-12	0.71	1.08	10.00	10.00	6.76	5.19
E-13	0.71	1.11	10.00	10.00	6.76	5.36
E-14	0.71	0.86	10.00	10.00	6.76	4.17
E-15	0.71	1.08	10.00	10.00	6.76	5.19
E-16	0.71	1.77	10.00	10.00	6.76	8.54
E-17	0.71	1.31	10.00	10.00	6.76	6.34
E-18	0.70	1.32	10.00	10.00	6.76	6.26
E-2	0.74	1.42	10.00	10.00	6.76	7.07
E-20	0.72	1.07	10.00	10.00	6.76	5.21
E-21	0.74	1.08	10.00	10.00	6.76	5.35
E-21OFF	0.38	5.30	13.33	13.33	5.90	11.95
E-22	0.72	1.68	10.00	10.00	6.76	8.20
E-23	0.71	1.20	10.00	10.00	6.76	5.80
E-25	0.71	1.09	10.00	10.00	6.76	5.28
E-26	0.71	1.11	10.00	10.00	6.76	5.37
E-27	0.71	1.64	10.00	10.00	6.76	7.90
E-28	0.71	1.18	10.00	10.00	6.76	5.70
E-30	0.71	0.93	10.00	10.00	6.76	4.48
E-30OFF	0.44	3.96	14.43	14.43	5.67	9.93
E-31	0.71	1.04	10.00	10.00	6.76	5.01
E-32	0.71	0.92	10.00	10.00	6.76	4.42
E-33	0.71	1.68	10.00	10.00	6.76	8.11
E-34	0.71	1.18	10.00	10.00	6.76	5.69
E-34OFF	0.58	14.63	32.59	32.59	3.52	29.88
E-4	0.71	1.04	10.00	10.00	6.76	5.03
E-5	0.71	0.89	10.00	10.00	6.76	4.27
E-6	0.73	1.25	10.00	10.00	6.76	6.19
E-7	0.72	2.00	10.00	10.00	6.76	9.81
E-8	0.71	1.16	10.00	10.00	6.76	5.62

STORMSEWER DESIGN CALCULATIONS
OUTFALL 14 LINK HYDRAULIC CALCULATIONS

Link - ID	Link - Upstream Node	Link - Downstream Node	Link - Shape	Link - Number of Barrels	Link - Actual Length	Link - Manning's N Value	Link - Slope(%)	Link - Span (ft)	Link - Rise (ft)	Link - Invert Upstream (ft)	Link - Invert Downstream (ft)	Link - Actual Velocity Upstream (ft/s)	Link - Discharge (cfs)	Link - Capacity (cfs)	Link - HGL Upstream (ft)	Link - HGL Downstream (ft)
L-E-1	E-1	E-2	Circular	1	91.10	0.013	0.10	n/a	3	80.10	80.01	3.03	16.10	21.09	82.21	82.14
L-E-10	E-10	MH-E1	Box	1	78.68	0.013	0.10	5	3	78.98	78.90	3.53	38.31	51.94	81.15	81.09
L-E-11	E-11	MH-E1	Box	1	38.71	0.013	0.10	4	3	78.90	78.85	3.97	35.70	39.27	81.14	81.09
L-E-12	E-12	E-18	Box	1	91.44	0.013	0.10	4	3	79.05	78.95	3.29	29.26	39.05	81.27	81.20
L-E-13	E-13	E-12	Box	1	145.88	0.013	0.10	4	3	79.20	79.05	2.96	25.56	39.16	81.35	81.27
L-E-14	E-14	E-13	Box	1	271.00	0.013	0.10	3	3	79.47	79.20	3.39	22.08	26.86	81.64	81.35
L-E-15	E-15	E-14	Circular	1	146.00	0.013	0.10	n/a	3	79.62	79.47	3.43	18.86	21.09	81.80	81.64
L-E-16	E-16	E-15	Circular	1	125.69	0.013	0.10	n/a	3	79.75	79.62	2.69	14.37	21.12	81.87	81.80
L-E-17	E-17	E-16	Circular	1	113.02	0.013	0.10	n/a	2	80.87	80.75	2.96	6.34	7.15	82.16	81.87
L-E-18	E-18	E-11	Box	1	50.60	0.013	0.10	4	3	78.95	78.90	3.78	33.98	39.14	81.20	81.14
L-E-2	E-2	E-6	Box	1	417.71	0.013	0.10	3	3	80.01	79.58	3.48	22.27	26.86	82.14	81.64
L-E-20	E-20	E-21	Circular	1	146.00	0.013	0.10	n/a	2	81.48	81.33	2.76	5.21	7.15	82.64	82.39
L-E-21	E-21	E-22	Box	1	97.02	0.013	0.10	3	3	80.33	80.23	3.42	21.10	26.86	82.39	82.28
L-E-21OFF	E-21OFF	E-21	Circular	1	10.00	0.013	0.10	n/a	2.5	80.85	80.83	3.38	11.95	12.97	82.54	82.39
L-E-22	E-22	E-23	Box	1	128.79	0.013	0.10	4	3	80.23	80.10	3.38	27.70	39.14	82.28	82.17
L-E-23	E-23	E-25	Box	1	315.48	0.013	0.10	4	3	80.10	79.78	3.85	31.92	39.14	82.17	81.79
L-E-25	E-25	E-26	Box	1	151.07	0.013	0.10	4	3	79.78	79.62	4.29	34.51	39.14	81.79	81.53
L-E-26	E-26	E-27	Box	1	88.65	0.013	0.10	5	3	79.62	79.53	3.99	37.93	51.94	81.53	81.42
L-E-27	E-27	E-28	Box	1	131.41	0.013	0.10	5	3	79.53	79.40	4.60	43.47	51.94	81.42	81.15
L-E-28	E-28	MH-E1	Box	2	287.35	0.013	0.10	6	3	78.39	78.10	2.34	77.46	130.13	81.15	81.09
L-E-30	E-30	E-28	Box	1	289.84	0.013	0.10	5	3	78.69	78.39	3.64	48.17	51.94	81.34	81.15
L-E-30OFF	E-30OFF	E-30	Box	1	10.01	0.013	0.20	5	3	80.55	80.52	2.20	9.93	73.45	81.45	81.34
L-E-31	E-31	E-30	Box	1	140.74	0.013	0.10	5	3	78.83	78.69	3.15	40.52	51.94	81.41	81.34
L-E-32	E-32	E-31	Box	1	123.51	0.013	0.10	4	3	78.96	78.83	3.75	38.39	39.14	81.52	81.41
L-E-33	E-33	E-32	Box	1	94.50	0.013	0.10	4	3	79.06	78.96	3.59	36.45	39.14	81.60	81.52
L-E-34	E-34	E-33	Box	1	131.68	0.013	0.10	4	3	79.20	79.06	3.28	32.69	39.14	81.69	81.60
L-E-34OFF	E-34OFF	E-34	Box	1	48.69	0.013	0.10	4	3	79.25	79.20	3.02	29.88	39.14	81.72	81.69
L-E-4	E-4	E-5	Circular	1	119.29	0.013	0.10	n/a	2	81.35	81.23	2.69	5.03	7.15	82.50	82.32
L-E-5	E-5	E-1	Circular	1	127.41	0.013	0.10	n/a	2.5	80.73	80.60	2.72	8.97	12.95	82.32	82.21
L-E-6	E-6	E-7	Box	1	179.19	0.013	0.10	4	3	79.58	79.40	3.14	25.78	39.14	81.64	81.52
L-E-7	E-7	E-8	Box	1	133.86	0.013	0.10	4	3	79.40	79.26	3.90	33.02	39.14	81.52	81.35
L-E-8	E-8	E-10	Box	1	278.14	0.013	0.10	5	3	79.26	78.98	3.52	36.83	51.94	81.35	81.15
L-MH-E1	MH-E1	E-OUT	Box	2	14.60	0.013	0.10	6	3	78.10	78.09	3.34	120.02	130.13	81.09	81.09

STORMSEWER DESIGN CALCULATIONS
OUTFALL 15 DRAINAGE AREA CALCULATIONS

DRAINAGE AREA ID	RUNOFF C	DRAINAGE AREA (ACRES)	TIME OF CONC.(MIN)	TIME USED (MIN)	INTENSITY	DISCHARGE (CFS)
F-1	0.72	0.96	10.00	10.00	6.76	4.68
F-10	0.63	0.98	10.00	10.00	6.76	4.18
F-11	0.70	1.55	10.00	10.00	6.76	7.29
F-12	0.75	0.87	10.00	10.00	6.76	4.44
F-13	0.65	0.67	10.00	10.00	6.76	2.95
F-14	0.79	2.17	10.00	10.00	6.76	11.57
F-15	0.72	1.08	10.00	10.00	6.76	5.27
F-15A	0.71	1.07	10.00	10.00	6.76	5.16
F-16	0.74	0.82	10.00	10.00	6.76	4.07
F-17	0.72	1.54	10.00	10.00	6.76	7.53
F-18	0.71	1.24	10.00	10.00	6.76	5.96
F-2	0.73	1.37	10.00	10.00	6.76	6.81
F-20	0.71	1.17	10.00	10.00	6.76	5.66
F-25	0.71	1.69	10.00	10.00	6.76	8.15
F-26	0.71	1.44	10.00	10.00	6.76	6.95
F-28	0.81	2.35	10.00	10.00	6.76	12.82
F-29	0.75	0.90	10.00	10.00	6.76	4.53
F-3	0.71	1.04	10.00	10.00	6.76	5.03
F-31	0.70	1.27	10.00	10.00	6.76	6.03
F-32	0.65	0.66	10.00	10.00	6.76	2.89
F-33	0.64	1.53	10.00	10.00	6.76	6.61
F-4	0.72	1.86	10.00	10.00	6.76	9.04
F-5	0.72	1.37	10.00	10.00	6.76	6.65
F-6	0.72	1.41	10.00	10.00	6.76	6.84
F-7	0.71	1.04	10.00	10.00	6.76	5.03
F-8	0.71	1.08	10.00	10.00	6.76	5.19
F-9	0.80	2.08	10.00	10.00	6.76	11.29
MH-F1	0.63	129.99	33.99	33.99	3.43	281.48

STORMSEWER DESIGN CALCULATIONS
OUTFALL 15 LINK HYDRAULIC CALCULATIONS

Link - ID	Link - Upstream Node	Link - Downstream Node	Link - Shape	Link - Number of Barrels	Link - Actual Length	Link - Manning's N Value	Link - Slope(%)	Link - Span (ft)	Link - Rise (ft)	Link - Invert Upstream (ft)	Link - Invert Downstream (ft)	Link - Actual Velocity Upstream (ft/s)	Link - Discharge (cfs)	Link - Capacity (cfs)	Link - HGL Upstream (ft)	Link - HGL Downstream (ft)
L-F-1	F-1	F-2	Circular	1	187.26	0.013	0.28	n/a	2	81.03	80.49	2.75	4.68	11.97	82.09	81.97
L-F-10	F-10	F-9	Circular	1	196.00	0.013	0.10	n/a	3.5	76.05	75.85	3.52	29.94	31.82	78.94	78.77
L-F-11	F-11	F-10	Circular	1	150.69	0.013	0.10	n/a	3.5	76.20	76.05	3.24	27.09	31.82	79.04	78.94
L-F-12	F-12	F-11	Circular	1	246.00	0.013	0.10	n/a	3.5	76.45	76.20	2.72	21.75	31.82	79.16	79.04
L-F-13	F-13	F-12	Circular	1	83.22	0.013	0.10	n/a	3	77.04	76.95	3.24	18.03	21.09	79.24	79.16
L-F-14	F-14	F-13	Circular	1	132.97	0.013	0.10	n/a	3	77.17	77.04	2.89	15.76	21.09	79.33	79.24
L-F-15	F-15	F-16	Circular	1	110.01	0.013	0.28	n/a	2	80.01	79.69	4.41	10.13	11.97	81.39	80.91
L-F-15A	F-15A	F-15	Circular	1	146.00	0.013	0.28	n/a	2	80.43	80.01	2.81	5.16	11.97	81.57	81.39
L-F-16	F-16	F-17	Circular	1	83.01	0.013	0.28	n/a	2.5	79.19	78.95	3.86	13.82	21.70	80.91	80.81
L-F-17	F-17	F-18	Circular	1	123.69	0.013	0.28	n/a	2.5	78.95	78.59	5.30	20.72	21.70	80.81	80.14
L-F-18	F-18	F-20	Circular	1	331.94	0.013	0.28	n/a	3	78.09	77.15	5.51	25.87	35.29	79.98	78.79
L-F-2	F-2	F-4	Circular	1	170.72	0.013	0.28	n/a	2	80.49	80.00	4.44	11.06	11.97	81.97	81.24
L-F-20	F-20	F-6	Box	2	281.09	0.013	0.20	7	4	74.85	74.28	6.23	320.64	336.20	78.52	78.26
L-F-25	F-25	F-20	Box	2	132.38	0.013	0.20	7	4	75.12	74.85	6.17	305.57	336.20	78.66	78.52
L-F-26	F-26	F-25	Circular	1	95.15	0.013	0.20	n/a	3.5	75.95	75.75	4.14	34.25	44.96	78.76	78.66
L-F-28	F-28	F-26	Circular	1	370.84	0.013	0.20	n/a	3	77.20	76.45	4.92	29.72	29.83	79.59	78.76
L-F-29	F-29	F-28	Circular	1	122.02	0.013	0.20	n/a	3	77.45	77.20	3.28	18.48	29.83	79.68	79.59
L-F-3	F-3	F-14	Circular	1	176.37	0.013	0.10	n/a	2	78.35	78.17	2.57	5.03	7.15	79.55	79.33
L-F-31	F-31	F-29	Circular	1	246.00	0.013	0.20	n/a	2.5	78.45	77.95	4.15	14.90	18.34	80.17	79.68
L-F-32	F-32	F-31	Circular	1	60.70	0.013	0.20	n/a	2	79.08	78.95	4.10	9.23	10.12	80.43	80.17
L-F-33	F-33	F-32	Circular	1	130.05	0.013	0.20	n/a	2	79.35	79.08	3.00	6.61	10.12	80.67	80.43
L-F-4	F-4	F-5	Circular	1	80.38	0.013	0.28	n/a	2.5	79.50	79.26	5.27	19.20	21.69	81.24	80.75
L-F-5	F-5	F-6	Circular	1	203.07	0.013	0.28	n/a	3	78.76	78.18	5.46	25.13	35.30	80.62	79.80
L-F-6	F-6	F-OUT	Box	2	12.01	0.013	0.20	8	4	74.28	74.25	5.68	361.85	396.34	78.26	78.25
L-F-7	F-7	F-6	Circular	1	349.87	0.013	0.10	n/a	4	75.05	74.69	3.82	44.72	45.42	78.56	78.26
L-F-8	F-8	F-7	Circular	1	146.00	0.013	0.10	n/a	4	75.20	75.05	3.59	41.62	45.42	78.67	78.56
L-F-9	F-9	F-8	Circular	1	146.00	0.013	0.10	n/a	4	75.35	75.20	3.34	38.26	45.42	78.77	78.67
L-MH-F1	MH-F1	F-25	Circular	1	45.95	0.013	0.20	n/a	4	75.22	75.12	22.40	281.48	64.24	98.60	79.08

STORMSEWER DESIGN CALCULATIONS
OUTFALL 16 DRAINAGE AREA CALCULATIONS

DRAINAGE AREA ID	RUNOFF C	DRAINAGE AREA (ACRES)	TIME OF CONC.(MIN)	TIME USED (MIN)	INTENSITY	DISCHARGE (CFS)
G-10	0.79	2.74	10.00	10.00	6.76	14.66
G-12	0.71	1.77	10.00	10.00	6.76	8.50
G-13	0.70	1.51	10.00	10.00	6.76	7.17
G-15	0.73	2.58	10.00	10.00	6.76	12.81
G-16	0.69	2.57	10.00	10.00	6.76	11.95
G-18	0.69	2.65	10.00	10.00	6.76	12.30
G-19	0.68	3.04	10.00	10.00	6.76	13.97
G-20	0.69	2.19	10.00	10.00	6.76	10.15
G-21	0.66	2.12	10.00	10.00	6.76	9.38
G-22	0.69	1.07	10.00	10.00	6.76	5.01
G-23	0.70	1.03	10.00	10.00	6.76	4.89
G-24	0.63	0.83	10.00	10.00	6.76	3.57
G-25	0.82	2.34	10.00	10.00	6.76	13.01
G-26	0.70	1.06	10.00	10.00	6.76	5.02
G-3	0.71	0.86	10.00	10.00	6.76	4.16
G-4	0.71	1.26	10.00	10.00	6.76	6.06
G-5	0.71	0.90	10.00	10.00	6.76	4.33
G-6	0.71	0.72	10.00	10.00	6.76	3.46
G-7	0.72	1.13	10.00	10.00	6.76	5.46
G-8	0.74	0.47	10.00	10.00	6.76	2.31
G-9	0.68	0.85	10.00	10.00	6.76	3.87

STORMSEWER DESIGN CALCULATIONS
OUTFALL 16 LINK HYDRAULIC CALCULATIONS

Link - ID	Link - Upstream Node	Link - Downstream Node	Link - Shape	Link - Number of Barrels	Link - Actual Length	Link - Manning's N Value	Link - Slope(%)	Link - Span (ft)	Link - Rise (ft)	Link - Invert Upstream (ft)	Link - Invert Downstream (ft)	Link - Actual Velocity Upstream (ft/s)	Link - Discharge (cfs)	Link - Capacity (cfs)	Link - HGL Upstream (ft)	Link - HGL Downstream (ft)
L-G-10	G-10	G-9	Circular	1	70.51	0.013	0.28	n/a	3	75.76	75.55	5.34	28.38	35.29	77.87	77.70
L-G-12	G-12	G-10	Circular	1	191.72	0.013	0.28	n/a	2.5	76.81	76.26	4.74	15.09	21.70	78.35	77.87
L-G-13	G-13	G-12	Circular	1	200.87	0.013	0.28	n/a	2	77.88	77.31	3.07	7.17	11.97	79.27	78.35
L-G-15	G-15	G-16	Circular	1	122.07	0.013	0.28	n/a	2.5	78.05	77.70	3.46	12.81	21.70	79.82	78.99
L-G-16	G-16	G-18	Circular	1	87.51	0.013	0.28	n/a	3	77.20	76.94	5.51	24.25	35.29	78.99	78.57
L-G-18	G-18	G-19	Circular	1	403.47	0.013	0.28	n/a	3.5	76.44	75.30	5.87	35.86	53.24	78.57	77.79
L-G-19	G-19	G-20	Circular	1	145.85	0.013	0.28	n/a	3.5	75.30	74.88	6.44	47.08	53.24	77.79	77.20
L-G-20	G-20	G-21	Circular	1	195.30	0.013	0.28	n/a	4	74.33	73.78	5.77	55.55	76.01	77.20	76.93
L-G-21	G-21	G-22	Circular	1	57.86	0.013	0.28	n/a	4	73.78	73.60	5.91	62.82	76.01	76.93	76.83
L-G-22	G-22	MH-G2	Circular	1	138.87	0.013	0.28	n/a	4	73.60	73.20	6.16	66.89	76.01	76.83	76.56
L-G-23	G-23	MH-G2	Circular	1	43.42	0.013	0.28	n/a	3	74.95	74.82	5.65	25.27	35.29	76.77	76.56
L-G-24	G-24	G-23	Circular	1	44.98	0.013	0.28	n/a	2.5	75.59	75.45	5.56	20.75	21.70	77.37	77.00
L-G-25	G-25	G-24	Circular	1	121.00	0.013	0.28	n/a	2.5	75.94	75.59	4.85	17.65	21.70	77.68	77.37
L-G-26	G-26	G-25	Circular	1	101.00	0.013	0.28	n/a	2	76.73	76.44	2.79	5.02	11.97	77.85	77.68
L-G-3	G-3	G-4	Circular	1	171.00	0.013	0.28	n/a	2	78.11	77.62	2.69	4.16	11.97	79.10	78.97
L-G-4	G-4	G-5	Circular	1	121.00	0.013	0.28	n/a	2	77.62	77.27	4.36	9.85	11.97	78.97	78.40
L-G-5	G-5	G-6	Circular	1	96.00	0.013	0.28	n/a	2.5	76.77	76.49	4.03	13.73	21.70	78.40	78.28
L-G-6	G-6	G-7	Circular	1	115.69	0.013	0.28	n/a	2.5	76.49	76.15	4.44	16.75	21.70	78.28	78.07
L-G-7	G-7	MH-G1	Circular	1	155.59	0.013	0.28	n/a	2.5	76.15	75.70	5.30	21.47	21.70	78.07	77.28
L-G-8	G-8	MH-G1	Circular	1	37.81	0.013	0.28	n/a	3	75.39	75.27	6.32	33.62	35.29	77.50	77.15
L-G-9	G-9	G-8	Circular	1	54.61	0.013	0.28	n/a	3	75.55	75.39	5.85	31.72	35.29	77.70	77.50
L-MH-G1	MH-G1	G-OUT	Circular	1	413.94	0.013	0.32	n/a	5.5	71.39	70.07	6.39	138.02	189.46	76.09	75.57
L-MH-G2	MH-G2	MH-G1	Circular	1	296.58	0.013	0.28	n/a	4.5	72.70	71.86	6.14	89.14	104.06	76.56	76.09

STORMSEWER DESIGN CALCULATIONS
OUTFALL 17-19: DRAINAGE AREA CALCULATIONS

DRAINAGE AREA ID	RUNOFF C	DRAINAGE AREA (ACRES)	TIME OF CONC.(MIN)	TIME USED (MIN)	INTENSITY	DISCHARGE (CFS)
A-1	0.70	4.61	10.00	10.00	6.76	21.84
A-10	0.71	4.86	10.00	10.00	6.76	23.22
A-12	0.70	5.35	10.50	10.50	6.62	24.82
A-13	0.72	4.62	10.00	10.00	6.76	22.58
A-2	0.70	7.85	10.00	10.00	6.76	37.11
A-3	0.68	8.61	10.00	10.00	6.76	39.70
A-5	0.71	5.24	10.00	10.00	6.76	25.17
A-8	0.71	4.98	10.00	10.00	6.76	23.72
A-9	0.72	4.45	10.00	10.00	6.76	21.72
B-1	0.69	8.33	10.00	10.00	6.76	38.78
B-101	0.53	27.31	29.33	29.33	3.77	54.49
B-2	0.71	2.85	10.00	10.00	6.76	13.73
B-4	0.73	4.89	10.00	10.00	6.76	24.00
B-6	0.85	1.29	10.00	10.00	6.76	7.40
B-7	0.55	3.02	10.50	10.50	6.62	10.96
B-8	0.80	1.87	10.50	10.50	6.62	9.91
B-9	0.77	1.01	10.00	10.00	6.76	5.28
BNGL01	0.56	23.01	22.06	22.06	4.48	57.73
C-1	0.72	4.58	17.82	17.82	5.06	16.73
C-2	0.55	2.00	10.47	10.47	6.63	7.34
C-2a	0.67	5.20	20.97	20.97	4.62	15.94
C-4	0.68	2.08	10.00	10.00	6.76	9.57
C-4a	0.57	2.97	10.00	10.00	6.76	11.42
C-6	0.85	0.84	10.00	10.00	6.76	4.84
CNT-01	0.56	47.76	22.87	22.87	4.39	117.29
CNT-02	0.56	34.79	27.92	27.92	3.88	75.66
D-1	0.69	2.61	10.00	10.00	6.76	12.15
D-2	0.73	3.63	10.00	10.00	6.76	17.81
D-2a	0.75	3.57	10.00	10.00	6.76	18.16
D-3	0.71	3.59	10.00	10.00	6.76	17.14
D-3a	0.71	1.94	10.00	10.00	6.76	9.27
D-5	0.72	2.79	10.08	10.08	6.74	13.45
D-5A	0.71	3.02	10.00	10.00	6.76	14.52
D-6	0.75	2.42	10.00	10.00	6.76	12.28
D-7	0.72	2.83	11.16	11.16	6.43	13.06
NWC	0.65	7.49	17.06	17.06	5.18	25.23

STORMSEWER DESIGN CALCULATIONS
OUTFALL 17-19: LINK HYDRAULIC CALCULATIONS

Link - ID	Link - Upstream Node	Link - Downstream Node	Link - Shape	Link - Number of Barrels	Link - Actual Length	Link - Manning's N Value	Link - Slope(%)	Link - Span (ft)	Link - Rise (ft)	Link - Invert Upstream (ft)	Link - Invert Downstream (ft)	Link - Actual Velocity Upstream (ft/s)	Link - Discharge (cfs)	Link - Capacity (cfs)	Link - HGL Upstream (ft)	Link - HGL Downstream (ft)	
L-A-1	A-1	A-2	Circular	1	384.61	0.013	0.10	n/a	3.5	74.88	74.49	2.54	21.84	31.82	77.81	77.65	
L-J-A-10	A-10	J-A-10	Circular	1	338.60	0.013	0.15	n/a	4.5	74.08	73.57	3.77	57.17	76.16	78.17	77.94	
L-A-11A	A-12	A-11	Circular	1	113.27	0.013	0.10	n/a	4	74.16	74.04	3.41	42.85	45.42	78.14	78.04	
L-J-A-12	A-13	J-A-12	Circular	1	314.80	0.013	0.10	n/a	3.5	75.24	74.92	2.51	22.58	31.82	78.33	78.20	
L-A-2	A-2	J-A-2	Box	1	346.60	0.013	0.10	4	4	74.00	73.65	3.73	54.50	57.84	77.65	77.41	
L-A-3	A-3	J-A-5	Box	1	207.25	0.013	0.10	6	4	73.35	73.14	3.57	82.73	97.91	77.21	77.13	
L-A-5	A-5	J-A-5	Circular	1	384.75	0.013	0.20	n/a	3	74.78	74.00	3.61	25.17	29.83	77.65	77.13	
L-A-8	A-8	J-A-8	Circular	1	252.78	0.013	0.15	n/a	3	75.80	75.41	3.36	23.72	25.83	79.33	79.01	
L-J-A-9	A-9	J-A-9	Circular	1	347.34	0.013	0.10	n/a	4	74.78	74.43	3.33	41.23	45.42	78.61	78.36	
L-B-1	B-1	J-B-2	Circular	1	299.54	0.013	0.10	n/a	4	73.54	73.24	3.81	38.78	45.42	76.56	76.31	
L-B-2	B-2	J-B-3	Circular	1	156.18	0.013	0.10	n/a	4.5	72.35	72.19	3.38	46.69	62.19	76.00	75.92	
L-B-4	B-4	J-B-3	Circular	1	138.94	0.013	0.25	n/a	3	73.15	72.79	3.41	24.00	33.35	76.10	75.92	
L-B-6	B-6	B-7	Box	1	169.43	0.013	0.10	8	4	71.91	71.74	3.88	121.00	140.13	75.81	75.74	
L-B-8	B-8	B-7	Circular	1	325.72	0.013	0.50	n/a	2	74.02	72.38	5.71	14.42	16.00	75.52	74.38	
L-B-9	B-9	B-8	Circular	1	225.48	0.013	0.10	n/a	2	76.32	76.09	2.77	5.28	7.15	77.49	76.90	
L-BNGL01	BNGL01	BNGL02	Circular	1	59.15	0.013	0.14	n/a	4	68.54	68.45	4.59	57.73	54.23	72.89	72.79	*City of Houston Line
L-BNGL03	BNGL02	BNGL03	Circular	1	415.73	0.013	0.25	n/a	5	68.45	67.41	4.92	89.07	129.95	72.79	72.41	*City of Houston Line
L-C-1	C-1	C-2	Circular	1	132.53	0.013	0.10	n/a	3	73.43	73.30	2.51	16.73	20.74	76.11	76.04	
L-C-2	C-2	C-2a	Box	1	264.46	0.013	0.10	3	3	73.30	73.04	2.66	21.85	26.63	76.04	75.91	
L-C-2A	C-2a	C-3	Box	1	278.71	0.013	0.10	4	3	73.04	72.76	3.16	36.30	39.02	75.91	75.76	
L-C-3	C-6	C-3	Circular	1	103.93	0.013	0.10	n/a	2	75.16	75.05	1.56	4.84	7.15	77.09	77.05	
L-J-A-5	CNT-01	J-A-5	Circular	1	479.68	0.013	0.01	n/a	3.5	72.55	72.50	12.19	117.29	10.23	83.70	77.13	*City of Houston Line
L-CNT-02	CNT-02	J-B-3	Circular	1	40.67	0.013	0.10	n/a	4	72.24	72.19	6.02	75.66	45.42	76.38	75.92	*City of Houston Line
L-D-2A	D-1	D-2a	Circular	1	269.57	0.013	0.10	n/a	3	70.76	70.49	2.18	12.15	21.09	72.97	72.87	
L-D-2	D-2	BNGL02	Circular	1	183.92	0.013	0.10	n/a	3	70.06	69.87	2.57	17.81	21.09	72.90	72.79	
L-BNGL02	D-2a	BNGL02	Circular	1	108.13	0.013	0.10	n/a	3.5	69.99	69.87	3.35	28.39	31.82	72.87	72.79	
L-D-3	D-3	J-D-5	Circular	1	295.00	0.013	0.10	n/a	3.5	72.05	71.75	3.80	25.62	31.82	74.36	74.02	
L-D-3A	D-3a	D-3	Circular	1	217.17	0.013	0.50	n/a	2	74.66	73.55	3.39	9.27	16.00	76.28	74.64	
L-D-5	D-5	D-5a	Circular	1	283.53	0.013	0.25	n/a	3.5	70.76	70.04	3.92	34.74	50.31	73.80	73.53	
L-D-5A	D-5a	BNGL03	Circular	1	23.41	0.013	0.10	n/a	4	69.54	69.52	2.77	34.74	45.42	73.53	73.52	
L-D-6	D-6	J-D-6a	Circular	1	70.93	0.013	0.09	n/a	3.5	69.41	69.34	2.49	23.85	30.75	72.84	72.81	
L-D-7	D-7	D-6	Circular	1	156.94	0.013	0.10	n/a	3	70.07	69.91	1.89	13.06	21.03	72.90	72.84	
L-A-11B	J-A-10	A-11	Circular	1	180.63	0.013	0.15	n/a	4.5	73.57	73.30	3.63	57.17	76.16	77.94	77.80	
L-A-12	J-A-12	A-12	Circular	1	264.38	0.013	0.10	n/a	4	74.42	74.16	1.84	22.58	45.42	78.20	78.14	
L-J-A-2	J-A-2	A-3	Box	1	295.45	0.013	0.10	4	4	73.65	73.35	3.63	54.50	57.84	77.41	77.21	
L-A-11	J-A-5	A-11	Box	1	281.09	0.013	0.25	6	5	72.50	71.80	7.00	194.31	209.69	77.13	76.80	
L-A-9	J-A-8	A-9	Circular	1	308.09	0.013	0.15	n/a	3	75.42	74.95	3.36	23.72	25.83	79.01	78.61	
L-A-10	J-A-9	A-10	Circular	1	235.29	0.013	0.15	n/a	4	74.44	74.08	3.30	41.23	55.63	78.36	78.17	
L-J-B-2	J-B-2	B-2	Circular	1	389.29	0.013	0.10	n/a	4	73.24	72.85	3.75	38.78	45.42	76.31	76.00	
L-J-B-3	J-B-3	B-6	Box	1	275.55	0.013	0.10	8	4	72.19	71.91	4.00	119.26	140.13	75.92	75.81	
L-J-D-5	J-D-5	D-5	Circular	1	399.65	0.013	0.25	n/a	3.5	71.76	70.75	3.91	25.62	50.31	74.02	73.80	
L-J-D-6A	J-D-6a	MH-8	Circular	1	83.37	0.013	0.09	n/a	3.5	69.34	69.26	2.48	23.85	30.80	72.81	72.76	

STORMSEWER DESIGN CALCULATIONS
OUTFALL 20-22: DRAINAGE AREA CALCULATIONS

DRAINAGE AREA ID	RUNOFF C	DRAINAGE AREA (ACRES)	TIME OF CONC.(MIN)	TIME USED (MIN)	INTENSITY	DISCHARGE (CFS)
COH01	0.65	51.22	68.33	68.33	2.12	70.65
DET-4C	0.90	5.85	10.00	10.00	6.76	35.60
E-1	0.55	6.78	15.41	15.41	5.48	20.58
E-10	0.72	2.22	10.00	10.00	6.76	10.75
E-11	0.71	3.50	10.00	10.00	6.76	16.89
E-1a	0.74	2.66	10.00	10.00	6.76	13.29
E-2	0.64	7.09	13.51	13.51	5.86	26.63
E-3	0.72	3.96	10.00	10.00	6.76	19.14
E-4	0.72	4.44	10.00	10.00	6.76	21.62
E-5	0.78	4.86	10.00	10.00	6.76	25.69
E-6	0.72	3.48	10.00	10.00	6.76	16.87
E-7	0.74	2.44	10.00	10.00	6.76	12.30
E-7a	0.74	2.45	10.00	10.00	6.76	12.28
E-8	0.81	2.87	10.00	10.00	6.76	15.75
E-9	0.72	3.93	10.00	10.00	6.76	19.12
F-1	0.73	3.61	10.00	10.00	6.76	17.94
F-1a	0.74	3.10	10.08	10.08	6.74	15.48
F-2	0.72	4.47	10.00	10.00	6.76	21.79
F-3	0.73	6.43	10.00	10.00	6.76	31.78
F-4	0.72	2.06	10.00	10.00	6.76	10.02
F-5	0.72	5.83	10.00	10.00	6.76	28.32
F-6	0.72	5.83	11.68	11.68	6.30	26.29
G-1	0.76	2.94	10.00	10.00	6.76	15.14
G-1a	0.72	2.84	10.11	10.11	6.73	13.78
G-1b	0.72	5.55	10.00	10.00	6.76	26.86
G-2	0.72	3.41	10.00	10.00	6.76	16.69
G-2a	0.78	2.00	10.00	10.00	6.76	10.60
G-3	0.73	3.37	10.00	10.00	6.76	16.61
G-3a	0.72	5.10	10.00	10.00	6.76	24.84
G-4	0.70	2.62	10.00	10.00	6.76	12.38
G-5	0.77	3.30	10.00	10.00	6.76	17.13
G-5a	0.73	0.92	10.00	10.00	6.76	4.51
H-1	0.72	6.37	10.62	10.62	6.58	30.07
H-2	0.75	4.28	10.76	10.76	6.54	20.94
H-3	0.73	2.88	10.00	10.00	6.76	14.26
H-3a	0.67	2.08	10.00	10.00	6.76	9.38
H-4a	0.76	1.71	10.00	10.00	6.76	8.77
H-5	0.74	3.17	10.00	10.00	6.76	15.81
H-7	0.76	4.09	10.00	10.00	6.76	20.94
H-8	0.66	4.22	10.00	10.00	6.76	18.95
H-9	0.90	1.28	10.00	10.00	6.76	7.76
MH-12s	0.65	2.98	10.00	10.00	6.76	13.11
MH-18s	0.65	57.42	50.00	50.00	2.65	98.70
MH-7s	0.62	257.99	80.00	80.00	1.89	300.46
W43rd	0.53	53.06	41.11	41.11	3.02	84.99

STORMSEWER DESIGN CALCULATIONS
OUTFALL 20-22: LINK HYDRAULIC CALCULATIONS

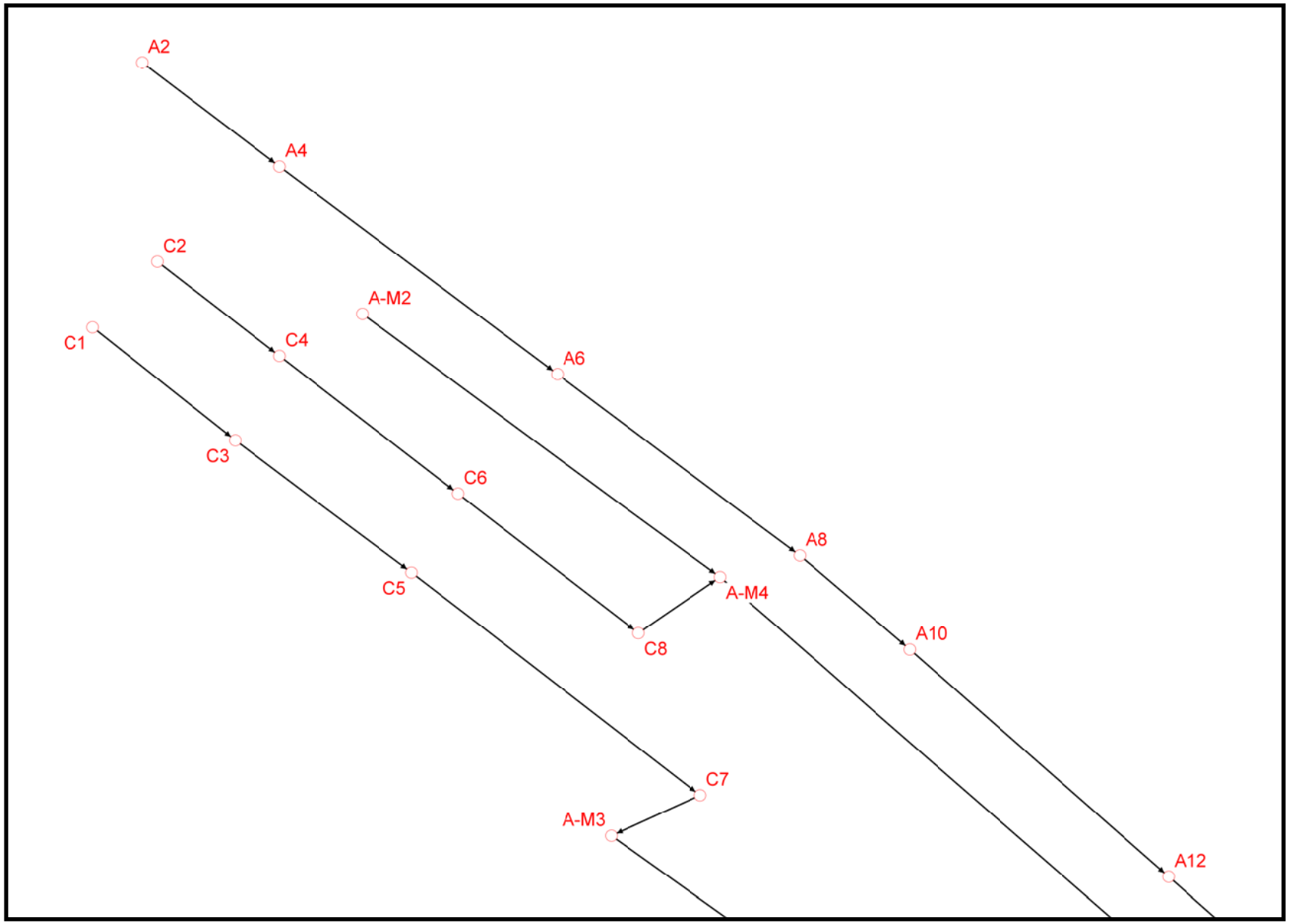
Link - ID	Link - Upstream Node	Link - Downstream Node	Link - Shape	Link - Number of Barrels	Link - Actual Length	Link - Manning's N Value	Link - Slope(%)	Link - Span (ft)	Link - Rise (ft)	Link - Invert Upstream (ft)	Link - Invert Downstream (ft)	Link - Actual Velocity Upstream (ft/s)	Link - Discharge (cfs)	Link - Capacity (cfs)	Link - HGL Upstream (ft)	Link - HGL Downstream (ft)	
L-COH01	COH01	F-2a	Circular	1	168.06	0.013	0.20	n/a	4	62.14	61.80	5.64	70.65	64.24	66.09	64.34	*City of Houston Line
L-DET-4CO	DET-4C	J-H-4a	Box	1	106.66	0.013	0.10	6	5	57.20	57.09	1.19	35.60	133.35	62.87	62.87	
L-E-1	E-1	E-2	Circular	1	396.13	0.013	0.10	n/a	4	65.96	65.56	3.46	31.34	45.42	68.67	68.41	
L-E-10	E-10	E-11	Circular	1	183.82	0.013	0.10	n/a	5	62.25	62.06	3.54	64.86	82.36	66.65	66.55	
L-E-11	E-11	E11504.4	Circular	1	61.67	0.013	0.20	n/a	5	61.63	61.50	3.88	75.85	116.47	66.55	66.50	
L-E-1a	E-1a	E-1	Circular	1	396.41	0.013	0.10	n/a	3	67.36	66.96	3.17	13.29	21.09	69.08	68.67	
L-E-2	E-2	J-E-2	Box	1	268.32	0.013	0.10	4	4	65.56	65.29	4.66	53.08	57.84	68.41	67.98	
L-E-3	E-3	E-4	Box	1	381.95	0.013	0.10	5	4	63.53	63.14	4.74	62.42	77.56	66.16	65.59	
L-E-4	E-4	E-4a	Box	1	135.77	0.013	0.10	6	4	63.14	63.00	5.07	74.52	97.97	65.59	65.37	
L-E-4a	E-4a	E-5	Box	1	206.23	0.012	0.10	7	5	61.59	61.38	5.03	133.03	176.26	65.37	65.23	
L-E-5	E-5	J-E-5	Box	1	395.86	0.012	0.10	7	5	61.38	60.98	5.31	142.96	176.26	65.23	64.94	
L-E-6	E-6	E-7a	Circular	1	340.00	0.013	0.10	n/a	3	66.17	65.83	3.41	16.87	21.09	68.15	67.76	
L-E-7	E-7	E-8	Circular	1	292.06	0.013	0.10	n/a	4	64.49	64.20	3.72	36.28	45.42	67.39	67.16	
L-E-7a	E-7a	E-7	Circular	1	338.48	0.013	0.10	n/a	3.5	65.33	64.99	3.80	27.09	31.82	67.76	67.39	
L-E-8	E-8	E-9	Circular	1	196.00	0.013	0.10	n/a	4.5	63.70	63.50	3.65	47.85	62.19	67.16	67.03	
L-E-9	E-9	J-E-9	Circular	1	389.82	0.013	0.10	n/a	5	63.00	62.61	3.67	62.17	82.36	67.03	66.83	
L-F-1	F-1	F-2a	Box	1	513.51	0.012	0.10	7	5	60.41	59.89	5.20	150.42	176.26	64.54	64.21	
L-F-1a	F-1a	F-1	Box	1	179.67	0.012	0.10	7	5	60.57	60.39	5.04	144.11	176.26	64.66	64.54	
L-F-2	F-2	J-F-3	Box	1	296.08	0.013	0.10	9	5	59.80	59.50	4.81	188.87	223.18	64.17	64.02	
L-F-2a	F-2a	F-2	Box	1	78.49	0.013	0.12	9	5	59.89	59.80	4.70	182.53	239.06	64.21	64.17	
L-F-3	F-3	BRCKH01.0	Box	1	465.66	0.013	0.10	9	5	59.11	58.64	4.57	194.61	223.18	63.84	63.64	
L-F-4	F-4	F-5	Circular	1	309.01	0.013	0.10	n/a	3	63.99	63.67	3.11	10.02	21.09	65.38	64.89	
L-F-5	F-5	J-F-5	Circular	1	122.23	0.013	0.10	n/a	4	62.68	62.55	4.98	35.46	45.42	64.89	64.32	
L-F-6	F-6	J-F-6	Circular	1	396.15	0.013	0.10	n/a	3.5	63.00	62.60	3.62	26.29	31.82	65.47	65.10	
L-G-1	G-1	G-1a	Box	1	213.95	0.013	0.10	4	4	60.16	59.94	3.22	45.05	58.11	63.66	63.55	
L-G-1a	G-1a	J-G-1a	Box	1	378.65	0.013	0.10	4	4	59.94	59.57	3.78	54.64	56.87	63.55	63.27	
L-G-1b	G-1b	BRCKH01.0	Box	1	349.81	0.013	0.10	5	4	59.19	58.84	3.61	69.03	77.36	63.02	62.84	
L-G-2	G-2	G-1	Circular	1	246.34	0.013	0.10	n/a	4	60.40	60.16	3.00	34.01	44.48	63.79	63.66	
L-G-2a	G-2a	G-2	Circular	1	302.00	0.013	0.10	n/a	3.5	61.21	60.90	2.64	21.05	32.02	63.92	63.79	
L-G-3	G-3	J-G-3	Box	1	459.93	0.013	0.10	8	4	59.57	59.11	3.62	115.53	139.53	63.56	63.25	
L-H-5a	G-3a	J-H-5	Box	1	276.34	0.013	0.10	6	5	58.78	58.50	4.73	120.95	133.35	63.05	62.84	
L-G-4	G-4	G-3	Box	1	331.39	0.013	0.10	8	4	59.90	59.57	3.67	110.83	139.00	63.67	63.56	
L-G-5	G-5	G-5a	Circular	1	146.48	0.013	0.10	n/a	3.5	60.74	60.59	1.93	17.13	31.76	63.78	63.74	
L-G-5a	G-5a	G-5b	Circular	1	89.16	0.013	0.10	n/a	3.5	60.59	60.50	2.29	20.94	31.27	63.74	63.71	
L-G-5b	G-5b	G-4	Box	1	102.84	0.013	0.09	8	4	60.00	59.90	3.59	106.57	135.57	63.71	63.67	
L-H-1	H-1	BRCKH01.1	Box	1	322.08	0.013	0.10	9	7	55.26	54.93	5.25	322.20	360.97	62.08	61.93	
L-H-2	H-2	J-H-2	Box	1	192.75	0.013	0.10	9	7	56.24	56.05	5.59	321.23	351.53	62.63	62.51	
L-H-3	H-3	H-3b	Box	1	158.00	0.013	0.10	6	5	56.71	56.55	1.78	53.44	133.35	62.83	62.80	
L-H-3a	H-3a	H-2	Box	1	226.00	0.013	0.10	9	7	56.47	56.24	5.59	316.86	357.72	62.77	62.63	
L-H-3b	H-3b	H-3a	Box	1	55.41	0.013	0.08	9	7	56.52	56.47	5.57	314.70	328.17	62.80	62.77	
L-H-4a	H-4a	H-3	Box	1	264.30	0.013	0.10	6	5	56.97	56.70	1.41	42.43	133.35	62.86	62.83	
L-H-5	H-5	J-H-5	Circular	1	393.64	0.013	0.10	n/a	5	58.40	58.00	2.67	50.11	82.60	62.96	62.84	
L-H-7	H-7	J-H-7	Circular	1	198.31	0.013	0.10	n/a	4	59.39	59.19	3.27	40.40	45.17	63.20	63.06	
L-H-8	H-8	H-7	Circular	1	226.00	0.013	0.10	n/a	3.5	60.12	59.89	2.57	23.57	31.82	63.30	63.20	
L-H-9	H-9	H-8	Circular	1	490.91	0.013	0.10	n/a	3.5	60.61	60.12	0.97	7.76	31.66	63.33	63.30	
LJ-E-2	J-E-2	E-3	Box	1	387.73	0.013	0.10	4	4	65.29	64.90	4.94	53.08	57.84	67.98	66.66	
LJ-E-5	J-E-5	F-1a	Box	1	412.47	0.012	0.10	7	5	60.99	60.57	5.17	142.96	176.26	64.94	64.66	
L-E-515	JE5150100	E5150100	Circular	1	80.00	0.013	0.20	n/a	4.5	56.59	56.43	3.43	54.24	87.94	60.99	60.93	
LJ-E-9	J-E-9	E-10	Circular	1	364.29	0.013	0.10	n/a	5	62.61	62.24	3.52	62.17	82.36	66.83	66.65	
LJ-F-3	J-F-3	F-3	Box	1	395.92	0.013	0.10	9	5	59.51	59.11	4.65	188.87	223.18	64.02	63.84	
LJ-F-5	J-F-5	JE5150100	Circular	1	27.40	0.013	0.20	n/a	4.5	56.65	56.59	3.45	54.24	87.94	61.01	60.99	
LJ-F-6	J-F-6	J-F-5	Circular	1	369.62	0.013	0.10	n/a	3.5	62.91	62.54	4.15	26.29	31.82	65.10	64.12	
L-JG-1a	J-G-1a	G-1b	Box	1	375.94	0.013	0.10	4	4	59.57	59.19	3.69	54.64	57.84	63.27	63.02	
LJ-G-3	J-G-3	G-3a	Box	1	296.54	0.013	0.10	8	4	59.11	58.81	3.61	115.53	140.00	63.25	63.05	
LJ-G-3a	J-G-3a	G-2a	Circular	1	353.48	0.013	0.10	n/a	3	62.06	61.71	2.57	13.11	20.87	64.09	63.92	
LJ-H-1a	J-H-1	H-1	Box	1	402.46	0.013	0.10	9	7	55.66	55.26	5.38	321.23	354.87	62.29	62.08	
LJ-H-1	J-H-2	J-H-1	Box	1	392.95	0.013	0.10	9	7	56.05	55.66	5.52	321.23	354.58	62.51	62.29	
L-J-H-4A	J-H-4a	H-4a	Box	1	121.18	0.013	0.10	6	5	57.10	56.97	1.19	35.60	133.35	62.87	62.86	

STORMSEWER DESIGN CALCULATIONS
OUTFALL 20-22: LINK HYDRAULIC CALCULATIONS

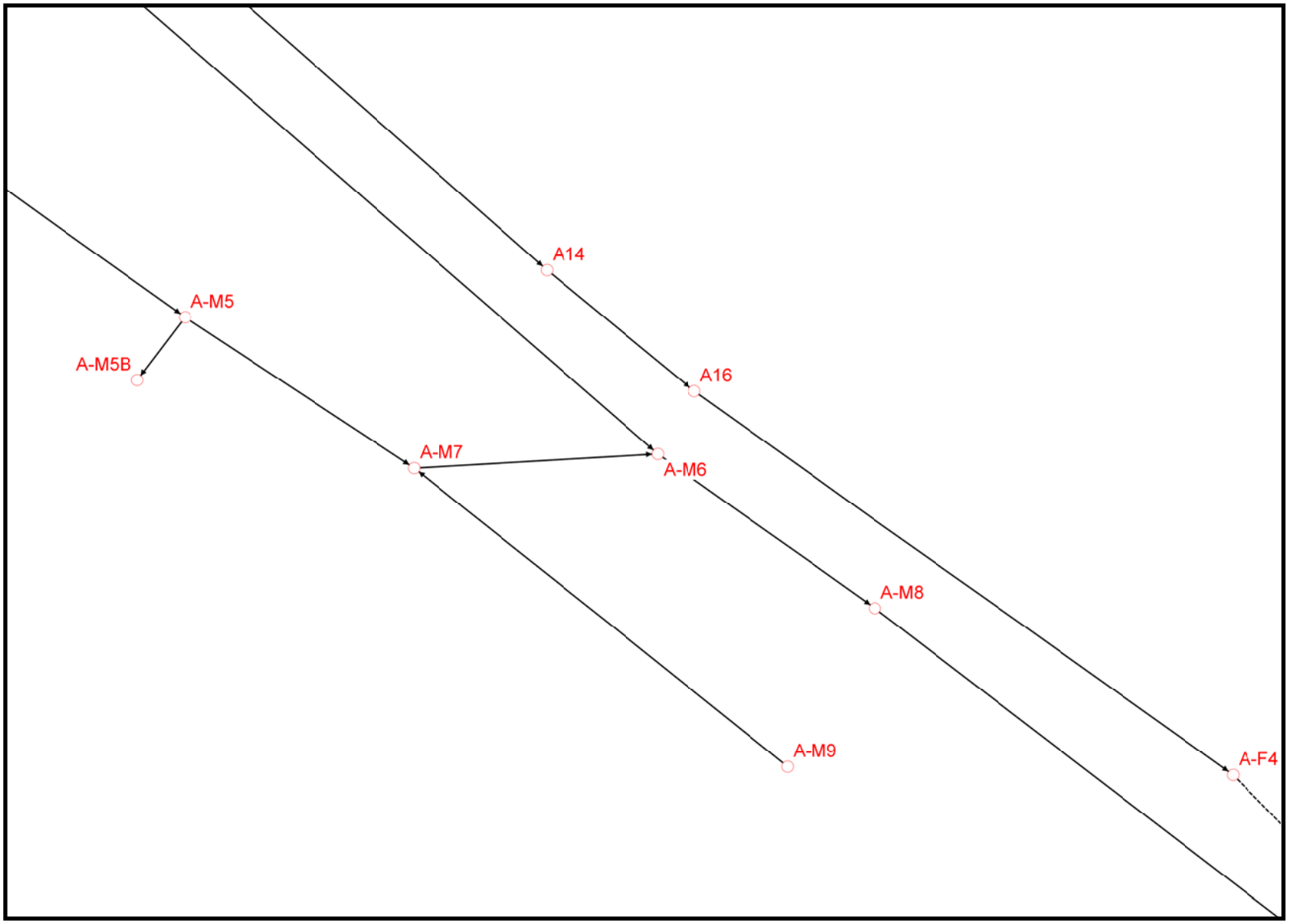
Link - ID	Link - Upstream Node	Link - Downstream Node	Link - Shape	Link - Number of Barrels	Link - Actual Length	Link - Manning's N Value	Link - Slope(%)	Link - Span (ft)	Link - Rise (ft)	Link - Invert Upstream (ft)	Link - Invert Downstream (ft)	Link - Actual Velocity Upstream (ft/s)	Link - Discharge (cfs)	Link - Capacity (cfs)	Link - HGL Upstream (ft)	Link - HGL Downstream (ft)	
L-DET-4C-IN	J-H-4b	DET-4C-IN	Box	1	105.59	0.012	0.10	7	5	57.85	57.74	4.14	142.65	178.22	62.78	62.74	
LJ-H-5	J-H-5	J-H-4b	Box	1	148.98	0.012	0.10	7	5	58.00	57.85	4.22	142.65	174.53	62.84	62.78	
LJ-H-7	J-H-7	H-5	Circular	1	293.70	0.013	0.10	n/a	4.5	59.19	58.90	2.78	40.40	61.38	63.06	62.96	
L-MH-12s	MH-12s	J-G-3a	Circular	1	162.32	0.013	0.10	n/a	3	62.06	61.90	2.46	13.11	20.82	64.17	64.09	
L-MH-14s	MH-14s	E-4a	Circular	1	23.75	0.013	0.09	n/a	5	63.39	63.37	7.15	84.99	76.59	66.31	65.98	*City of Houston Line
L-MH-18s	MH-18s	G-5b	Circular	1	189.11	0.013	0.26	n/a	4	62.42	61.92	7.85	98.70	73.31	67.56	64.93	*City of Houston Line
L-MH-7s	MH-7s	H-3b	Circular	1	360.99	0.013	0.11	n/a	7	55.98	55.59	7.81	300.46	208.82	63.61	62.80	*City of Houston Line
L-W43rd	W43rd	MH-14s	Circular	1	169.87	0.013	0.20	n/a	5	63.74	63.39	5.19	84.99	116.47	67.62	66.31	*City of Houston Line

OUTFALLS 1-4
SWMM OUTPUT
100 YR- EXISTING CONDITIONS

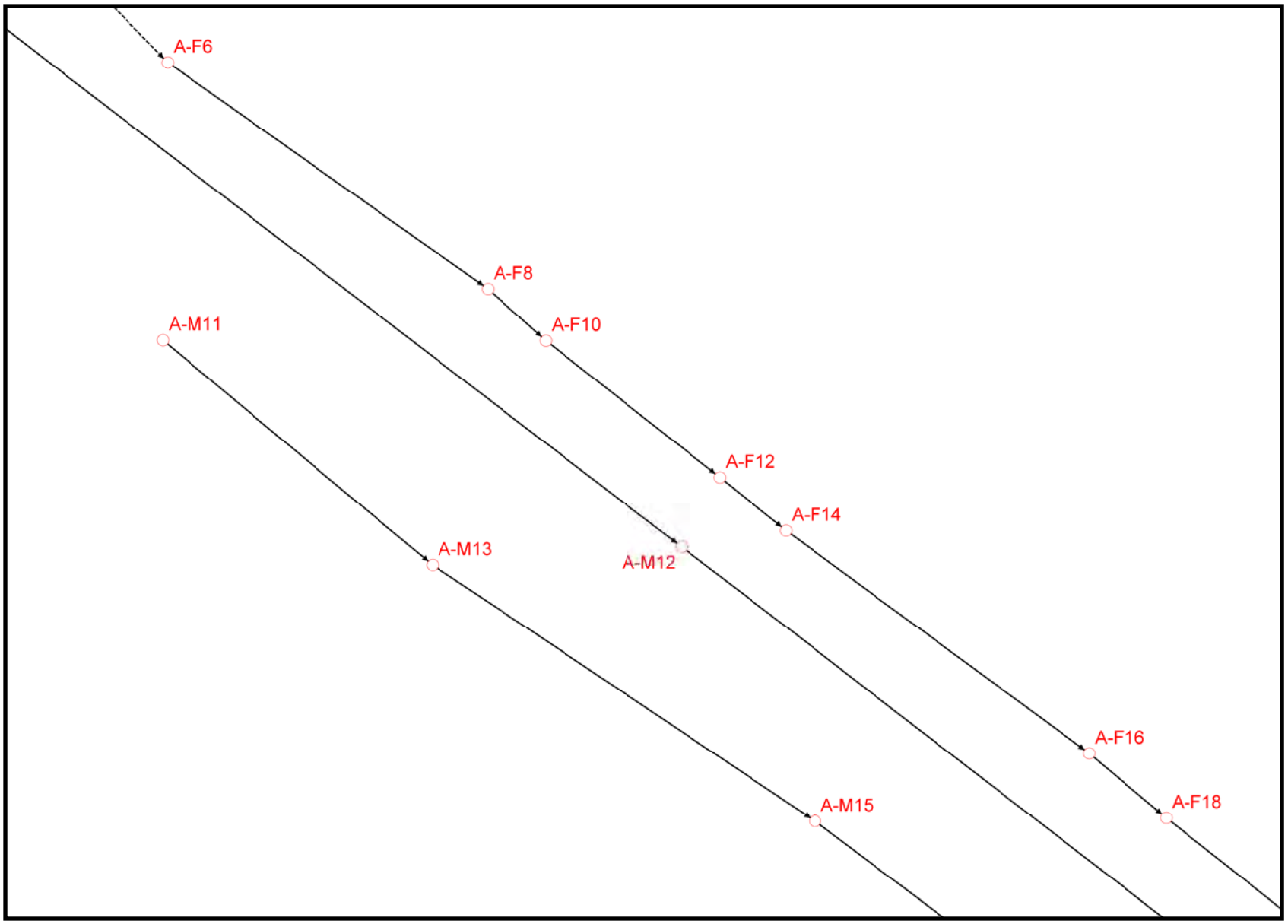
OUTFALL 1 & 2
EXISTING CONDITIONS SWMM LAYOUT



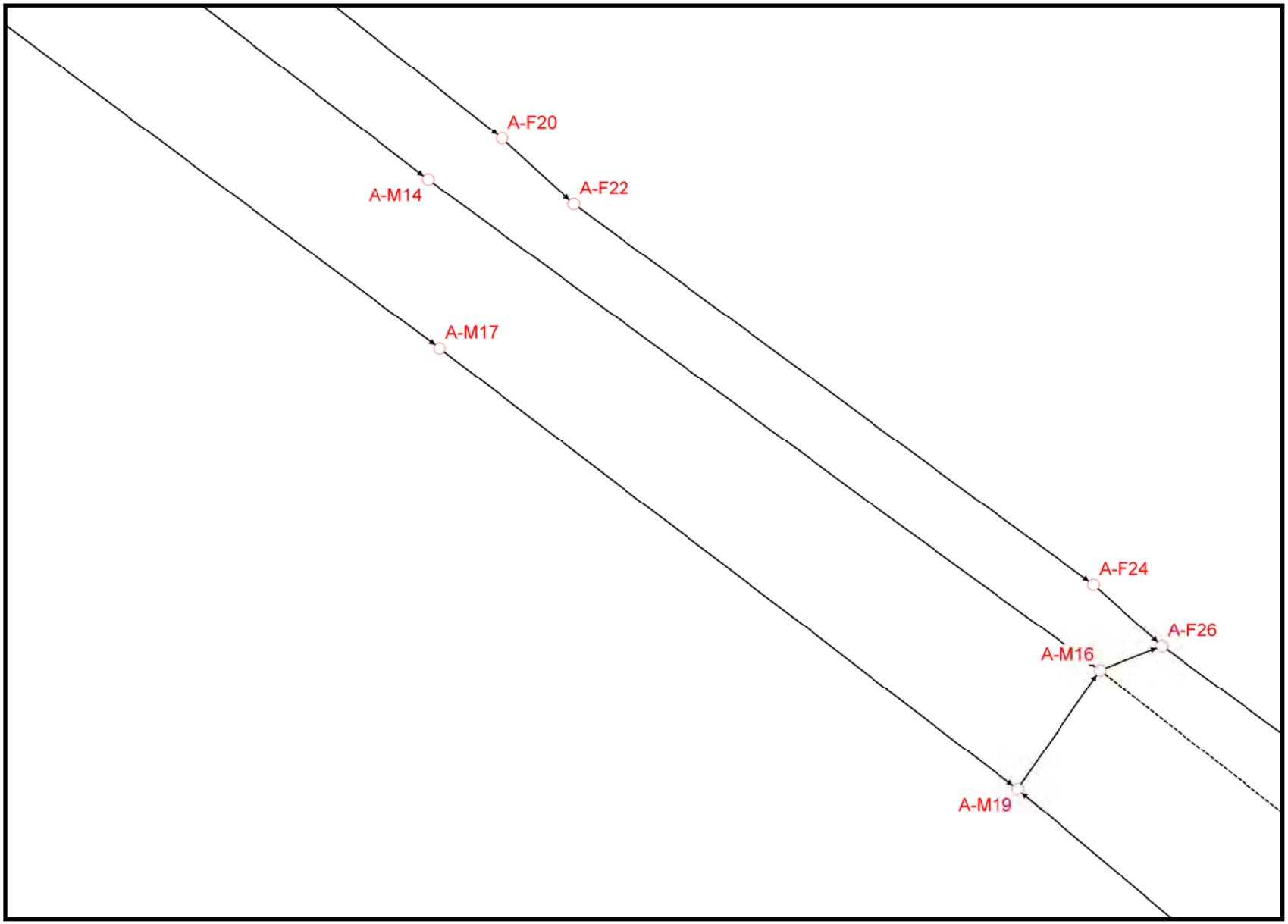
OUTFALL 1 & 2
EXISTING CONDITIONS SWMM LAYOUT



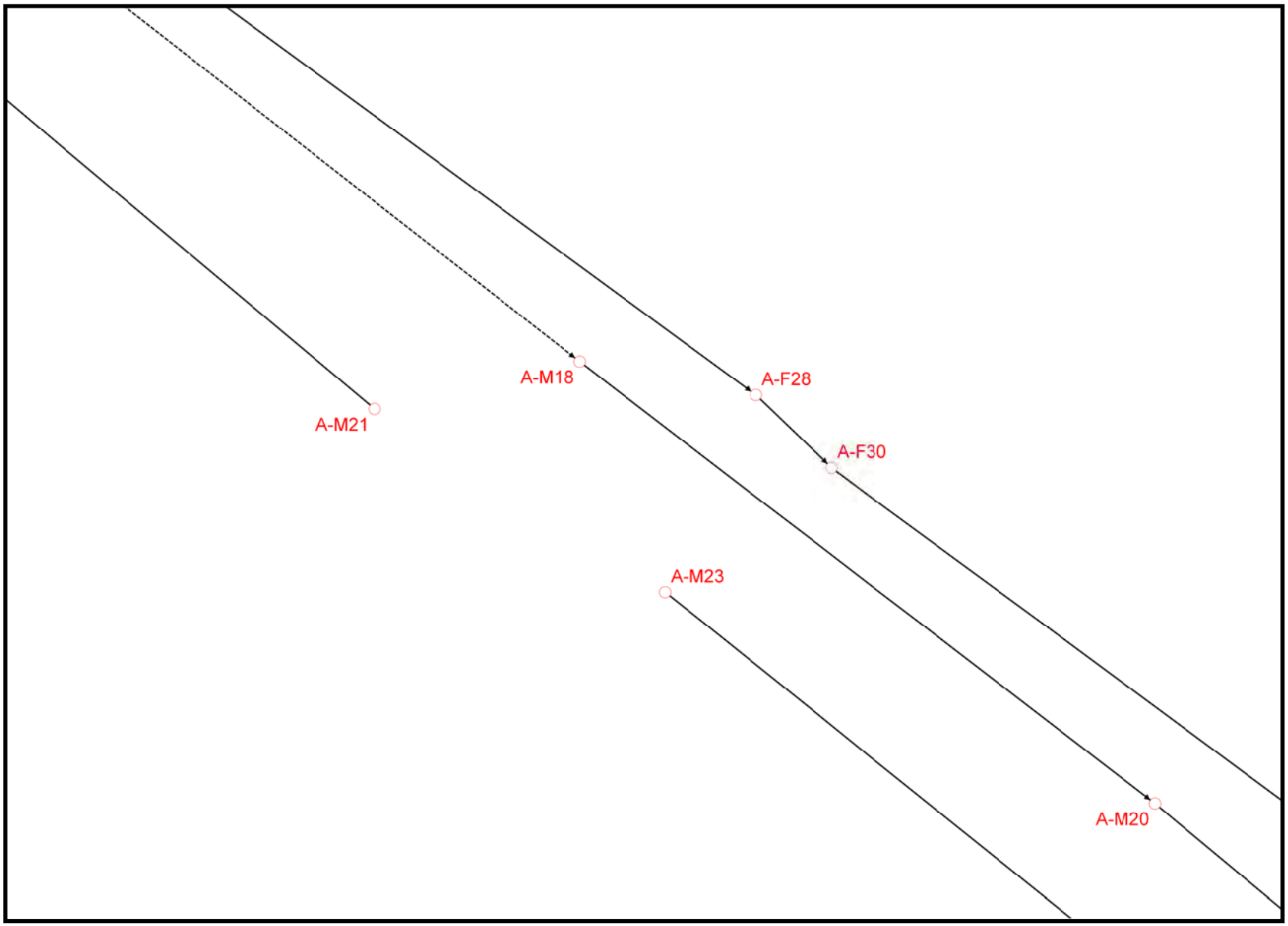
OUTFALL 1 & 2
EXISTING CONDITIONS SWMM LAYOUT



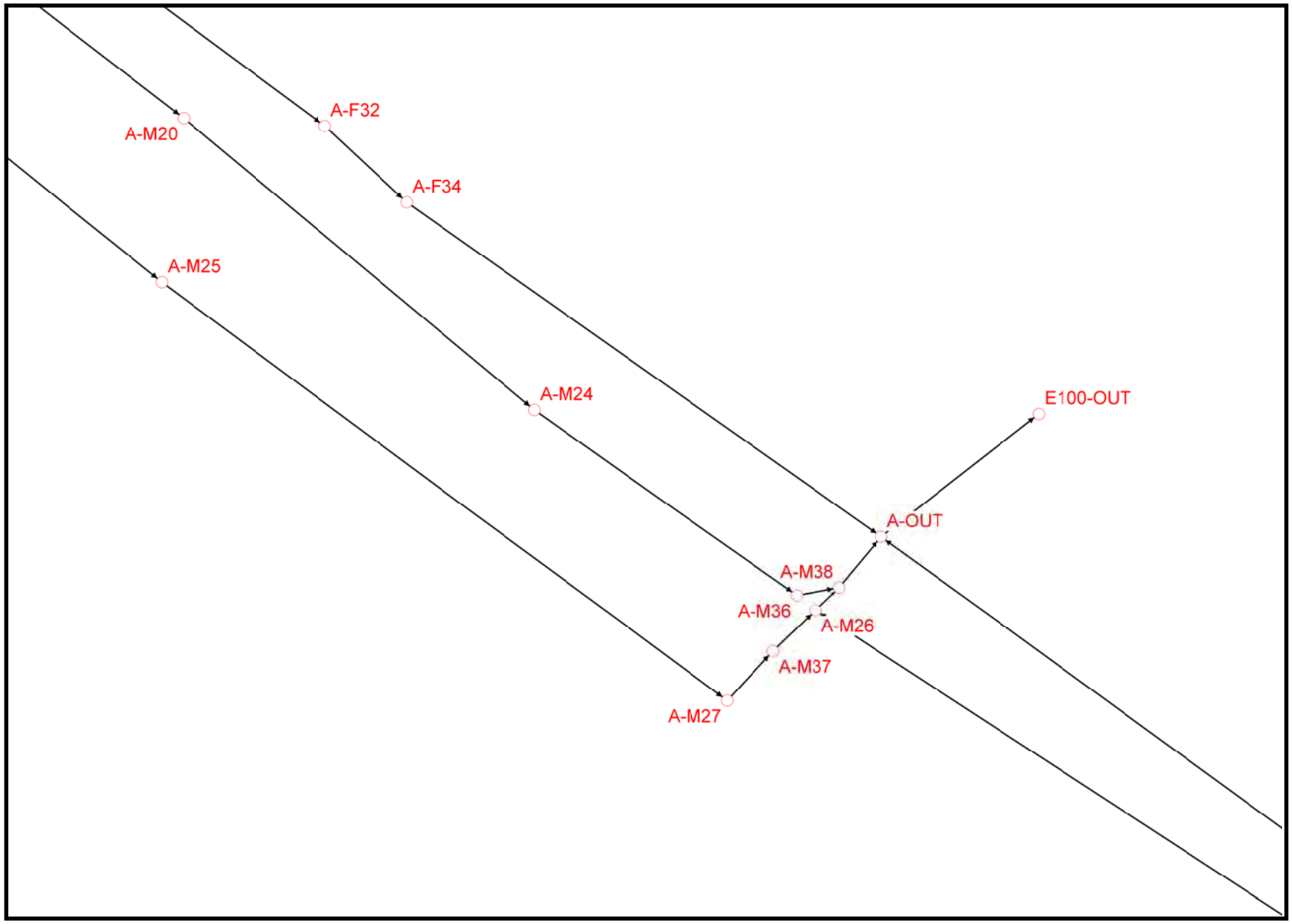
OUTFALL 1 & 2
EXISTING CONDITIONS SWMM LAYOUT



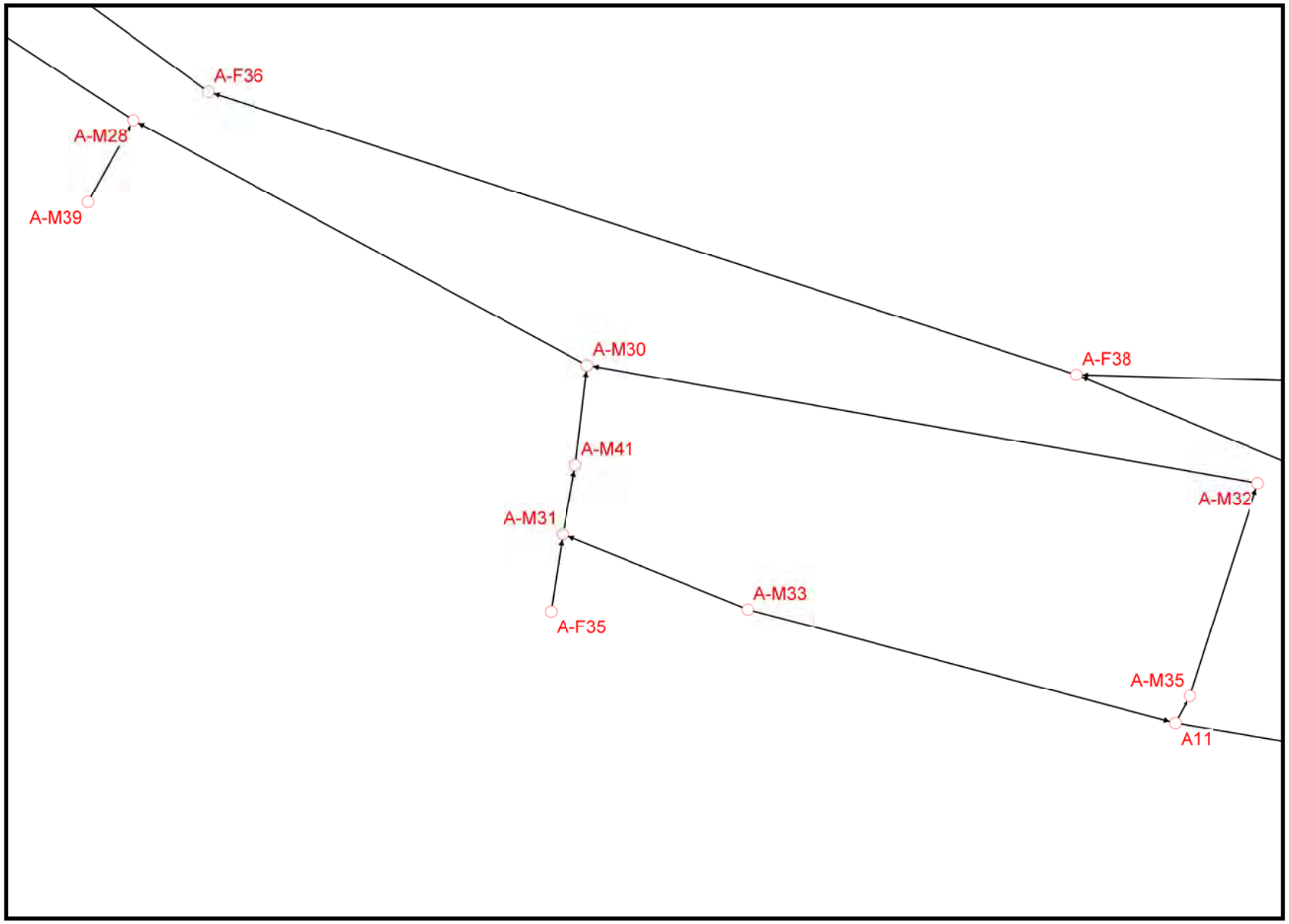
OUTFALL 1 & 2
EXISTING CONDITIONS SWMM LAYOUT



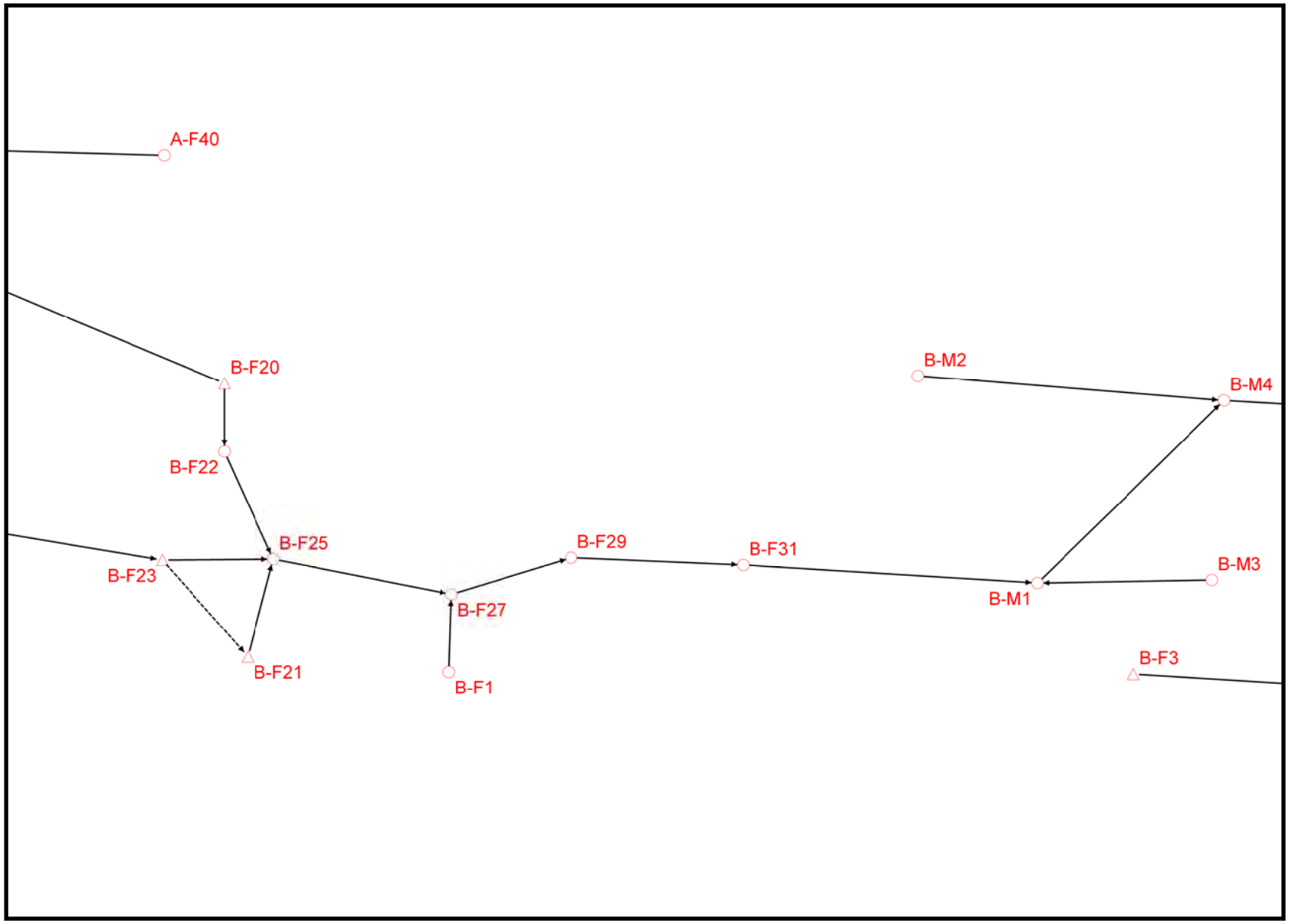
OUTFALL 1 & 2
EXISTING CONDITIONS SWMM LAYOUT



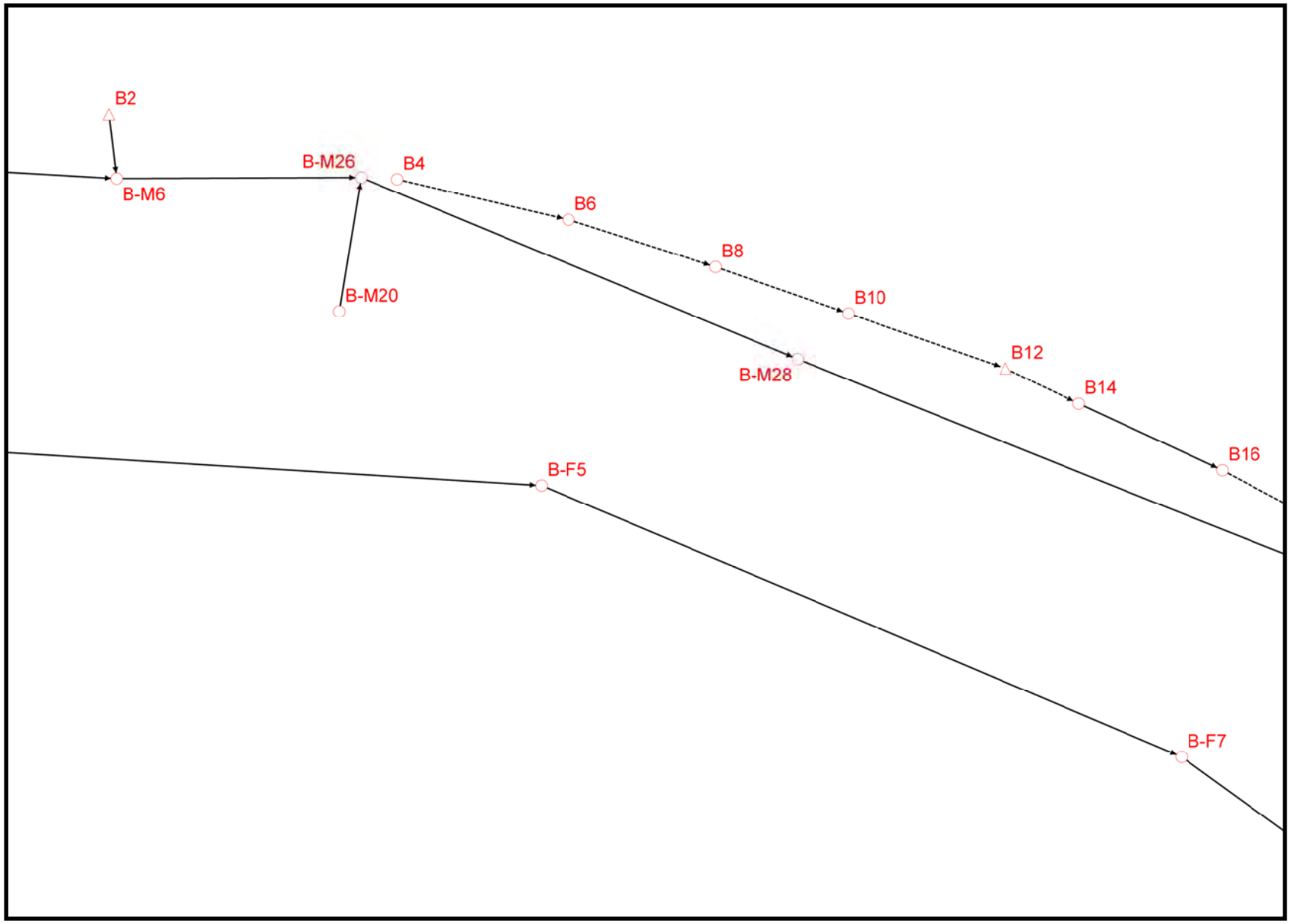
OUTFALL 1 & 2
EXISTING CONDITIONS SWMM LAYOUT



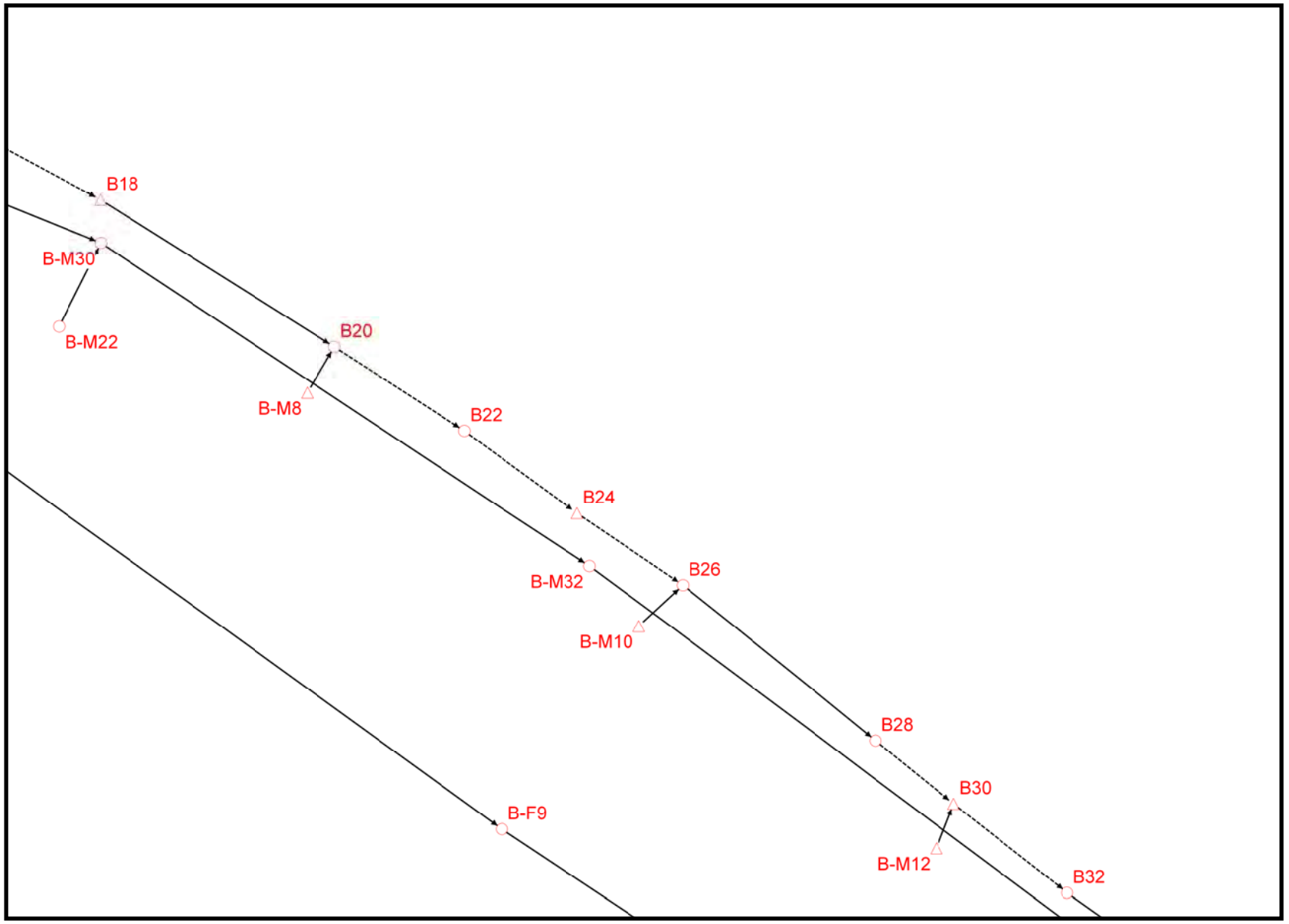
OUTFALL 1 & 2
EXISTING CONDITIONS SWMM LAYOUT



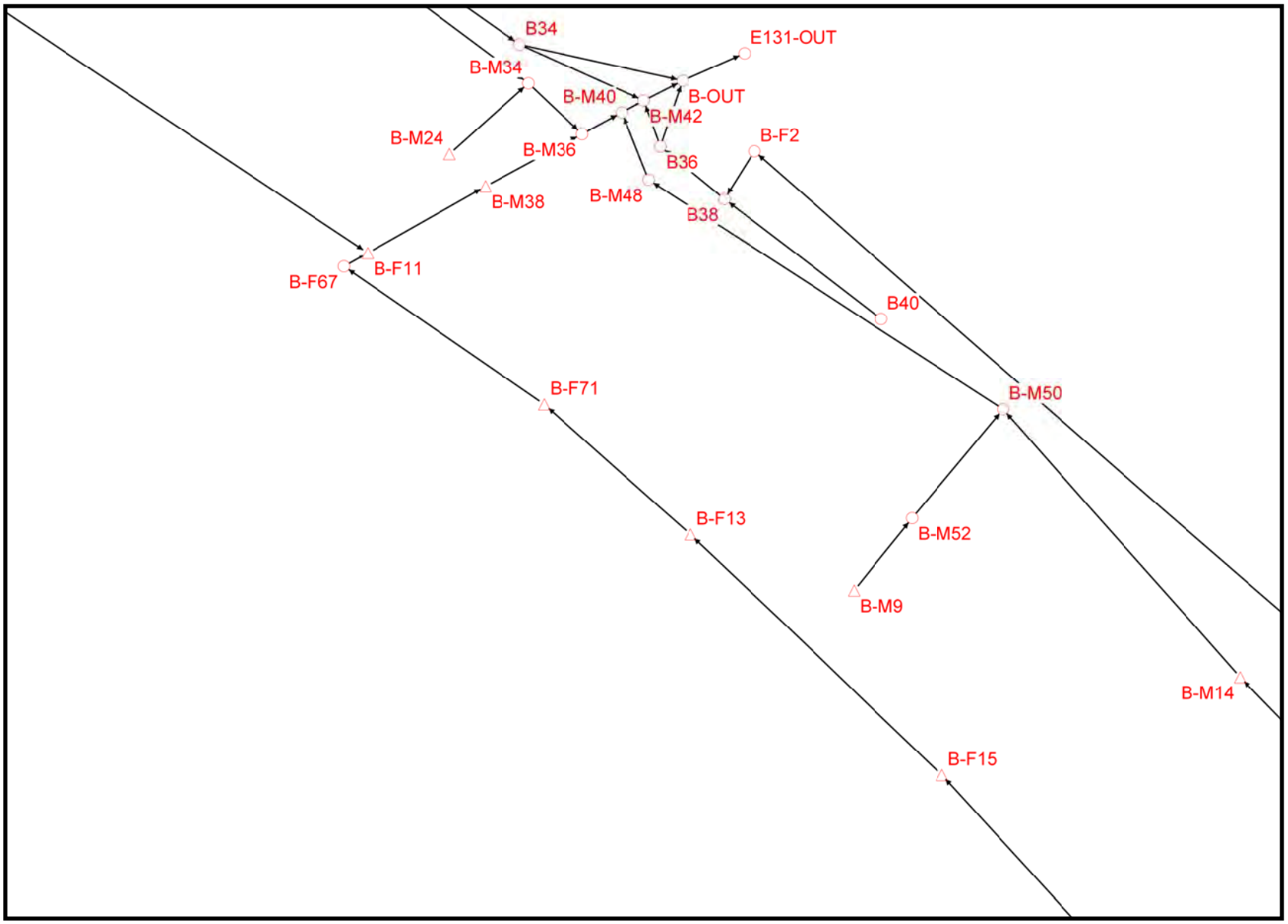
OUTFALL 1 & 2
EXISTING CONDITIONS SWMM LAYOUT



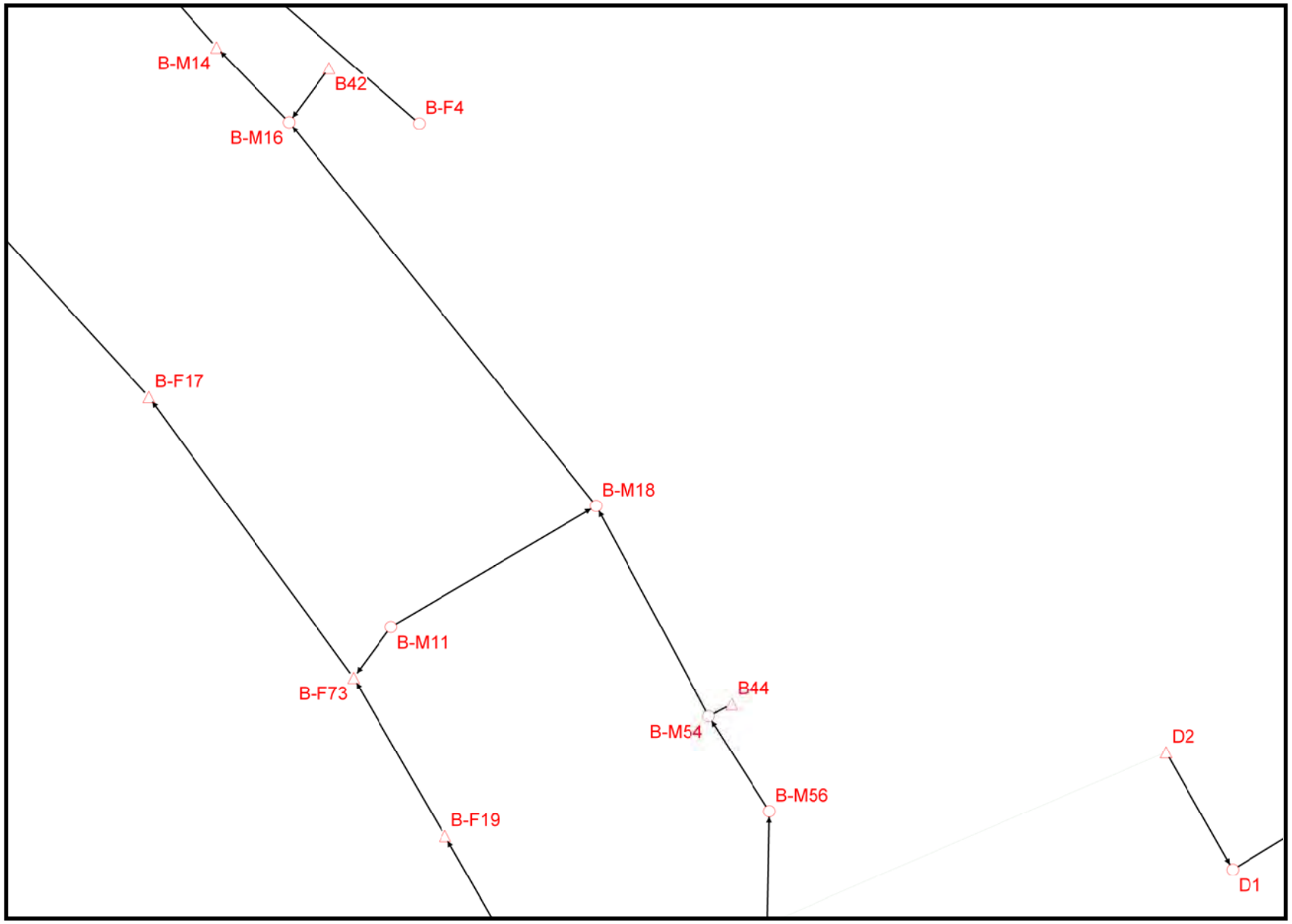
OUTFALL 1 & 2
EXISTING CONDITIONS SWMM LAYOUT



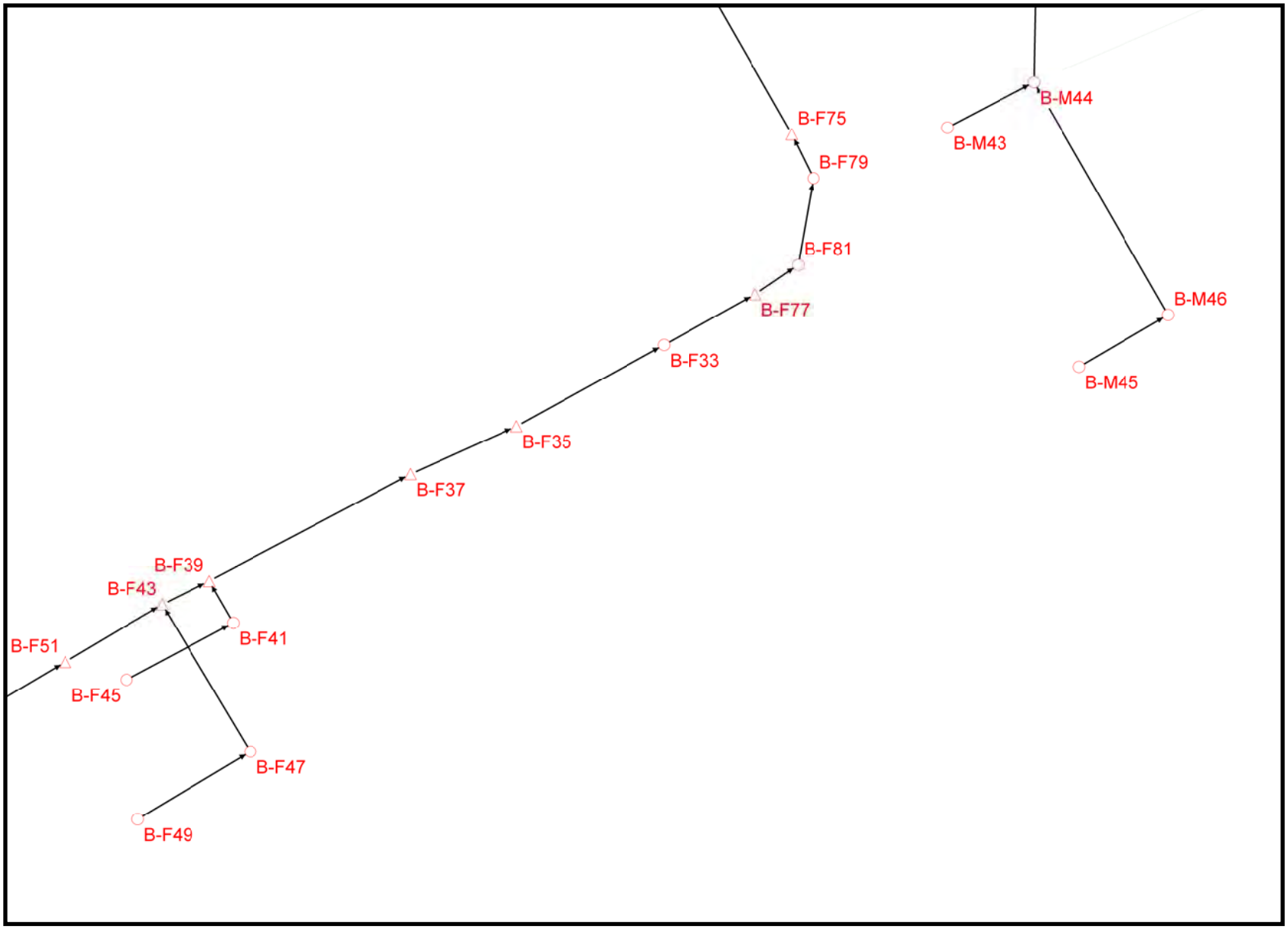
OUTFALL 1 & 2
EXISTING CONDITIONS SWMM LAYOUT



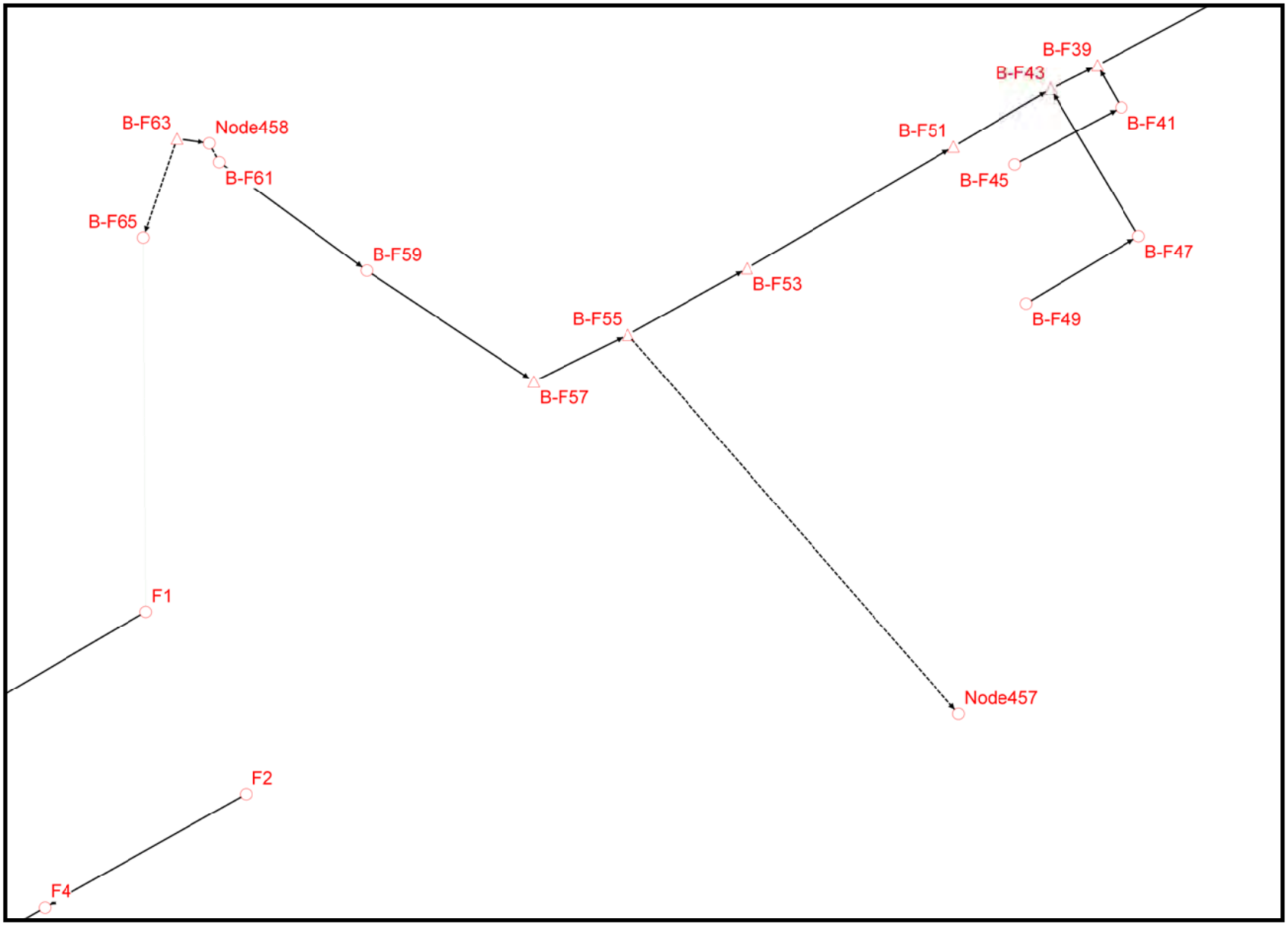
OUTFALL 1 & 2
EXISTING CONDITIONS SWMM LAYOUT



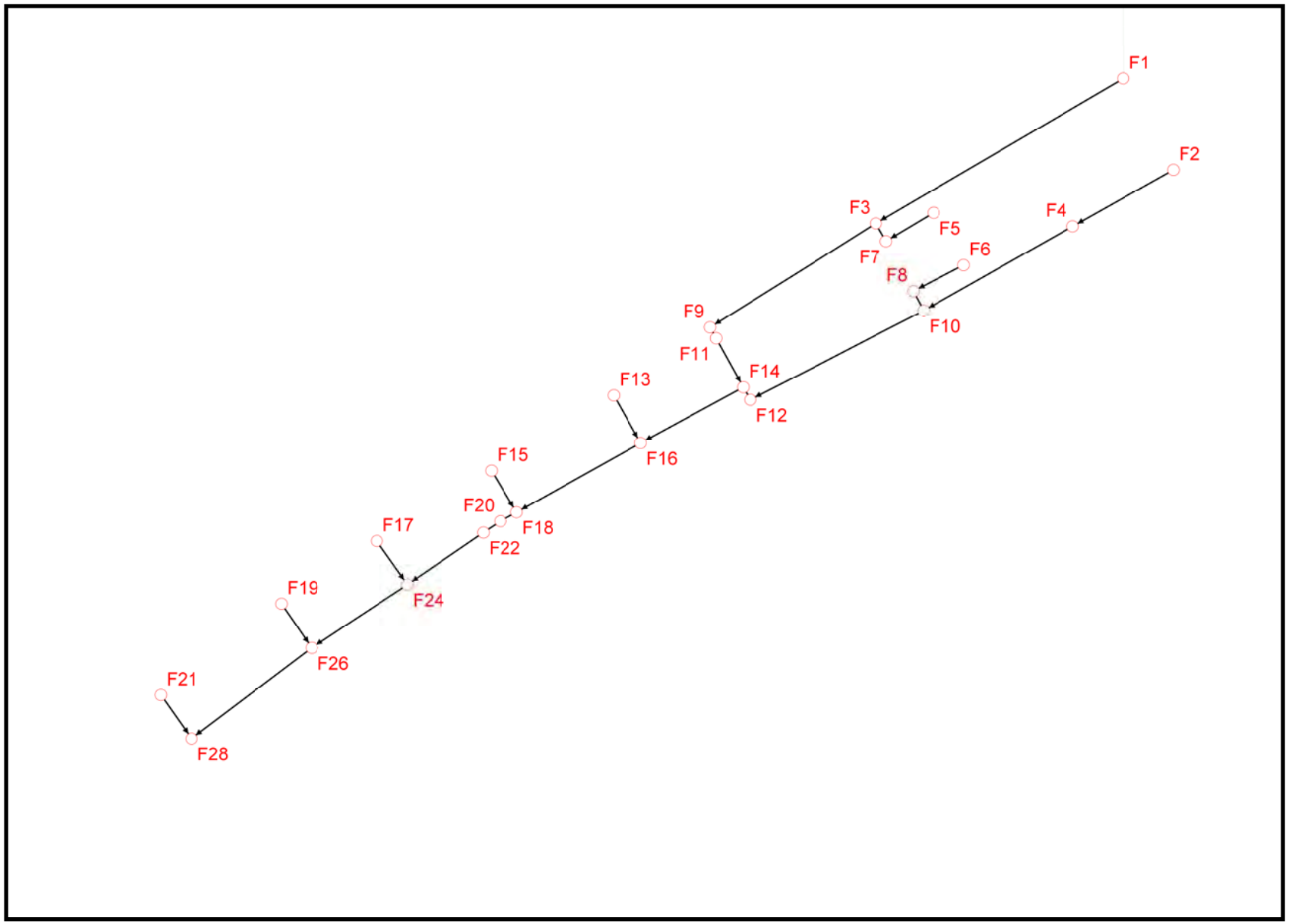
OUTFALL 1 & 2
EXISTING CONDITIONS SWMM LAYOUT



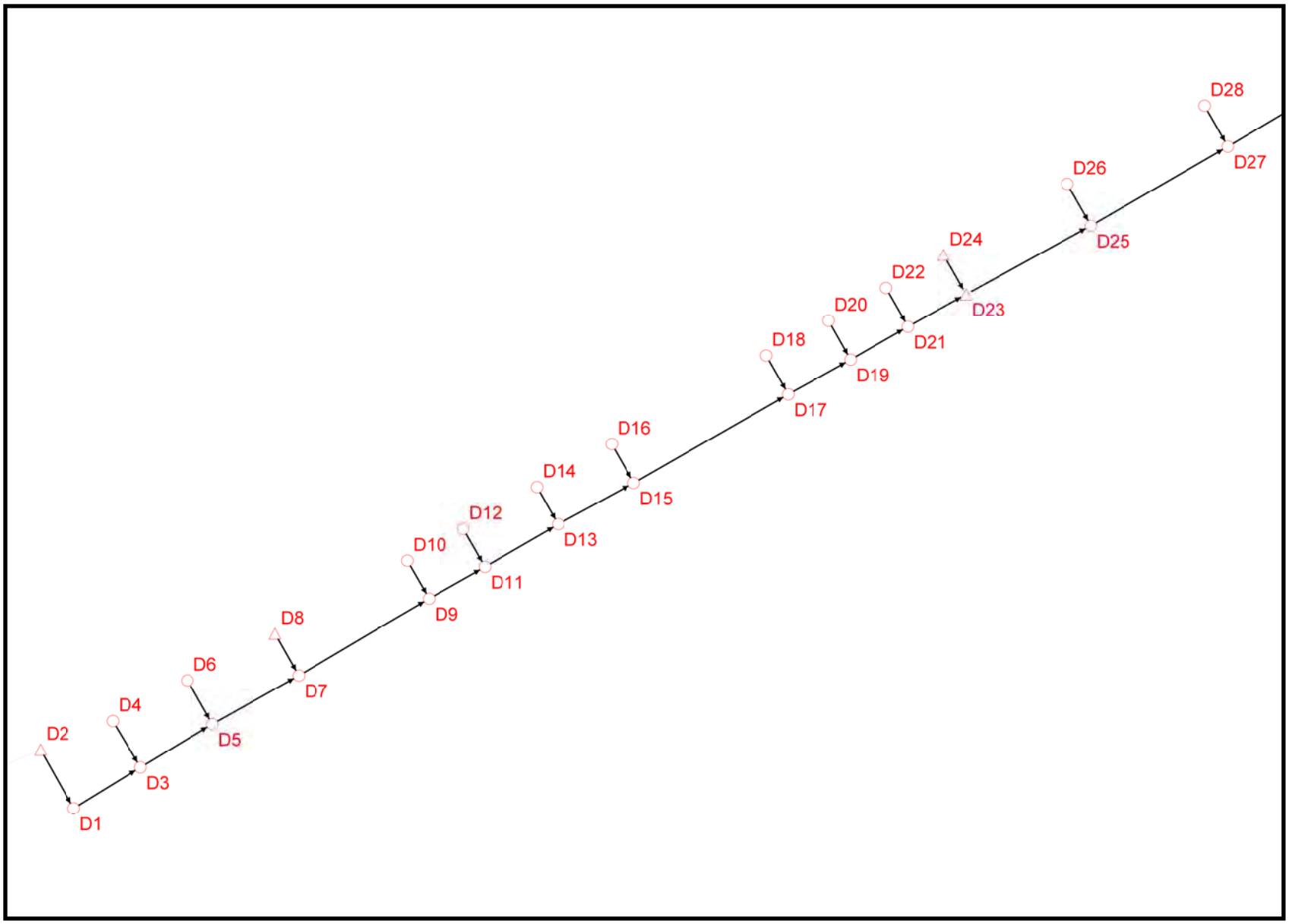
OUTFALL 1 & 2
EXISTING CONDITIONS SWMM LAYOUT



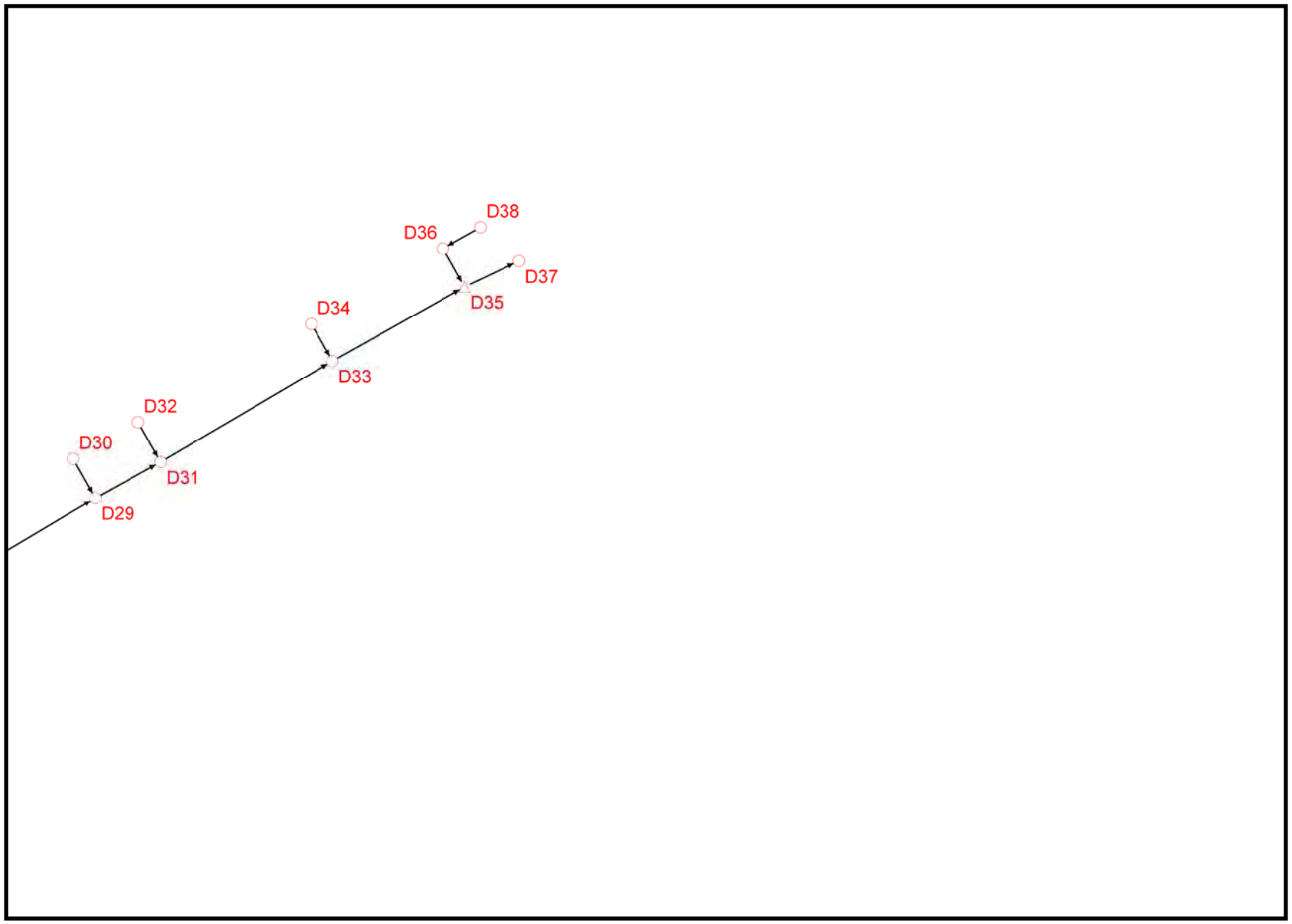
OUTFALL 3
EXISTING CONDITIONS SWMM LAYOUT



OUTFALL 4
EXISTING CONDITIONS SWMM LAYOUT



OUTFALL 4
EXISTING CONDITIONS SWMM LAYOUT



```
 Current Directory:   C:\XPS\xpstorm
 Engine Name: C:\XPS\xpstorm\SWMMEN~1.EXE


 Input File : S\290PMC\PhaseII\DRA\Models\SWMM\Segment E\100YR_SegE_Existing.XP

          *================================================*
          |                     xpswmm                     |
          |     Storm and Wastewater Management Model      |
          |           Interface Version: 10.52             |
          |              Engine Version: 10.54             |
          |================================================|
          |                                                |
          |                 Developed by                   |
          |                                                |
          |                 XP Software                    |
          |                                                |
          |================================================|
          |      XP Software       November, 2006          |
          |       Data File Version --->    11.9           |
          |       Serial Number: 66-1052-0602              |
          |                H & H Resources                 |
          *================================================*

Engine Name: C:\XPS\xpstorm\SWMMEN~1.EXE


*====================================================*
|       Input and Output file names by Layer         |
*====================================================*

 Input File  to Layer #     1 JOT.US
 Output File to Layer #     1 JOT.US

*============================================================*
|   Special command line arguments in XP-SWMM2000. This     |
|   now includes program defaults. $Keywords are the program|
|   defaults.  Other Keywords are from the SWMMCOM.CFG file.|
|   or the command line or any cfg file on the command line.|
|   Examples include these in the file xpswm.bat under the   |
|   section :solve or in the windows version XPSWMM32 in the|
|   file solve.bat                                           |
|                                                            |
|   Note: the cfg file should be in the subdirectory swmxp   |
|         or defined by the set variable in the xpswm.bat    |
|         file.  Some examples of the command lines possible|
|         are shown below:                                   |
|                                                            |
|   swmmd swmmcom.cfg                                        |
|   swmmd my.cfg                                             |
|   swmmd nokeys nconv5 perv extranwq                        |
*============================================================*

 $powerstation                        0.0000         1         2
 $perv                                0.0000         0         4
 $oldegg                              0.0000         0         7
 $as                                  0.0000         0        11
 $noflat                              0.0000         0        21
 $oldomega                            0.0000         0        24
 $oldvol                              0.0000         1        28
 $implicit                            0.0000         1        29
 $oldhot                              0.0000         1        31
 $oldscs                              0.0000         0        33
 $flood                               0.0000         1        40
 $nokeys                              0.0000         0        42
 $pzero                               0.0000         0        55
 $oldvol2                             0.0000         2        59
 $storage2                            0.0000         3        62
 $oldhot1                             0.0000         1        63
 $pumpwt                              0.0000         1        70
 $ecloss                              0.0000         1        77
 $exout                               0.0000         0        97
 $spatial = 0.90                      0.9000         5       124
 $djref = -1.0                       -0.1000         3       143
 $weirlen = 50                       50.0000         1       153
 $oldbnd                              0.0000         1       154
 $nogrelev                            0.0000         1       161
 $ncmid                               0.0000         0       164
 $new_nl_97                           0.0000         2       290
 $best97                              0.0000         1       294
 $newbound                            0.0000         1       295
 $q_tol = 0.01                        0.0001         1       316
 $new_storage                         0.0000         1       322
 $old_iteration                       0.0000         1       333
 $minlen=30.0                        30.0000         1       346
 $review_elevation                    0.0000         1       383
 $use_half_volume                     0.0000         1       385
 $min_ts = 0.5                        0.5000         1       407
 $design_restart = on                 0.0000         1       412
 $zero_value=1.e-05                   0.0000         1       415
 $relax_depth = on                    0.0000         1       427
 $saveallpts = on                     0.0000         1       434

 *============================================================*
 | Parameter Values on the Tapes Common Block.These are the |
 | values read from the data file and dynamically allocated |
 | by the model for this simulation.                        |
 *============================================================*

  Number of Subcatchments in the Runoff Block (NW)....     0
  Number of Channel/Pipes in the Runoff Block (NG)....     0
  Runoff Water quality constituents (NRQ).............     0
  Runoff Land Uses per Subcatchment (NLU).............     0
  Number of Elements in the Transport Block (NET).....     0
  Number of Storage Junctions in Transport (NTSE).....     0
  Number of Input Hydrographs in Transport (NTH)......     0
  Number of Elements in the Extran Block (NEE)........   267
  Number of Groundwater Subcatchments in Runoff (NGW).     0
  Number of Interface locations for all Blocks (NIE)..   267
  Number of Pumps in Extran (NEP).....................     0
  Number of Orifices in Extran (NEO)..................     1
  Number of Tide Gates/Free Outfalls in Extran (NTG)..     7
  Number of Extran Weirs (NEW)........................     2
  Number of scs hydrograph points.....................     1
  Number of Extran printout locations (NPO)...........     1
  Number of Tide elements in Extran (NTE).............     7
  Number of Natural channels (NNC)....................    36
  Number of Storage junctions in Extran (NVSE)........    41
  Number of Time history data points in Extran(NTVAL).     7
  Number of Variable storage elements in Extran (NVST)     4
  Number of Input Hydrographs in Extran (NEH).........   193
  Number of Particle sizes in Transport Block (NPS)...     0
  Number of User defined conduits (NHW)...............   267
  Number of Connecting conduits in Extran (NECC)......    20
  Number of Upstream elements in Transport (NTCC).....    10
  Number of Storage/treatment plants (NSTU)...........     1
```

```
 Number of Values for R1 lines in Transport (NR1)....     0
 Number of Nodes to be allowed for (NNOD)............   267
 Number of Plugs in a Storage Treatment Unit.........     1


####################################################
#    Entry made to the HYDRAULIC Layer(Block) of SWMM #
#    Last Updated June,2005 by XP Software           #



*==========================================================*
|        HYDRAULICS TABLES IN THE OUTPUT FILE              |
|  These are the more important tables in the output file. |
|  You can use your editor to find the table numbers,      |
|  for example: search for Table E20 to check continuity.  |
|  This output file can be imported into a Word Processor  |
|  and printed on US letter or A4 paper using portrait     |
|  mode, courier font, a size of 8 pt. and margins of 0.75 |
|                                                          |
| Table E1   - Basic Conduit Data                          |
| Table E2   - Conduit Factor Data                         |
| Table E3a  - Junction Data                               |
| Table E3b  - Junction Data                               |
| Table E4   - Conduit Connectivity Data                   |
| Table E4a  - Dry Weather Flow Data                       |
| Table E4b  - Real Time Control Data                      |
| Table E5   - Junction Time Step Limitation Summary       |
| Table E5a  - Conduit Explicit Condition Summary          |
| Table E6   - Final Model Condition                       |
| Table E7   - Iteration Summary                           |
| Table E8   - Junction Time Step Limitation Summary       |
| Table E9   - Junction  Summary  Statistics               |
| Table E10  - Conduit   Summary  Statistics               |
| Table E11  - Area assumptions used in the analysis       |
| Table E12  - Mean conduit information                    |
| Table E13  - Channel losses(H) and culvert info          |
| Table E13a - Culvert Analysis Classification             |
| Table E14  - Natural Channel Overbank Flow Information   |
| Table E14a - Natural Channel Encroachment Information    |
| Table E14b - Floodplain Mapping                          |
| Table E15  - Spreadsheet Info List                       |
| Table E15a - Spreadsheet Reach List                      |
| Table E16  - New Conduit Output Section                  |
| Table E17  - Pump Operation                              |
| Table E18  - Junction Continuity Error                   |
| Table E19  - Junction Inflow & Outflow Listing           |
| Table E20  - Junction Flooding and Volume List           |
| Table E21  - Continuity balance at simulation end        |
| Table E22  - Model Judgement Section                     |
*==========================================================*

Time Control from Hydraulics Job Control
Year.........    2007 Month.......       1
Day..........       1 Hour........       0
Minute.......       0 Second......       0


Control information for simulation
----------------------------------

Integration cycles..................     17280
Length of integration step is......      5.00 seconds
Simulation length...................     24.00 hours
Do not create equiv. pipes(NEQUAL)..        0
Use U.S. customary units for I/O...         0
Printing starts in cycle...........         1
Intermediate printout intervals of.       500 cycles
Intermediate printout intervals of.     41.67 minutes
Summary printout intervals of......       500 cycles
Summary printout time interval of..     41.67 minutes
Hot start file parameter (REDO)....         0
Initial time........................      0.00 hours

Iteration variables: Flow Tolerance.   0.00100
                     Head Tolerance.   0.00100
    Minimum depth (m or ft).........   0.00001
    Underrelaxation parameter.......   0.85000
    Time weighting parameter........   0.85000
    Conduit roughness factor........   1.00000
    Flow adjustment factor..........   1.00000
    Initial Condition Smoothing.....         0
    Courant Time Step Factor........   1.00000
    Default Expansion/Contraction K.   0.00000
    Default Entrance/Exit K.........   0.00000
    Routing Method..................   Dynamic Wave
Default surface area of junctions...     12.57 square feet.
Minimum Junction/Conduit Depth......   0.00001 feet.
Ponding Area Coefficient............   5000.00
Ponding Area Exponent...............    1.0000
Minimum Orifice Length..............    500.00 feet.
NJSW input hydrograph junctions.....   193
     or user defined hydrographs....

Printed output for the following  1 Conduits

    E131

Flow rate will be plotted for the following   1 Conduits

    E131

        Natural Cross-Section information for Channel A16-AF4
        =====================================================
         Cross-Section ID (from X1 card) :     1.0 Channel sequence number :     1

  Left Overbank Length   :    612.0 ft               Maximum Elevation        :   135.40 ft.
  Main Channel Length    :    612.0 ft               Maximum Depth            :     3.50 ft.
  Right Overbank Length  :    612.0 ft               Maximum Section Area     :  48.8926 ft^2
                                                     Maximum hydraulic radius :     1.45 ft.
  Manning N :      0.045  to Station           9.5    Max topwidth             :    32.89 ft.
    "    "  :      0.035  in main Channel             Maximum Wetted Perimeter : 3.38E+01 ft
    "    "  :      0.015  Beyond station      39.4    Max left bank area       :     0.00 ft^2
                                                     Max right bank area      :     0.68 ft^2
  Allowable Encroachment Depth :    0.00 ft          Max center channel area  :  48.2166 ft^2

        Natural Cross-Section information for Channel AF6-AF8
        =====================================================
         Cross-Section ID (from X1 card) :     2.0 Channel sequence number :     2

  Left Overbank Length   :    362.0 ft               Maximum Elevation        :   133.00 ft.
  Main Channel Length    :    362.0 ft               Maximum Depth            :     2.20 ft.
  Right Overbank Length  :    362.0 ft               Maximum Section Area     :  18.1012 ft^2
                                                     Maximum hydraulic radius :     0.97 ft.
  Manning N :      0.045  to Station          12.5    Max topwidth             :    18.13 ft.
    "    "  :      0.035  in main Channel             Maximum Wetted Perimeter : 1.87E+01 ft
```

```
  "    "  :      0.015  Beyond station      34.1    Max left bank area       :     0.03 ft^2
                                                    Max right bank area      :     0.00 ft^2
Allowable Encroachment Depth :    0.00 ft           Max center channel area  :  18.0746 ft^2

      Natural Cross-Section information for Channel AF10-AF12
      =======================================================
       Cross-Section ID (from X1 card) :     3.0 Channel sequence number :     3

Left Overbank Length   :    220.0 ft               Maximum Elevation        :   133.80 ft.
Main Channel Length    :    220.0 ft               Maximum Depth            :     3.50 ft.
Right Overbank Length  :    220.0 ft               Maximum Section Area     :  39.7481 ft^2
                                                   Maximum hydraulic radius :     1.39 ft.
Manning N :      0.045  to Station          11.4    Max topwidth             :    27.38 ft.
  "    "  :      0.035  in main Channel             Maximum Wetted Perimeter : 2.85E+01 ft
  "    "  :      0.015  Beyond station      34.6    Max left bank area       :     0.40 ft^2
                                                    Max right bank area      :     0.00 ft^2
Allowable Encroachment Depth :    0.00 ft           Max center channel area  :  39.3457 ft^2

      Natural Cross-Section information for Channel AF14-AF16
      =======================================================
       Cross-Section ID (from X1 card) :     4.0 Channel sequence number :     4

Left Overbank Length   :    348.0 ft               Maximum Elevation        :   133.59 ft.
Main Channel Length    :    348.0 ft               Maximum Depth            :     3.00 ft.
Right Overbank Length  :    348.0 ft               Maximum Section Area     :  49.4369 ft^2
                                                   Maximum hydraulic radius :     1.02 ft.
Manning N :      0.045  to Station          25.7    Max topwidth             :    47.59 ft.
  "    "  :      0.035  in main Channel             Maximum Wetted Perimeter : 4.82E+01 ft
  "    "  :      0.015  Beyond station      50.4    Max left bank area       :    13.32 ft^2
                                                    Max right bank area      :     0.00 ft^2
Allowable Encroachment Depth :    0.00 ft           Max center channel area  :  36.1187 ft^2

      Natural Cross-Section information for Channel AF18-AF20
      =======================================================
       Cross-Section ID (from X1 card) :     5.0 Channel sequence number :     5

Left Overbank Length   :    216.0 ft               Maximum Elevation        :   133.44 ft.
Main Channel Length    :    216.0 ft               Maximum Depth            :     2.75 ft.
Right Overbank Length  :    216.0 ft               Maximum Section Area     :  42.5996 ft^2
                                                   Maximum hydraulic radius :     0.82 ft.
Manning N :      0.045  to Station          31.3    Max topwidth             :    51.46 ft.
  "    "  :      0.035  in main Channel             Maximum Wetted Perimeter : 5.20E+01 ft
  "    "  :      0.015  Beyond station      54.5    Max left bank area       :    11.92 ft^2
                                                    Max right bank area      :     0.00 ft^2
Allowable Encroachment Depth :    0.00 ft           Max center channel area  :  30.6803 ft^2

      Natural Cross-Section information for Channel AF22-AF24
      =======================================================
       Cross-Section ID (from X1 card) :     6.0 Channel sequence number :     6

Left Overbank Length   :    597.0 ft               Maximum Elevation        :   133.25 ft.
Main Channel Length    :    597.0 ft               Maximum Depth            :     3.00 ft.
Right Overbank Length  :    597.0 ft               Maximum Section Area     :  50.1738 ft^2
                                                   Maximum hydraulic radius :     1.24 ft.
Manning N :      0.045  to Station          16.6    Max topwidth             :    39.80 ft.
  "    "  :      0.035  in main Channel             Maximum Wetted Perimeter : 4.04E+01 ft
  "    "  :      0.015  Beyond station      41.0    Max left bank area       :    10.92 ft^2
                                                    Max right bank area      :     0.00 ft^2
Allowable Encroachment Depth :    0.00 ft           Max center channel area  :  39.2555 ft^2

      Natural Cross-Section information for Channel AF26-AF28
      =======================================================
       Cross-Section ID (from X1 card) :     7.0 Channel sequence number :     7

Left Overbank Length   :    736.0 ft               Maximum Elevation        :   133.33 ft.
Main Channel Length    :    736.0 ft               Maximum Depth            :     3.80 ft.
Right Overbank Length  :    736.0 ft               Maximum Section Area     :  47.2969 ft^2
                                                   Maximum hydraulic radius :     1.49 ft.
Manning N :      0.045  to Station          16.8    Max topwidth             :    30.49 ft.
  "    "  :      0.035  in main Channel             Maximum Wetted Perimeter : 3.17E+01 ft
  "    "  :      0.015  Beyond station      40.7    Max left bank area       :     0.00 ft^2
                                                    Max right bank area      :     0.89 ft^2
Allowable Encroachment Depth :    0.00 ft           Max center channel area  :  46.4070 ft^2

      Natural Cross-Section information for Channel AF30-AF32
      =======================================================
       Cross-Section ID (from X1 card) :     8.0 Channel sequence number :     8

Left Overbank Length   :    525.0 ft               Maximum Elevation        :   131.73 ft.
Main Channel Length    :    525.0 ft               Maximum Depth            :     3.00 ft.
Right Overbank Length  :    525.0 ft               Maximum Section Area     :  31.4874 ft^2
                                                   Maximum hydraulic radius :     1.42 ft.
Manning N :      0.045  to Station          22.3    Max topwidth             :    21.33 ft.
  "    "  :      0.035  in main Channel             Maximum Wetted Perimeter : 2.22E+01 ft
  "    "  :      0.015  Beyond station      46.4    Max left bank area       :     0.00 ft^2
                                                    Max right bank area      :     0.00 ft^2
Allowable Encroachment Depth :    0.00 ft           Max center channel area  :  31.4874 ft^2

      Natural Cross-Section information for Channel AF34-AOUT
      =======================================================
       Cross-Section ID (from X1 card) :     9.0 Channel sequence number :     9

Left Overbank Length   :    520.0 ft               Maximum Elevation        :   130.91 ft.
Main Channel Length    :    520.0 ft               Maximum Depth            :     4.00 ft.
Right Overbank Length  :    520.0 ft               Maximum Section Area     :  52.4033 ft^2
                                                   Maximum hydraulic radius :     1.65 ft.
Manning N :      0.045  to Station           7.0    Max topwidth             :    30.46 ft.
  "    "  :      0.035  in main Channel             Maximum Wetted Perimeter : 3.17E+01 ft
  "    "  :      0.015  Beyond station      43.5    Max left bank area       :     0.00 ft^2
                                                    Max right bank area      :     0.00 ft^2
Allowable Encroachment Depth :    0.00 ft           Max center channel area  :  52.4033 ft^2

      Natural Cross-Section information for Channel AF36-AOUT
      =======================================================
       Cross-Section ID (from X1 card) :    10.0 Channel sequence number :    10

Left Overbank Length   :    585.0 ft               Maximum Elevation        :   130.08 ft.
Main Channel Length    :    585.0 ft               Maximum Depth            :     2.50 ft.
Right Overbank Length  :    585.0 ft               Maximum Section Area     :  25.5580 ft^2
                                                   Maximum hydraulic radius :     1.06 ft.
Manning N :      0.045  to Station          21.3    Max topwidth             :    23.52 ft.
  "    "  :      0.035  in main Channel             Maximum Wetted Perimeter : 2.41E+01 ft
  "    "  :      0.015  Beyond station      56.5    Max left bank area       :     0.00 ft^2
                                                    Max right bank area      :     0.00 ft^2
Allowable Encroachment Depth :    0.00 ft           Max center channel area  :  25.5580 ft^2

      Natural Cross-Section information for Channel AF38-AF36
      =======================================================
       Cross-Section ID (from X1 card) :    11.0 Channel sequence number :    11

Left Overbank Length   :    774.0 ft               Maximum Elevation        :   130.27 ft.
Main Channel Length    :    774.0 ft               Maximum Depth            :     2.50 ft.
Right Overbank Length  :    774.0 ft               Maximum Section Area     :  96.2876 ft^2
                                                   Maximum hydraulic radius :     1.13 ft.
Manning N :      0.045  to Station          57.1    Max topwidth             :    85.14 ft.
  "    "  :      0.035  in main Channel             Maximum Wetted Perimeter : 8.55E+01 ft
  "    "  :      0.015  Beyond station      87.0    Max left bank area       :    56.66 ft^2
                                                    Max right bank area      :     0.00 ft^2
```

Allowable Encroachment Depth : 0.00 ft Max center channel area : 39.6258 ft^2

Natural Cross-Section information for Channel AF40-AF38
Cross-Section ID (from X1 card) : 12.0 Channel sequence number : 12

Left Overbank Length : 484.0 ft Maximum Elevation : 129.56 ft.
Main Channel Length : 484.0 ft Maximum Depth : 1.50 ft.
Right Overbank Length : 484.0 ft Maximum Section Area : 13.7513 ft^2
Maximum hydraulic radius : 0.43 ft.
Manning N : 0.045 to Station 104.5 Max topwidth : 31.80 ft.
" " : 0.035 in main Channel Maximum Wetted Perimeter : 3.20E+01 ft
" " : 0.015 Beyond station 125.0 Max left bank area : 0.68 ft^2
Max right bank area : 0.00 ft^2
Allowable Encroachment Depth : 0.00 ft Max center channel area : 13.0692 ft^2

Natural Cross-Section information for Channel AM4-AM6
Cross-Section ID (from X1 card) : 13.0 Channel sequence number : 13

Left Overbank Length : 997.0 ft Maximum Elevation : 137.62 ft.
Main Channel Length : 997.0 ft Maximum Depth : 3.40 ft.
Right Overbank Length : 997.0 ft Maximum Section Area : 93.9194 ft^2
Maximum hydraulic radius : 1.58 ft.
Manning N : 0.015 to Station 14.4 Max topwidth : 59.10 ft.
" " : 0.035 in main Channel Maximum Wetted Perimeter : 5.96E+01 ft
" " : 0.015 Beyond station 74.0 Max left bank area : 12.07 ft^2
Max right bank area : 0.00 ft^2
Allowable Encroachment Depth : 0.00 ft Max center channel area : 81.8492 ft^2

Natural Cross-Section information for Channel AM6-AM8
Cross-Section ID (from X1 card) : 14.0 Channel sequence number : 14

Left Overbank Length : 221.0 ft Maximum Elevation : 137.12 ft.
Main Channel Length : 221.0 ft Maximum Depth : 4.00 ft.
Right Overbank Length : 221.0 ft Maximum Section Area : 85.7922 ft^2
Maximum hydraulic radius : 1.60 ft.
Manning N : 0.015 to Station 14.4 Max topwidth : 52.96 ft.
" " : 0.035 in main Channel Maximum Wetted Perimeter : 5.37E+01 ft
" " : 0.015 Beyond station 53.8 Max left bank area : 7.85 ft^2
Max right bank area : 0.00 ft^2
Allowable Encroachment Depth : 0.00 ft Max center channel area : 77.9399 ft^2

Natural Cross-Section information for Channel AM12-AM14
Cross-Section ID (from X1 card) : 15.0 Channel sequence number : 15

Left Overbank Length : 658.0 ft Maximum Elevation : 135.02 ft.
Main Channel Length : 658.0 ft Maximum Depth : 3.40 ft.
Right Overbank Length : 658.0 ft Maximum Section Area : 107.8099 ft^2
Maximum hydraulic radius : 1.99 ft.
Manning N : 0.015 to Station 10.9 Max topwidth : 53.40 ft.
" " : 0.035 in main Channel Maximum Wetted Perimeter : 5.42E+01 ft
" " : 0.015 Beyond station 60.3 Max left bank area : 0.17 ft^2
Max right bank area : 0.00 ft^2
Allowable Encroachment Depth : 0.00 ft Max center channel area : 107.6404 ft^2

Natural Cross-Section information for Channel AM14-AM16
Cross-Section ID (from X1 card) : 16.0 Channel sequence number : 16

Left Overbank Length : 747.0 ft Maximum Elevation : 133.41 ft.
Main Channel Length : 747.0 ft Maximum Depth : 3.00 ft.
Right Overbank Length : 747.0 ft Maximum Section Area : 82.0970 ft^2
Maximum hydraulic radius : 1.93 ft.
Manning N : 0.015 to Station 12.0 Max topwidth : 42.01 ft.
" " : 0.035 in main Channel Maximum Wetted Perimeter : 4.26E+01 ft
" " : 0.015 Beyond station 61.8 Max left bank area : 0.00 ft^2
Max right bank area : 0.00 ft^2
Allowable Encroachment Depth : 0.00 ft Max center channel area : 82.0970 ft^2

Natural Cross-Section information for Channel AM3-AM5
Cross-Section ID (from X1 card) : 17.0 Channel sequence number : 17

Left Overbank Length : 503.0 ft Maximum Elevation : 140.57 ft.
Main Channel Length : 503.0 ft Maximum Depth : 3.50 ft.
Right Overbank Length : 503.0 ft Maximum Section Area : 93.9694 ft^2
Maximum hydraulic radius : 1.64 ft.
Manning N : 0.015 to Station 14.9 Max topwidth : 56.82 ft.
" " : 0.035 in main Channel Maximum Wetted Perimeter : 5.73E+01 ft
" " : 0.015 Beyond station 70.1 Max left bank area : 0.00 ft^2
Max right bank area : 13.63 ft^2
Allowable Encroachment Depth : 0.00 ft Max center channel area : 80.3417 ft^2

Natural Cross-Section information for Channel AM5-AM7
Cross-Section ID (from X1 card) : 18.0 Channel sequence number : 18

Left Overbank Length : 306.0 ft Maximum Elevation : 137.39 ft.
Main Channel Length : 306.0 ft Maximum Depth : 3.50 ft.
Right Overbank Length : 306.0 ft Maximum Section Area : 59.7353 ft^2
Maximum hydraulic radius : 1.65 ft.
Manning N : 0.015 to Station 10.3 Max topwidth : 35.48 ft.
" " : 0.035 in main Channel Maximum Wetted Perimeter : 3.62E+01 ft
" " : 0.015 Beyond station 55.8 Max left bank area : 0.00 ft^2
Max right bank area : 0.00 ft^2
Allowable Encroachment Depth : 0.00 ft Max center channel area : 59.7353 ft^2

Natural Cross-Section information for Channel AM9-AM7
Cross-Section ID (from X1 card) : 19.0 Channel sequence number : 19

Left Overbank Length : 500.0 ft Maximum Elevation : 138.44 ft.
Main Channel Length : 500.0 ft Maximum Depth : 3.50 ft.
Right Overbank Length : 500.0 ft Maximum Section Area : 81.8943 ft^2
Maximum hydraulic radius : 1.58 ft.
Manning N : 0.015 to Station 19.7 Max topwidth : 51.13 ft.
" " : 0.035 in main Channel Maximum Wetted Perimeter : 5.17E+01 ft
" " : 0.015 Beyond station 53.8 Max left bank area : 19.21 ft^2
Max right bank area : 0.00 ft^2
Allowable Encroachment Depth : 0.00 ft Max center channel area : 62.6863 ft^2

Natural Cross-Section information for Channel AM11-AM13
Cross-Section ID (from X1 card) : 20.0 Channel sequence number : 20

Left Overbank Length : 275.0 ft Maximum Elevation : 135.31 ft.
Main Channel Length : 275.0 ft Maximum Depth : 0.50 ft.
Right Overbank Length : 275.0 ft Maximum Section Area : 3.5345 ft^2
Maximum hydraulic radius : 0.25 ft.
Manning N : 0.015 to Station 10.8 Max topwidth : 14.14 ft.
" " : 0.035 in main Channel Maximum Wetted Perimeter : 1.42E+01 ft
" " : 0.015 Beyond station 45.7 Max left bank area : 0.00 ft^2
Max right bank area : 0.00 ft^2
Allowable Encroachment Depth : 0.00 ft Max center channel area : 3.5345 ft^2

Natural Cross-Section information for Channel AM13-AM15
==========
Cross-Section ID (from X1 card) : 21.0 Channel sequence number : 21

Left Overbank Length	: 478.0 ft			Maximum Elevation	: 135.27 ft.
Main Channel Length	: 478.0 ft			Maximum Depth	: 1.50 ft.
Right Overbank Length	: 478.0 ft			Maximum Section Area	: 25.4281 ft^2
				Maximum hydraulic radius	: 0.75 ft.
Manning N :	0.015	to Station	14.8	Max topwidth	: 33.77 ft.
" " :	0.035	in main Channel		Maximum Wetted Perimeter	: 3.39E+01 ft
" " :	0.015	Beyond station	57.4	Max left bank area	: 0.00 ft^2
				Max right bank area	: 0.00 ft^2
Allowable Encroachment Depth :	0.00 ft			Max center channel area	: 25.4281 ft^2

Natural Cross-Section information for Channel AM15-AM17
==========
Cross-Section ID (from X1 card) : 22.0 Channel sequence number : 22

Left Overbank Length	: 507.0 ft			Maximum Elevation	: 135.20 ft.
Main Channel Length	: 507.0 ft			Maximum Depth	: 1.50 ft.
Right Overbank Length	: 507.0 ft			Maximum Section Area	: 31.3183 ft^2
				Maximum hydraulic radius	: 0.74 ft.
Manning N :	0.015	to Station	17.9	Max topwidth	: 42.43 ft.
" " :	0.035	in main Channel		Maximum Wetted Perimeter	: 4.25E+01 ft
" " :	0.015	Beyond station	60.9	Max left bank area	: 0.00 ft^2
				Max right bank area	: 0.00 ft^2
Allowable Encroachment Depth :	0.00 ft			Max center channel area	: 31.3182 ft^2

Natural Cross-Section information for Channel AM17-AM19
==========
Cross-Section ID (from X1 card) : 23.0 Channel sequence number : 23

Left Overbank Length	: 619.0 ft			Maximum Elevation	: 134.44 ft.
Main Channel Length	: 619.0 ft			Maximum Depth	: 1.50 ft.
Right Overbank Length	: 619.0 ft			Maximum Section Area	: 27.8993 ft^2
				Maximum hydraulic radius	: 0.75 ft.
Manning N :	0.015	to Station	19.9	Max topwidth	: 36.92 ft.
" " :	0.035	in main Channel		Maximum Wetted Perimeter	: 3.70E+01 ft
" " :	0.015	Beyond station	62.8	Max left bank area	: 0.00 ft^2
				Max right bank area	: 0.00 ft^2
Allowable Encroachment Depth :	0.00 ft			Max center channel area	: 27.8993 ft^2

Natural Cross-Section information for Channel AM21-AM19
==========
Cross-Section ID (from X1 card) : 24.0 Channel sequence number : 24

Left Overbank Length	: 446.0 ft			Maximum Elevation	: 134.14 ft.
Main Channel Length	: 446.0 ft			Maximum Depth	: 1.50 ft.
Right Overbank Length	: 446.0 ft			Maximum Section Area	: 22.6230 ft^2
				Maximum hydraulic radius	: 0.75 ft.
Manning N :	0.015	to Station	19.7	Max topwidth	: 30.14 ft.
" " :	0.035	in main Channel		Maximum Wetted Perimeter	: 3.03E+01 ft
" " :	0.015	Beyond station	59.2	Max left bank area	: 0.00 ft^2
				Max right bank area	: 0.00 ft^2
Allowable Encroachment Depth :	0.00 ft			Max center channel area	: 22.6230 ft^2

Natural Cross-Section information for Channel AM23-AM25
==========
Cross-Section ID (from X1 card) : 25.0 Channel sequence number : 25

Left Overbank Length	: 525.0 ft			Maximum Elevation	: 134.49 ft.
Main Channel Length	: 525.0 ft			Maximum Depth	: 1.00 ft.
Right Overbank Length	: 525.0 ft			Maximum Section Area	: 19.7691 ft^2
				Maximum hydraulic radius	: 0.49 ft.
Manning N :	0.015	to Station	19.6	Max topwidth	: 40.12 ft.
" " :	0.035	in main Channel		Maximum Wetted Perimeter	: 4.02E+01 ft
" " :	0.015	Beyond station	63.8	Max left bank area	: 0.00 ft^2
				Max right bank area	: 0.00 ft^2
Allowable Encroachment Depth :	0.00 ft			Max center channel area	: 19.7691 ft^2

Natural Cross-Section information for Channel AM25-AM27
==========
Cross-Section ID (from X1 card) : 26.0 Channel sequence number : 26

Left Overbank Length	: 645.0 ft			Maximum Elevation	: 133.89 ft.
Main Channel Length	: 645.0 ft			Maximum Depth	: 2.00 ft.
Right Overbank Length	: 645.0 ft			Maximum Section Area	: 46.7287 ft^2
				Maximum hydraulic radius	: 1.00 ft.
Manning N :	0.015	to Station	16.2	Max topwidth	: 46.46 ft.
" " :	0.035	in main Channel		Maximum Wetted Perimeter	: 4.67E+01 ft
" " :	0.015	Beyond station	57.3	Max left bank area	: 0.09 ft^2
				Max right bank area	: 0.00 ft^2
Allowable Encroachment Depth :	0.00 ft			Max center channel area	: 46.6434 ft^2

Natural Cross-Section information for Channel BF3-BF5
==========
Cross-Section ID (from X1 card) : 27.0 Channel sequence number : 27

Left Overbank Length	: 655.0 ft			Maximum Elevation	: 128.42 ft.
Main Channel Length	: 655.0 ft			Maximum Depth	: 1.00 ft.
Right Overbank Length	: 655.0 ft			Maximum Section Area	: 21.1981 ft^2
				Maximum hydraulic radius	: 0.40 ft.
Manning N :	0.015	to Station	14.6	Max topwidth	: 52.99 ft.
" " :	0.035	in main Channel		Maximum Wetted Perimeter	: 5.31E+01 ft
" " :	0.045	Beyond station	38.4	Max left bank area	: 0.00 ft^2
				Max right bank area	: 11.42 ft^2
Allowable Encroachment Depth :	0.00 ft			Max center channel area	: 9.7744 ft^2

Natural Cross-Section information for Channel BF5-BF7
==========
Cross-Section ID (from X1 card) : 28.0 Channel sequence number : 28

Left Overbank Length	: 595.0 ft			Maximum Elevation	: 128.17 ft.
Main Channel Length	: 595.0 ft			Maximum Depth	: 2.00 ft.
Right Overbank Length	: 595.0 ft			Maximum Section Area	: 57.0112 ft^2
				Maximum hydraulic radius	: 0.99 ft.
Manning N :	0.015	to Station	16.4	Max topwidth	: 57.14 ft.
" " :	0.035	in main Channel		Maximum Wetted Perimeter	: 5.73E+01 ft
" " :	0.045	Beyond station	90.0	Max left bank area	: 0.00 ft^2
				Max right bank area	: 0.00 ft^2
Allowable Encroachment Depth :	0.00 ft			Max center channel area	: 57.0112 ft^2

Natural Cross-Section information for Channel BF7-BF9
==========
Cross-Section ID (from X1 card) : 29.0 Channel sequence number : 29

Left Overbank Length	: 607.0 ft			Maximum Elevation	: 126.85 ft.
Main Channel Length	: 607.0 ft			Maximum Depth	: 2.50 ft.
Right Overbank Length	: 607.0 ft			Maximum Section Area	: 68.3184 ft^2
				Maximum hydraulic radius	: 1.34 ft.
Manning N :	0.015	to Station	36.6	Max topwidth	: 50.61 ft.
" " :	0.035	in main Channel		Maximum Wetted Perimeter	: 5.09E+01 ft
" " :	0.045	Beyond station	117.0	Max left bank area	: 0.00 ft^2
				Max right bank area	: 0.00 ft^2
Allowable Encroachment Depth :	0.00 ft			Max center channel area	: 68.3184 ft^2

Natural Cross-Section information for Channel BF9-BF11
==========

Cross-Section ID (from X1 card) : 30.0 Channel sequence number : 30

Left Overbank Length	: 479.0 ft	Maximum Elevation	: 126.77 ft.
Main Channel Length	: 479.0 ft	Maximum Depth	: 2.50 ft.
Right Overbank Length	: 479.0 ft	Maximum Section Area	: 70.6510 ft^2
		Maximum hydraulic radius	: 1.33 ft.
Manning N : 0.015	to Station 40.0	Max topwidth	: 52.92 ft.
" " : 0.035	in main Channel	Maximum Wetted Perimeter	: 5.32E+01 ft
" " : 0.045	Beyond station 110.1	Max left bank area	: 0.00 ft^2
		Max right bank area	: 0.00 ft^2
Allowable Encroachment Depth : 0.00 ft		Max center channel area	: 70.6510 ft^2

Natural Cross-Section information for Channel BF4-BF2

Cross-Section ID (from X1 card) : 31.0 Channel sequence number : 31

Left Overbank Length	: 768.0 ft	Maximum Elevation	: 125.69 ft.
Main Channel Length	: 768.0 ft	Maximum Depth	: 1.50 ft.
Right Overbank Length	: 768.0 ft	Maximum Section Area	: 13.1616 ft^2
		Maximum hydraulic radius	: 0.66 ft.
Manning N : 0.015	to Station 15.9	Max topwidth	: 19.77 ft.
" " : 0.035	in main Channel	Maximum Wetted Perimeter	: 2.00E+01 ft
" " : 0.045	Beyond station 74.3	Max left bank area	: 0.00 ft^2
		Max right bank area	: 0.00 ft^2
Allowable Encroachment Depth : 0.00 ft		Max center channel area	: 13.1616 ft^2

Natural Cross-Section information for Channel BF63-BF61

Cross-Section ID (from X1 card) : 32.0 Channel sequence number : 32

Left Overbank Length	: 40.0 ft	Maximum Elevation	: 125.72 ft.
Main Channel Length	: 40.0 ft	Maximum Depth	: 5.10 ft.
Right Overbank Length	: 40.0 ft	Maximum Section Area	: 44.5500 ft^2
		Maximum hydraulic radius	: 1.36 ft.
Manning N : 0.013	to Station 0.0	Max topwidth	: 30.00 ft.
" " : 0.013	in main Channel	Maximum Wetted Perimeter	: 3.27E+01 ft
" " : 0.013	Beyond station 40.0	Max left bank area	: 0.00 ft^2
		Max right bank area	: 0.00 ft^2
Allowable Encroachment Depth : 0.00 ft		Max center channel area	: 44.5500 ft^2

Natural Cross-Section information for Channel E100

Cross-Section ID (from X1 card) : 33.0 Channel sequence number : 33

Left Overbank Length	: 1206.0 ft	Maximum Elevation	: 146.49 ft.
Main Channel Length	: 1206.0 ft	Maximum Depth	: 23.55 ft.
Right Overbank Length	: 1206.0 ft	Maximum Section Area	: 73906.43 ft^2
		Maximum hydraulic radius	: 13.92 ft.
Manning N : 0.080	to Station 4974.1	Max topwidth	: 5303.50 ft.
" " : 0.035	in main Channel	Maximum Wetted Perimeter	: 5.31E+03 ft
" " : 0.120	Beyond station 5032.3	Max left bank area	: 47218.10 ft^2
		Max right bank area	: 25622.74 ft^2
Allowable Encroachment Depth : 0.00 ft		Max center channel area	: 1065.593 ft^2

Natural Cross-Section information for Channel E131

Cross-Section ID (from X1 card) : 34.0 Channel sequence number : 34

Left Overbank Length	: 475.0 ft	Maximum Elevation	: 127.50 ft.
Main Channel Length	: 475.0 ft	Maximum Depth	: 9.65 ft.
Right Overbank Length	: 475.0 ft	Maximum Section Area	: 469.8350 ft^2
		Maximum hydraulic radius	: 3.82 ft.
Manning N : 0.050	to Station 135.1	Max topwidth	: 120.47 ft.
" " : 0.040	in main Channel	Maximum Wetted Perimeter	: 1.23E+02 ft
" " : 0.050	Beyond station 201.0	Max left bank area	: 58.66 ft^2
		Max right bank area	: 24.18 ft^2
Allowable Encroachment Depth : 0.00 ft		Max center channel area	: 386.9936 ft^2

Natural Cross-Section information for Channel DW AF4

Cross-Section ID (from X1 card) : 35.0 Channel sequence number : 35

Left Overbank Length	: 33.0 ft	Maximum Elevation	: 135.33 ft.
Main Channel Length	: 33.0 ft	Maximum Depth	: 0.50 ft.
Right Overbank Length	: 33.0 ft	Maximum Section Area	: 43.9899 ft^2
		Maximum hydraulic radius	: 0.34 ft.
Manning N : 0.015	to Station 0.0	Max topwidth	: 128.98 ft.
" " : 0.015	in main Channel	Maximum Wetted Perimeter	: 1.29E+02 ft
" " : 0.015	Beyond station 164.7	Max left bank area	: 0.00 ft^2
		Max right bank area	: 0.00 ft^2
Allowable Encroachment Depth : 0.00 ft		Max center channel area	: 43.9899 ft^2

Natural Cross-Section information for Channel ditch AM16

Cross-Section ID (from X1 card) : 36.0 Channel sequence number : 36

Left Overbank Length	: 598.0 ft	Maximum Elevation	: 134.01 ft.
Main Channel Length	: 598.0 ft	Maximum Depth	: 1.00 ft.
Right Overbank Length	: 598.0 ft	Maximum Section Area	: 32.3643 ft^2
		Maximum hydraulic radius	: 0.46 ft.
Manning N : 0.015	to Station 18.2	Max topwidth	: 70.94 ft.
" " : 0.035	in main Channel	Maximum Wetted Perimeter	: 7.10E+01 ft
" " : 0.015	Beyond station 85.4	Max left bank area	: 6.16 ft^2
		Max right bank area	: 0.00 ft^2
Allowable Encroachment Depth : 0.00 ft		Max center channel area	: 26.2062 ft^2

Table E1 - Conduit Data

Inp Num	Conduit Name	Length (ft)	Conduit Class	Area (ft^2)	Manning Coef.	Max Width (ft)	Depth (ft)	Trapezoid Side Slopes
1	A2-to-A4	150.0000	Rectangle	8.0000	0.0130	4.0000	2.0000	
2	A4-to-A6	300.0000	Rectangle	8.0000	0.0130	4.0000	2.0000	
3	A6-to-A8	275.0000	Rectangle	10.0000	0.0130	5.0000	2.0000	
4	A8-to-A10	125.0000	Rectangle	10.0000	0.0130	5.0000	2.0000	
5	A10-to-A12	300.0000	Rectangle	10.0000	0.0130	5.0000	2.0000	
6	A12-to-A14	350.0000	Rectangle	10.0000	0.0130	5.0000	2.0000	
7	A14-to-A16	150.0000	Rectangle	10.0000	0.0130	5.0000	2.0000	
8	A16-AF4	612.0000	Natural	48.8926	0.0350	32.8922	3.5000	
9	AF6-AF8	362.0000	Natural	18.1012	0.0350	18.1278	2.2000	
10	AF8-AF10	40.0000	Circular	4.9087	0.0130	2.5000	2.5000	
11	AF10-AF12	220.0000	Natural	39.7481	0.0350	27.3840	3.5000	
12	AF12-AF14	52.0000	Circular	4.9087	0.0130	2.5000	2.5000	
13	AF14-AF16	348.0000	Natural	49.4369	0.0350	47.5919	3.0000	
14	AF16-AF18	68.0000	Circular	4.9087	0.0130	2.5000	2.5000	
15	AF18-AF20	216.0000	Natural	42.5996	0.0350	51.4571	2.7500	
16	AF20-AF22	64.0000	Circular	4.9087	0.0130	2.5000	2.5000	
17	AF22-AF24	597.0000	Natural	50.1738	0.0350	39.7977	3.0000	
18	AF24-AF26	41.0000	Circular	4.9087	0.0130	2.5000	2.5000	
19	AF26-AF28	736.0000	Natural	47.2969	0.0350	30.4851	3.8000	
20	AF28-AF30	68.0000	Circular	4.9087	0.0130	2.5000	2.5000	
21	AF30-AF32	525.0000	Natural	31.4874	0.0350	21.3257	3.0000	
22	AF32-AF34	71.0000	Circular	4.9087	0.0130	2.5000	2.5000	
23	AF34-AOUT	520.0000	Natural	52.4033	0.0350	30.4639	4.0000	
24	AF36-AOUT	585.0000	Natural	25.5580	0.0350	23.5207	2.5000	

25	AF38-AF36	774.0000	Natural	96.2876	0.0350	85.1450	2.5000	
26	AF40-AF38	484.0000	Natural	13.7513	0.0350	31.7974	1.5000	
27	C2-to-C4	150.0000	Circular	1.7671	0.0130	1.5000	1.5000	
28	C4-to-C6	200.0000	Circular	1.7671	0.0130	1.5000	1.5000	
29	C6-to-C8	200.0000	Circular	1.7671	0.0130	1.5000	1.5000	
30	C8-to-A-M4	80.0000	Circular	1.7671	0.0130	1.5000	1.5000	
31	AM2-AM4	352.0000	Trapezoid	3.0000	0.0150	0.0100	1.0000	3.0000 3.0000
32	AM4-AM6	997.0000	Natural	93.9194	0.0350	59.0983	3.4000	
33	AM6-AM8	221.0000	Natural	85.7922	0.0350	52.9615	4.0000	
34	AM8-AM12	1065.0000	Rectangle	18.0000	0.0130	6.0000	3.0000	
35	AM12-AM14	658.0000	Natural	107.8099	0.0350	53.4010	3.4000	
36	AM14-AM16	747.0000	Natural	82.0970	0.0350	42.0078	3.0000	
37	AM18-AM20	626.0000	Rectangle	18.0000	0.0130	6.0000	3.0000	
38	AM20-AM24	300.0000	Rectangle	18.0000	0.0130	6.0000	3.0000	
39	AM36-AM38	30.0000	Rectangle	18.0000	0.0130	6.0000	3.0000	
40	AM28-AM26	477.0000	Circular	12.5664	0.0130	4.0000	4.0000	
41	AM30-AM28	483.0000	Circular	9.6211	0.0130	3.5000	3.5000	
42	AM32-AM30	564.0000	Circular	3.1416	0.0130	2.0000	2.0000	
43	AM3-AM5	503.0000	Natural	93.9694	0.0350	56.8180	3.5000	
44	AM5-AM7	306.0000	Natural	59.7353	0.0350	35.4841	3.5000	
45	AM9-AM7	500.0000	Natural	81.8943	0.0350	51.1342	3.5000	
46	AM7-AM6	172.0000	Circular	4.9087	0.0130	2.5000	2.5000	
47	AM11-AM13	275.0000	Natural	3.5345	0.0350	14.1380	0.5000	
48	AM13-AM15	478.0000	Natural	25.4281	0.0350	33.7670	1.5000	
49	AM15-AM17	507.0000	Natural	31.3183	0.0350	42.4338	1.5000	
50	AM17-AM19	619.0000	Natural	27.8993	0.0350	36.9215	1.5000	
51	AM19-AM16	165.0000	Circular	7.0686	0.0130	3.0000	3.0000	
52	AM21-AM19	446.0000	Natural	22.6230	0.0350	30.1417	1.5000	
53	AM23-AM25	525.0000	Natural	19.7691	0.0350	40.1225	1.0000	
54	AM25-AM27	645.0000	Natural	46.7287	0.0350	46.4604	2.0000	
55	AM27-AM37	79.0000	Circular	7.0686	0.0130	3.0000	3.0000	
56	AM26-AM38	24.0000	Rectangle	25.0000	0.0130	5.0000	5.0000	
57	C1-to-C3	150.0000	Circular	1.7671	0.0130	1.5000	1.5000	
58	C3-to-C5	200.0000	Circular	1.7671	0.0130	1.5000	1.5000	
59	C5-to-C7	300.0000	Circular	1.7671	0.0130	1.5000	1.5000	
60	C7-to-A-M3	50.0000	Circular	1.7671	0.0130	1.5000	1.5000	
61	AF35-AM31	83.0000	Circular	1.7671	0.0130	1.5000	1.5000	
62	AM33-AM31	220.0000	Circular	1.7671	0.0130	1.5000	1.5000	
63	B14-to-B16	140.0000	Circular	7.0686	0.0130	3.0000	3.0000	
64	B18-to-B20	255.0000	Circular	7.0686	0.0130	3.0000	3.0000	
65	B26-to-B28	230.0000	Circular	12.5664	0.0130	4.0000	4.0000	
66	B32-to-B34	75.0000	Circular	12.5664	0.0130	4.0000	4.0000	
67	B40-to-B38	144.0000	Circular	1.7671	0.0130	1.5000	1.5000	
68	B38-to-B36	75.0000	Circular	4.9087	0.0130	2.5000	2.5000	
69	BM2-BM4	270.0000	Circular	1.7671	0.0130	1.5000	1.5000	
70	BM4-BM6	191.0000	Circular	15.9043	0.0130	4.5000	4.5000	
71	B2-BM6	60.0000	Circular	3.1416	0.0130	2.0000	2.0000	
72	BM8-B20	46.0000	Circular	1.7671	0.0130	1.5000	1.5000	
73	BM10-B26	32.0000	Circular	1.7671	0.0130	1.5000	1.5000	
74	BM12-B30	38.0000	Circular	1.7671	0.0130	1.5000	1.5000	
75	BF2-B38	10.0000	Circular	4.9087	0.0130	2.5000	2.5000	
76	BF3-BF5	655.0000	Natural	21.1981	0.0350	52.9920	1.0000	
77	BF5-BF7	595.0000	Natural	57.0112	0.0350	57.1366	2.0000	
78	BF7-BF9	607.0000	Natural	68.3184	0.0350	50.6136	2.5000	
79	BF9-BF11	479.0000	Natural	70.6510	0.0350	52.9245	2.5000	
80	BM16-BM14	86.0000	Circular	4.9087	0.0130	2.5000	2.5000	
81	BM18-BM16	422.0000	Circular	4.9087	0.0130	2.5000	2.5000	
82	BM1-BM4	210.0000	Circular	12.5664	0.0130	4.0000	4.0000	
83	BM3-BM1	90.0000	Circular	3.1416	0.0130	2.0000	2.0000	
84	BM9-BM52	78.0000	Circular	7.0686	0.0130	3.0000	3.0000	
85	BM11-BM18	204.0000	Circular	1.7671	0.0130	1.5000	1.5000	
86	AM24-AM36	365.0000	Rectangle	18.0000	0.0130	6.0000	3.0000	
87	AM38-AOUT	47.0000	Rectangle	25.0000	0.0130	5.0000	5.0000	
88	AM37-AM26	80.0000	Circular	7.0686	0.0130	3.0000	3.0000	
89	AM31-AM41	96.0000	Circular	7.0686	0.0130	3.0000	3.0000	
90	A11-AM35	15.0000	Circular	1.7671	0.0130	1.5000	1.5000	
91	AM35-AM32	187.0000	Circular	1.7671	0.0130	1.5000	1.5000	
92	AM39-AM28	86.0000	Circular	3.1416	0.0130	2.0000	2.0000	
93	AM41-AM30	88.0000	Circular	7.0686	0.0130	3.0000	3.0000	
94	BF20-BF22	66.0000	Circular	1.7671	0.0130	1.5000	1.5000	
95	BM6-BM26	199.0000	Circular	15.9043	0.0130	4.5000	4.5000	
96	BM20-BM26	119.0000	Circular	3.1416	0.0130	2.0000	2.0000	
97	BM26-BM28	412.0000	Circular	15.9043	0.0130	4.5000	4.5000	
98	BM28-BM30	510.0000	Circular	15.9043	0.0130	4.5000	4.5000	
99	BM22-BM30	83.0000	Circular	4.9087	0.0130	2.5000	2.5000	
100	BM30-BM32	508.0000	Circular	15.9043	0.0130	4.5000	4.5000	
101	BM32-BM34	596.0000	Circular	15.9043	0.0130	4.5000	4.5000	
102	BM24-BM34	92.0000	Circular	3.1416	0.0130	2.0000	2.0000	
103	BF11-BM38	120.0000	Rectangle	35.0000	0.0130	7.0000	5.0000	
104	BM38-BM36	105.0000	Rectangle	35.0000	0.0130	7.0000	5.0000	
105	BM36-BM40	18.0000	Rectangle	35.0000	0.0130	7.0000	5.0000	
106	BM40-BM42	28.0000	Rectangle	35.0000	0.0130	7.0000	5.0000	
107	BM42-BOUT	45.0000	Rectangle	35.0000	0.0130	7.0000	5.0000	
108	B34-BM42	75.0000	Circular	12.5664	0.0130	4.0000	4.0000	
109	B36-BM42	46.0000	Circular	4.9087	0.0130	2.5000	2.5000	
110	BM34-BM36	145.0000	Circular	15.9043	0.0130	4.5000	4.5000	
111	BF4-BF2	768.0000	Natural	13.1616	0.0350	19.7748	1.5000	
112	BM50-BM48	303.0000	Circular	9.6211	0.0130	3.5000	3.5000	
113	BM48-BM40	30.0000	Circular	9.6211	0.0130	3.5000	3.5000	
114	BM52-BM50	122.0000	Circular	7.0686	0.0130	3.0000	3.0000	
115	BM14-BM50	310.0000	Circular	4.9087	0.0130	2.5000	2.5000	
116	B42-BM16	59.0000	Circular	1.7671	0.0130	1.5000	1.5000	
117	BM45-BM46	78.0000	Circular	1.7671	0.0130	1.5000	1.5000	
118	BM46-BM44	227.0000	Circular	1.7671	0.0130	1.5000	1.5000	
119	BM44-BM56	96.0000	Circular	1.7671	0.0130	1.5000	1.5000	
120	BM56-BM54	97.0000	Circular	1.7671	0.0130	1.5000	1.5000	
121	BM54-BM18	204.0000	Circular	3.1416	0.0130	2.0000	2.0000	
122	BM43-BM44	78.0000	Circular	1.7671	0.0130	1.5000	1.5000	
123	B44-BM54	14.0000	Circular	1.7671	0.0130	1.5000	1.5000	
124	BF63-BF61	40.0000	Natural	44.5500	0.0130	30.0000	5.1000	
125	BF61-BF59	105.0000	Circular	3.1416	0.0130	2.0000	2.0000	
126	BF59-BF57	165.0000	Circular	3.1416	0.0130	2.0000	2.0000	
127	BF57-BF55	101.0000	Circular	3.1416	0.0130	2.0000	2.0000	
128	BF55-BF53	120.0000	Circular	3.1416	0.0130	2.0000	2.0000	
129	BF53-BF51	210.0000	Circular	4.9087	0.0130	2.5000	2.5000	
130	BF51-BF43	90.0000	Circular	4.9087	0.0130	2.5000	2.5000	
131	BF43-BF39	50.0000	Circular	4.9087	0.0130	2.5000	2.5000	
132	BF39-BF37	200.0000	Circular	4.9087	0.0130	2.5000	2.5000	
133	BF37-BF35	100.0000	Circular	7.0686	0.0130	3.0000	3.0000	
134	BF35-BF33	125.0000	Circular	7.0686	0.0130	3.0000	3.0000	
135	BF33-BF77	95.0000	Circular	7.0686	0.0130	3.0000	3.0000	
136	BF77-BF81	25.0000	Circular	3.1416	0.0130	2.0000	2.0000	
137	BF79-BF75	50.0000	Rectangle	16.0000	0.0130	4.0000	4.0000	
138	BF75-BF19	150.0000	Rectangle	16.0000	0.0130	4.0000	4.0000	
139	BF19-BF73	150.0000	Rectangle	16.0000	0.0130	4.0000	4.0000	
140	BF73-BF17	300.0000	Rectangle	16.0000	0.0130	4.0000	4.0000	
141	BF17-BF15	300.0000	Rectangle	16.0000	0.0130	4.0000	4.0000	
142	BF15-BF13	300.0000	Rectangle	16.0000	0.0130	4.0000	4.0000	
143	BF13-BF71	171.0000	Rectangle	16.0000	0.0130	4.0000	4.0000	
144	BF45-BF41	100.0000	Circular	1.7671	0.0130	1.5000	1.5000	
145	BF41-BF39	10.0000	Circular	1.7671	0.0130	1.5000	1.5000	
146	BF49-BF47	100.0000	Circular	1.7671	0.0130	1.5000	1.5000	
147	BF47-BF43	141.0000	Circular	1.7671	0.0130	1.5000	1.5000	
148	BF81-BF79	110.0000	Rectangle	16.0000	0.0130	4.0000	4.0000	
149	BF71-BF67	195.0000	Rectangle	25.0000	0.0130	5.0000	5.0000	
150	BF67-BF11	20.0000	Rectangle	35.0000	0.0130	7.0000	5.0000	
151	BF22-BF25	96.0000	Circular	1.7671	0.0130	1.5000	1.5000	
152	BF23-BF25	86.0000	Circular	1.7671	0.0130	1.5000	1.5000	

153	BF25-BF27	152.0000	Circular	7.0686	0.0130	3.0000	3.0000		
154	BF27-BF29	101.0000	Circular	12.5664	0.0130	4.0000	4.0000		
155	BF29-BF31	146.0000	Circular	12.5664	0.0130	4.0000	4.0000		
156	BF31-BM1	303.0000	Circular	12.5664	0.0130	4.0000	4.0000		
157	BF21-BF25	80.0000	Circular	4.9087	0.0130	2.5000	2.5000		
158	BF1-BF27	66.0000	Circular	4.9087	0.0130	2.5000	2.5000		
159	E100	1206.0000	Natural	73906.426	0.0350	5303.5000	23.5500		
160	E131	475.0000	Natural	469.8350	0.0400	120.4700	9.6500		
161	OF A-M16	36.0000	Trapezoid	50.0250	0.0150	100.0000	0.5000	0.1000	0.1000
162	OF A11	343.0000	Trapezoid	16.0250	0.0150	32.0000	0.5000	0.1000	0.1000
163	D2-D1	115.0000	Circular	1.7671	0.0130	1.5000	1.5000		
164	D1-D3	141.0000	Circular	3.1416	0.0130	2.0000	2.0000		
165	D3-D5	141.0000	Circular	4.9087	0.0130	2.5000	2.5000		
166	D5-D7	166.0000	Circular	7.0686	0.0130	3.0000	3.0000		
167	D7-D9	261.0000	Circular	12.5664	0.0130	4.0000	4.0000		
168	D9-D11	106.0000	Circular	19.6350	0.0130	5.0000	5.0000		
169	D11-D13	146.0000	Circular	19.6350	0.0130	5.0000	5.0000		
170	D13-D15	146.0000	Circular	19.6350	0.0130	5.0000	5.0000		
171	D15-D17	306.0000	Circular	19.6350	0.0130	5.0000	5.0000		
172	D17-D19	116.0000	Circular	19.6350	0.0130	5.0000	5.0000		
173	D19-D21	115.0000	Circular	19.6350	0.0130	5.0000	5.0000		
174	D21-D23	112.0000	Rectangle	25.0000	0.0130	5.0000	5.0000		
175	D23-D25	250.0000	Rectangle	25.0000	0.0130	5.0000	5.0000		
176	D25-D27	275.0000	Rectangle	25.0000	0.0130	5.0000	5.0000		
177	D27-D29	260.0000	Rectangle	25.0000	0.0130	5.0000	5.0000		
178	D29-D31	123.0000	Rectangle	25.0000	0.0130	5.0000	5.0000		
179	D31-D33	352.0000	Rectangle	30.0000	0.0130	6.0000	5.0000		
180	D33-D35	258.0000	Rectangle	30.0000	0.0130	6.0000	5.0000		
181	D35-D37	107.0000	Rectangle	36.0000	0.0130	6.0000	6.0000		
182	D4-D3	92.0000	Circular	1.7671	0.0130	1.5000	1.5000		
183	D6-D5	87.0000	Circular	1.7671	0.0130	1.5000	1.5000		
184	D8-D7	80.0000	Circular	3.1416	0.0130	2.0000	2.0000		
185	D10-D9	75.0000	Circular	1.7671	0.0130	1.5000	1.5000		
186	D12-D11	75.0000	Circular	4.9087	0.0130	2.5000	2.5000		
187	D14-D13	75.0000	Circular	1.7671	0.0130	1.5000	1.5000		
188	D16-D15	75.0000	Circular	1.7671	0.0130	1.5000	1.5000		
189	D18-D17	75.0000	Circular	1.7671	0.0130	1.5000	1.5000		
190	D20-D19	75.0000	Circular	1.7671	0.0130	1.5000	1.5000		
191	D22-D21	75.0000	Circular	1.7671	0.0130	1.5000	1.5000		
192	D24-D23	72.0000	Circular	4.9087	0.0130	2.5000	2.5000		
193	D26-D25	72.0000	Circular	1.7671	0.0130	1.5000	1.5000		
194	D28-D27	72.0000	Circular	1.7671	0.0130	1.5000	1.5000		
195	D30-D29	72.0000	Circular	1.7671	0.0130	1.5000	1.5000		
196	D32-D31	71.0000	Circular	4.9087	0.0130	2.5000	2.5000		
197	D34-D33	71.0000	Circular	3.1416	0.0130	2.0000	2.0000		
198	D38-D36	73.0000	Circular	1.7671	0.0130	1.5000	1.5000		
199	D36-D35	71.0000	Circular	1.7671	0.0130	1.5000	1.5000		
200	F2-F4	200.0000	Circular	7.0686	0.0130	3.0000	3.0000		
201	F4-F10	300.0000	Circular	12.5664	0.0130	4.0000	4.0000		
202	F10-F12	340.0000	Circular	12.5664	0.0130	4.0000	4.0000		
203	F12-F14	25.0000	Circular	12.5664	0.0130	4.0000	4.0000		
204	F14-F16	207.0000	Circular	19.6350	0.0130	5.0000	5.0000		
205	F16-F18	247.0000	Circular	19.6350	0.0130	5.0000	5.0000		
206	F18-F20	25.0000	Circular	23.7583	0.0130	5.5000	5.5000		
207	F20-F22	45.0000	Circular	15.9043	0.0130	4.5000	4.5000		
208	F22-F24	148.0000	Circular	23.7583	0.0130	5.5000	5.5000		
209	F24-F26	200.0000	Circular	28.2743	0.0130	6.0000	6.0000		
210	F26-F28	250.0000	Circular	28.2743	0.0130	6.0000	6.0000		
211	F6-F8	100.0000	Circular	1.7671	0.0130	1.5000	1.5000		
212	F8-F10	39.0000	Circular	1.7671	0.0130	1.5000	1.5000		
213	F1-F3	565.0000	Circular	4.9087	0.0130	2.5000	2.5000		
214	F3-F9	340.0000	Circular	12.5664	0.0130	4.0000	4.0000		
215	F9-F11	16.0000	Circular	12.5664	0.0130	4.0000	4.0000		
216	F11-F14	65.0000	Circular	12.5664	0.0130	4.0000	4.0000		
217	F5-F7	100.0000	Circular	1.7671	0.0130	1.5000	1.5000		
218	F7-F3	39.0000	Circular	1.7671	0.0130	1.5000	1.5000		
219	F13-F16	78.0000	Circular	3.1416	0.0130	2.0000	2.0000		
220	F15-F18	78.0000	Circular	3.1416	0.0130	2.0000	2.0000		
221	F17-F24	77.0000	Circular	3.1416	0.0130	2.0000	2.0000		
222	F19-F26	79.0000	Circular	3.1416	0.0130	2.0000	2.0000		
223	F21-F28	79.0000	Circular	3.1416	0.0130	2.0000	2.0000		
224	OF AM33	366.0000	Trapezoid	6.0250	0.0150	12.0000	0.5000	0.1000	0.1000
225	OF B36	50.0000	Trapezoid	35.0025	0.0350	70.0000	0.5000	0.0100	0.0100
226	OF B34	100.0000	Trapezoid	15.0025	0.0350	30.0000	0.5000	0.0100	0.0100
227	OF BF20	560.0000	Trapezoid	12.0025	0.0150	24.0000	0.5000	0.0100	0.0100
228	OF BM11	50.0000	Trapezoid	25.0025	0.0150	50.0000	0.5000	0.0100	0.0100
229	AM5-AM5B	62.0000	Circular	4.9087	0.0130	2.5000	2.5000		
230	338.1	55.0000	Circular	4.9087	0.0130	2.5000	2.5000		
231	DW AF4	33.0000	Natural	43.9899	0.0150	128.9770	0.5000		
232	ss AM16	598.0000	Rectangle	18.0000	0.0130	6.0000	3.0000		
233	ditch AM16	598.0000	Natural	32.3643	0.0350	70.9406	1.0000		
234	SS B4	135.0000	Circular	1.7671	0.0130	1.5000	1.5000		
235	RD B4	135.0000	Trapezoid	18.0025	0.0150	36.0000	0.5000	0.0100	0.0100
236	SS B6	135.0000	Circular	3.1416	0.0130	2.0000	2.0000		
237	RD B6	135.0000	Trapezoid	9.0006	0.0150	36.0000	0.2500	0.0100	0.0100
238	SS B8	135.0000	Circular	3.1416	0.0130	2.0000	2.0000		
239	RD B8	135.0000	Trapezoid	9.0006	0.0150	36.0000	0.2500	0.0100	0.0100
240	SS B10	135.0000	Circular	4.9087	0.0130	2.5000	2.5000		
241	RD B10	135.0000	Trapezoid	9.0006	0.0150	36.0000	0.2500	0.0100	0.0100
242	SS B12	80.0000	Circular	7.0686	0.0130	3.0000	3.0000		
243	RD B12	80.0000	Trapezoid	18.0025	0.0150	36.0000	0.5000	0.0100	0.0100
244	SS B16	110.0000	Circular	7.0686	0.0130	3.0000	3.0000		
245	RD B16	110.0000	Trapezoid	9.0006	0.0150	36.0000	0.2500	0.0100	0.0100
246	SS B20	135.0000	Circular	9.6211	0.0130	3.5000	3.5000		
247	RD B20	135.0000	Trapezoid	9.0006	0.0150	36.0000	0.2500	0.0100	0.0100
248	SS B22	130.0000	Circular	9.6211	0.0130	3.5000	3.5000		
249	RD B22	130.0000	Trapezoid	9.0062	0.0150	36.0000	0.2500	0.1000	0.1000
250	SS B24	95.0000	Circular	12.5664	0.0130	4.0000	4.0000		
251	RD B24	95.0000	Trapezoid	9.0006	0.0150	36.0000	0.2500	0.0100	0.0100
252	SS B28	75.0000	Circular	12.5664	0.0130	4.0000	4.0000		
253	RD B28	75.0000	Trapezoid	9.0006	0.0150	36.0000	0.2500	0.0100	0.0100
254	SS B30	135.0000	Circular	12.5664	0.0130	4.0000	4.0000		
255	RD B30	135.0000	Trapezoid	9.0006	0.0150	36.0000	0.2500	0.0100	0.0100
256	ss bf63	90.0000	Circular	4.9087	0.0130	2.5000	2.5000		
257	rd bf63	92.0000	Trapezoid	50.0025	0.0150	100.0000	0.5000	0.0100	0.0100

Total length of all conduits .... 53302.0000 feet

Table E2 - Conduit Factor Data

Conduit Name	Number of Barrels	Entrance Loss Coef	Exit Loss Coef	Exp/Contc Coefficnt	Time Weighting Parameter	Low Flow Roughness Factor	Depth at Which n Changes	Flow Routing
A14-to-A16	1.0000	0.0000	0.0000	0.0000	0.8500	1.0000	0.0000	Standard - Dynamic Wave
AF8-AF10	2.0000	0.0000	0.0000	0.0000	0.8500	1.0000	0.0000	Standard - Dynamic Wave
AF12-AF14	2.0000	0.0000	0.0000	0.0000	0.8500	1.0000	0.0000	Standard - Dynamic Wave
AF16-AF18	2.0000	0.0000	0.0000	0.0000	0.8500	1.0000	0.0000	Standard - Dynamic Wave
AF20-AF22	2.0000	0.0000	0.0000	0.0000	0.8500	1.0000	0.0000	Standard - Dynamic Wave
AF24-AF26	2.0000	0.0000	0.0000	0.0000	0.8500	1.0000	0.0000	Standard - Dynamic Wave
AF28-AF30	2.0000	0.0000	0.0000	0.0000	0.8500	1.0000	0.0000	Standard - Dynamic Wave
AF32-AF34	2.0000	0.0000	0.0000	0.0000	0.8500	1.0000	0.0000	Standard - Dynamic Wave
AM36-AM38	1.0000	0.0000	0.0000	0.0000	0.8500	1.0000	0.0000	Standard - Dynamic Wave
AM7-AM6	2.0000	0.0000	0.0000	0.0000	0.8500	1.0000	0.0000	Standard - Dynamic Wave
AM27-AM37	1.0000	0.0000	0.0000	0.0000	0.8500	1.0000	0.0000	Standard - Dynamic Wave
AM26-AM38	1.0000	0.0000	0.0000	0.0000	0.8500	1.0000	0.0000	Standard - Dynamic Wave
C3-to-C5	1.0000	0.0000	0.0000	0.0000	0.8500	1.0000	0.0000	Standard - Dynamic Wave

AF35-AM31	1.0000	0.0000	0.0000	0.0000	0.8500	1.0000	0.0000	Standard - Dynamic Wave
AM33-AM31	1.0000	0.0000	0.0000	0.0000	0.8500	1.0000	0.0000	Standard - Dynamic Wave
B38-to-B36	1.0000	0.0000	0.0000	0.0000	0.8500	1.0000	0.0000	Standard - Dynamic Wave
AM38-AOUT	1.0000	0.0000	0.5000	0.0000	0.8500	1.0000	0.0000	Standard - Dynamic Wave
AM37-AM26	1.0000	0.0000	0.0000	0.0000	0.8500	1.0000	0.0000	Standard - Dynamic Wave
AM31-AM41	1.0000	0.0000	0.0000	0.0000	0.8500	1.0000	0.0000	Standard - Dynamic Wave
AM39-AM28	1.0000	0.0000	0.0000	0.0000	0.8500	1.0000	0.0000	Standard - Dynamic Wave
AM41-AM30	1.0000	0.0000	0.0000	0.0000	0.8500	1.0000	0.0000	Standard - Dynamic Wave
BM24-BM34	1.0000	0.0000	0.0000	0.0000	0.8500	1.0000	0.0000	Standard - Dynamic Wave
BF11-BM38	2.0000	0.0000	0.0000	0.0000	0.8500	1.0000	0.0000	Standard - Dynamic Wave
BM38-BM36	2.0000	0.0000	0.0000	0.0000	0.8500	1.0000	0.0000	Standard - Dynamic Wave
BM36-BM40	2.0000	0.0000	0.0000	0.0000	0.8500	1.0000	0.0000	Standard - Dynamic Wave
BM40-BM42	2.0000	0.0000	0.0000	0.0000	0.8500	1.0000	0.0000	Standard - Dynamic Wave
BM42-BOUT	2.0000	0.0000	0.5000	0.0000	0.8500	1.0000	0.0000	Standard - Dynamic Wave
BM34-BM36	1.0000	0.0000	0.0000	0.0000	0.8500	1.0000	0.0000	Standard - Dynamic Wave
BF53-BF51	1.0000	0.0000	0.0000	0.0000	0.8500	1.0000	0.0000	Standard - Dynamic Wave
BF51-BF43	1.0000	0.0000	0.0000	0.0000	0.8500	1.0000	0.0000	Standard - Dynamic Wave
BF43-BF39	1.0000	0.0000	0.0000	0.0000	0.8500	1.0000	0.0000	Standard - Dynamic Wave
BF39-BF37	1.0000	0.0000	0.0000	0.0000	0.8500	1.0000	0.0000	Standard - Dynamic Wave
BF37-BF35	1.0000	0.0000	0.0000	0.0000	0.8500	1.0000	0.0000	Standard - Dynamic Wave
BF35-BF33	1.0000	0.0000	0.0000	0.0000	0.8500	1.0000	0.0000	Standard - Dynamic Wave
BF33-BF77	1.0000	0.0000	0.0000	0.0000	0.8500	1.0000	0.0000	Standard - Dynamic Wave
BF77-BF81	1.0000	0.0000	0.0000	0.0000	0.8500	1.0000	0.0000	Standard - Dynamic Wave
BF75-BF19	1.0000	0.0000	0.0000	0.0000	0.8500	1.0000	0.0000	Standard - Dynamic Wave
BF19-BF73	1.0000	0.0000	0.0000	0.0000	0.8500	1.0000	0.0000	Standard - Dynamic Wave
BF17-BF15	1.0000	0.0000	0.0000	0.0000	0.8500	1.0000	0.0000	Standard - Dynamic Wave
BF15-BF13	1.0000	0.0000	0.0000	0.0000	0.8500	1.0000	0.0000	Standard - Dynamic Wave
BF13-BF71	1.0000	0.0000	0.0000	0.0000	0.8500	1.0000	0.0000	Standard - Dynamic Wave
BF45-BF41	1.0000	0.0000	0.0000	0.0000	0.8500	1.0000	0.0000	Standard - Dynamic Wave
BF41-BF39	1.0000	0.0000	0.0000	0.0000	0.8500	1.0000	0.0000	Standard - Dynamic Wave
BF49-BF47	1.0000	0.0000	0.0000	0.0000	0.8500	1.0000	0.0000	Standard - Dynamic Wave
BF47-BF43	1.0000	0.0000	0.0000	0.0000	0.8500	1.0000	0.0000	Standard - Dynamic Wave
BF81-BF79	1.0000	0.0000	0.0000	0.0000	0.8500	1.0000	0.0000	Standard - Dynamic Wave
BF71-BF67	1.0000	0.0000	0.0000	0.0000	0.8500	1.0000	0.0000	Standard - Dynamic Wave
BF67-BF11	2.0000	0.0000	0.0000	0.0000	0.8500	1.0000	0.0000	Standard - Dynamic Wave
AM5-AM5B	2.0000	0.0000	0.0000	0.0000	0.8500	1.0000	0.0000	Standard - Dynamic Wave
338.1	2.0000	0.0000	0.0000	0.0000	0.8500	1.0000	0.0000	Standard - Dynamic Wave
ss AM16	1.0000	0.0000	0.0000	0.0000	0.8500	1.0000	0.0000	Standard - Dynamic Wave
SS B28	1.0000	0.0000	0.0000	0.0000	0.8500	1.0000	0.0000	Standard - Dynamic Wave
SS B30	1.0000	0.0000	0.0000	0.0000	0.8500	1.0000	0.0000	Standard - Dynamic Wave
ss bf63	3.0000	0.0000	0.0000	0.0000	0.8500	1.0000	0.0000	Standard - Dynamic Wave

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*================================================*
| If there are messages about (sqrt(g*d)*dt/dx), or |
| the sqrt(wave celerity)*time step/conduit length  |
| in the output file all it means is that the       |
| program will lower the internal time step to      |
| satisfy this condition (explicit condition).      |
| You control the actual internal time step by      |
| using the minimum courant time step factor in the |
| HYDRAULICS job control.  The message put in words |
| states that the smallest conduit with the fastest |
| velocity will control the time step selection.    |
| You have further control by using the modify      |
| conduit option in the HYDRAULICS Job Control.     |
*================================================*
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Conduit Name	Courant Ratio	
A2-to-A4	0.27	
A4-to-A6	0.13	
A6-to-A8	0.15	
A8-to-A10	0.32	
A10-to-A12	0.13	
A12-to-A14	0.11	
A14-to-A16	0.27	
A16-AF4	0.06	
AF6-AF8	0.08	
AF8-AF10	1.12	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
AF10-AF12	0.16	
AF12-AF14	0.86	
AF14-AF16	0.08	
AF16-AF18	0.66	
AF18-AF20	0.12	
AF20-AF22	0.70	
AF22-AF24	0.05	
AF24-AF26	1.09	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
AF26-AF28	0.05	
AF28-AF30	0.66	
AF30-AF32	0.07	
AF32-AF34	0.63	
AF34-AOUT	0.07	
AF36-AOUT	0.05	
AF38-AF36	0.04	
AF40-AF38	0.04	
C2-to-C4	0.23	
C4-to-C6	0.17	
C6-to-C8	0.17	
C8-to-A-M4	0.43	
AM2-AM4	0.06	
AM4-AM6	0.04	
AM6-AM8	0.16	
AM8-AM12	0.05	
AM12-AM14	0.06	
AM14-AM16	0.05	
AM18-AM20	0.08	
AM20-AM24	0.16	
AM36-AM38	1.64	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
AM28-AM26	0.12	
AM30-AM28	0.11	
AM32-AM30	0.07	
AM3-AM5	0.07	
AM5-AM7	0.12	
AM9-AM7	0.07	
AM7-AM6	0.26	
AM11-AM13	0.05	
AM13-AM15	0.05	
AM15-AM17	0.05	
AM17-AM19	0.04	
AM19-AM16	0.30	
AM21-AM19	0.06	
AM23-AM25	0.04	
AM25-AM27	0.04	
AM27-AM37	0.62	
AM26-AM38	2.11	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
C1-to-C3	0.23	
C3-to-C5	0.17	
C5-to-C7	0.12	
C7-to-A-M3	0.69	
AF35-AM31	0.42	
AM33-AM31	0.16	
B14-to-B16	0.35	
B18-to-B20	0.19	
B26-to-B28	0.25	
B32-to-B34	0.76	
B40-to-B38	0.24	

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B38-to-B36        0.60
   BM2-BM4        0.13
   BM4-BM6        0.32
    B2-BM6        0.67
   BM8-B20        0.76
  BM10-B26        1.09  ===> Warning ! (sqrt(wave celerity)*time step/conduit length)
  BM12-B30        0.91
   BF2-B38        1.50  ===> Warning ! (sqrt(wave celerity)*time step/conduit length)
   BF3-BF5        0.03
   BF5-BF7        0.05
   BF7-BF9        0.05
  BF9-BF11        0.07
 BM16-BM14        0.52
 BM18-BM16        0.11
   BM1-BM4        0.27
   BM3-BM1        0.45
  BM9-BM52        0.63
 BM11-BM18        0.17
 AM24-AM36        0.13
 AM38-AOUT        1.35  ===> Warning ! (sqrt(wave celerity)*time step/conduit length)
 AM37-AM26        0.61
 AM31-AM41        0.51
  A11-AM35        1.16  ===> Warning ! (sqrt(wave celerity)*time step/conduit length)
 AM35-AM32        0.19
 AM39-AM28        0.47
 AM41-AM30        0.56
 BF20-BF22        0.53
  BM6-BM26        0.30
 BM20-BM26        0.34
 BM26-BM28        0.15
 BM28-BM30        0.12
 BM22-BM30        0.54
 BM30-BM32        0.12
 BM32-BM34        0.10
 BM24-BM34        0.44
 BF11-BM38        0.53
 BM38-BM36        0.60
 BM36-BM40        2.11  ===> Warning ! (sqrt(wave celerity)*time step/conduit length)
 BM40-BM42        2.11  ===> Warning ! (sqrt(wave celerity)*time step/conduit length)
 BM42-BOUT        1.41  ===> Warning ! (sqrt(wave celerity)*time step/conduit length)
  B34-BM42        0.76
  B36-BM42        0.98
 BM34-BM36        0.42
   BF4-BF2        0.03
 BM50-BM48        0.18
 BM48-BM40        1.77  ===> Warning ! (sqrt(wave celerity)*time step/conduit length)
 BM52-BM50        0.40
 BM14-BM50        0.14
  B42-BM16        0.59
 BM45-BM46        0.45
 BM46-BM44        0.15
 BM44-BM56        0.36
 BM56-BM54        0.36
 BM54-BM18        0.20
 BM43-BM44        0.45
  B44-BM54        1.16  ===> Warning ! (sqrt(wave celerity)*time step/conduit length)
 BF63-BF61        0.86
 BF61-BF59        0.38
 BF59-BF57        0.24
 BF57-BF55        0.40
 BF55-BF53        0.33
 BF53-BF51        0.21
 BF51-BF43        0.50
 BF43-BF39        0.90
 BF39-BF37        0.22
 BF37-BF35        0.49
 BF35-BF33        0.39
 BF33-BF77        0.52
 BF77-BF81        1.34  ===> Warning ! (sqrt(wave celerity)*time step/conduit length)
 BF79-BF75        1.13  ===> Warning ! (sqrt(wave celerity)*time step/conduit length)
 BF75-BF19        0.38
 BF19-BF73        0.38
 BF73-BF17        0.19
 BF17-BF15        0.19
 BF15-BF13        0.19
 BF13-BF71        0.33
 BF45-BF41        0.35
 BF41-BF39        1.16  ===> Warning ! (sqrt(wave celerity)*time step/conduit length)
 BF49-BF47        0.35
 BF47-BF43        0.25
 BF81-BF79        0.52
 BF71-BF67        0.33
 BF67-BF11        2.11  ===> Warning ! (sqrt(wave celerity)*time step/conduit length)
 BF22-BF25        0.36
 BF23-BF25        0.40
 BF25-BF27        0.32
 BF27-BF29        0.56
 BF29-BF31        0.39
  BF31-BM1        0.19
 BF21-BF25        0.56
  BF1-BF27        0.68
      E100        0.07
      E131        0.12
  OF A-M16        0.56
    OF A11        0.06
     D2-D1        0.30
     D1-D3        0.28
     D3-D5        0.32
     D5-D7        0.30
     D7-D9        0.22
    D9-D11        0.60
   D11-D13        0.43
   D13-D15        0.43
   D15-D17        0.21
   D17-D19        0.55
   D19-D21        0.55
   D21-D23        0.57
   D23-D25        0.25
   D25-D27        0.23
   D27-D29        0.24
   D29-D31        0.52
   D31-D33        0.18
   D33-D35        0.25
   D35-D37        0.65
     D4-D3        0.38
     D6-D5        0.40
     D8-D7        0.50
    D10-D9        0.46
   D12-D11        0.60
   D14-D13        0.46
   D16-D15        0.46
   D18-D17        0.46
   D20-D19        0.46
   D22-D21        0.46
   D24-D23        0.62
   D26-D25        0.48
   D28-D27        0.48
   D30-D29        0.48
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        D32-D31        0.63
        D34-D33        0.57
        D38-D36        0.48
        D36-D35        0.49
          F2-F4        0.25
         F4-F10        0.19
        F10-F12        0.17
        F12-F14        1.89  ===> Warning ! (sqrt(wave celerity)*time step/conduit length)
        F14-F16        0.31
        F16-F18        0.26
        F18-F20        2.22  ===> Warning ! (sqrt(wave celerity)*time step/conduit length)
        F20-F22        1.34  ===> Warning ! (sqrt(wave celerity)*time step/conduit length)
        F22-F24        0.45
        F24-F26        0.35
        F26-F28        0.28
          F6-F8        0.35
         F8-F10        0.89
          F1-F3        0.08
          F3-F9        0.17
         F9-F11        1.89  ===> Warning ! (sqrt(wave celerity)*time step/conduit length)
        F11-F14        0.87
          F5-F7        0.35
          F7-F3        0.89
        F13-F16        0.51
        F15-F18        0.51
        F17-F24        0.52
        F19-F26        0.51
        F21-F28        0.51
        OF AM33        0.05
         OF B36        0.40
         OF B34        0.20
        OF BF20        0.04
        OF BM11        0.40
       AM5-AM5B        0.72
          338.1        0.82
         DW AF4        0.50
       ss AM16        0.08
     ditch AM16       0.03
         SS B4        0.26
         RD B4        0.15
         SS B6        0.30
         RD B6        0.11
         SS B8        0.30
         RD B8        0.11
        SS B10        0.33
        RD B10        0.11
        SS B12        0.61
        RD B12        0.25
        SS B16        0.45
        RD B16        0.13
        SS B20        0.39
        RD B20        0.11
        SS B22        0.41
        RD B22        0.11
        SS B24        0.60
        RD B24        0.15
        SS B28        0.76
        RD B28        0.19
        SS B30        0.42
        RD B30        0.11
       ss bf63        0.50
       rd bf63        0.22

*=================*
|  Conduit Volume  |
*=================*

Full pipe or full open conduit volume
Input full depth volume.............    9.0624E+07 cubic feet

===> Warning !! The upstream and downstream junctions for the following conduits
                have been reversed to correspond to the positive flow and decreasing
                slope convention.  A negative flow in the output thus means
                the flow was from your original upstream junction to your original
                downstream junction.  Any initial flow has been multiplied by -1.

                1.  Conduit #...AF14-AF16   has been changed.
                2.  Conduit #...AF16-AF18   has been changed.
                3.  Conduit #...AF24-AF26   has been changed.
                4.  Conduit #...E131        has been changed.
                5.  Conduit #...338.1       has been changed.
                6.  Conduit #...RD B12      has been changed.
                7.  Conduit #...RD B24      has been changed.
                8.  Conduit #...RD B30      has been changed.


*================================================*
|           Table E3a - Junction Data            |
*================================================*

Inp         Junction     Ground     Crown    Invert    Qinst  Initial  Interface
Num              Name  Elevation Elevation Elevation      cfs Depth-ft   Flow (%)
---  ---------------  --------- --------- --------- -------- --------  ---------
  1               A2   137.5900  135.8400  133.8400   0.0000   0.0000   100.0000
  2               A4   137.1400  135.7700  133.7700   0.0000   0.0000   100.0000
  3               A6   136.9700  135.6200  133.6200   0.0000   0.0000   100.0000
  4              A10   136.6700  135.4000  133.4000   0.0000   0.0000   100.0000
  5              A12   136.6700  135.2500  133.2500   0.0000   0.0000   100.0000
  6              A14   136.2900  135.0800  133.0800   0.0000   0.0000   100.0000
  7               C4   158.5000  154.0400  152.5400   0.0000   0.0000   100.0000
  8               C6   155.9900  150.7800  149.2800   0.0000   0.0000   100.0000
  9               C8   151.6700  147.5200  136.5000   0.0000   0.0000   100.0000
 10               C1   160.2100  156.4900  154.9900   0.0000   0.0000   100.0000
 11               C3   158.9200  154.0400  152.5400   0.0000   0.0000   100.0000
 12               C5   155.9900  150.7800  149.2800   0.0000   0.0000   100.0000
 13               C7   149.1700  145.0000  139.0000   0.0000   0.0000   100.0000
 14              B10   126.9400  126.6900  121.7100   0.0000   0.0000   100.0000
 15              B12   126.4400  126.4400  120.4400   0.0000   0.0000   100.0000
 16              B14   126.7500  126.7500  120.3200   0.0000   0.0000   100.0000
 17              B16   126.7800  126.5300  120.1100   0.0000   0.0000   100.0000
 18              B18   126.4000  126.1500  119.9400   0.0000   0.0000   100.0000
 19              B20   126.2800  126.0300  119.0600   0.0000   0.0000   100.0000
 20              B22   126.0000  125.4900  118.8600   0.0000   0.0000   100.0000
 21              B24   125.7000  124.9700  118.1600   0.0000   0.0000   100.0000
 22              B26   125.6000  125.6000  118.0600   0.0000   0.0000   100.0000
 23              B28   125.7700  125.5200  117.8300   0.0000   0.0000   100.0000
 24              B30   125.5000  125.2500  117.7600   0.0000   0.0000   100.0000
 25              B36   127.5000  127.5000  118.5300   0.0000   0.0000   100.0000
 26              B38   127.5000  122.2400  118.6100   0.0000   0.0000   100.0000
 27              B40   128.0000  122.5300  121.0300   0.0000   0.0000   100.0000
 28           B-OUT   126.9800  126.3100  116.6600   0.0000   0.0000   100.0000
 29            B-M8   127.1700  122.8500  121.3500   0.0000   0.0000   100.0000
 30           A-F10   134.3000  134.3000  130.8000   0.0000   0.0000   100.0000
 31           A-F12   134.2000  133.9000  130.4000   0.0000   0.0000   100.0000
 32             A16   137.0000  136.5000  133.0000   0.0000   0.0000   100.0000
 33            A-M8   136.5700  136.5500  132.5000   0.0000   0.0000   100.0000
 34            A-M6   137.3500  137.3500  133.1000   0.0000   0.0000   100.0000
 35            A-M4   139.1600  139.1600  135.7600   0.0000   0.0000   100.0000
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36	A-M2	137.5000	137.3500	136.3500	0.0000	0.0000	100.0000
37	A-F4	135.4100	135.4100	131.4100	0.0000	0.0000	100.0000
38	A-F6	135.2500	135.2500	131.7800	0.0000	0.0000	100.0000
39	A-F8	134.3000	133.5000	131.0000	0.0000	0.0000	100.0000
40	A-F14	134.0000	133.3800	130.3800	0.0000	0.0000	100.0000
41	A-F16	134.4000	133.4800	130.4800	0.0000	0.0000	100.0000
42	A-F18	134.0000	133.4900	130.7400	0.0000	0.0000	100.0000
43	A-F20	133.5000	133.5000	130.6700	0.0000	0.0000	100.0000
44	A-F22	134.0000	132.6400	129.6400	0.0000	0.0000	100.0000
45	A-F24	133.3000	133.3000	129.2600	0.0000	0.0000	100.0000
46	A-F26	134.5000	134.5000	129.8700	0.0000	0.0000	100.0000
47	A-F28	133.0000	132.9800	129.1800	0.0000	0.0000	100.0000
48	A-F30	132.5000	132.0500	129.0500	0.0000	0.0000	100.0000
49	A-F32	132.1000	131.0000	128.0000	0.0000	0.0000	100.0000
50	A-F34	132.0000	131.7500	127.7500	0.0000	0.0000	100.0000
51	A-OUT	146.4900	146.1700	122.6200	0.0000	0.0000	100.0000
52	A-F36	130.0200	130.0200	127.5200	0.0000	0.0000	100.0000
53	A-F38	130.3400	130.3400	127.8400	0.0000	0.0000	100.0000
54	A-F40	130.0000	130.0000	128.3300	0.0000	0.0000	100.0000
55	A-M12	135.0500	134.9800	131.5800	0.0000	0.0000	100.0000
56	A-M14	134.9000	134.9000	131.5000	0.0000	0.0000	100.0000
57	A-M16	134.5000	134.5000	128.5100	0.0000	0.0000	100.0000
58	A-M18	134.0000	133.6500	127.9400	0.0000	0.0000	100.0000
59	A-M20	132.6500	130.3300	127.3300	0.0000	0.0000	100.0000
60	A-M26	132.1000	127.7000	122.7000	0.0000	0.0000	100.0000
61	A-M28	131.9000	127.8500	123.8500	0.0000	0.0000	100.0000
62	A-M30	131.7800	128.0500	124.5500	0.0000	0.0000	100.0000
63	A-M32	131.5000	127.4000	125.4000	0.0000	0.0000	100.0000
64	A-M3	141.8500	141.8500	138.3500	0.0000	0.0000	100.0000
65	A-M5	138.3000	138.2500	134.6000	0.0000	0.0000	100.0000
66	A-M7	137.3000	136.9500	133.4500	0.0000	0.0000	100.0000
67	A-M9	140.5000	140.5000	136.0000	0.0000	0.0000	100.0000
68	A-M11	136.0000	136.0000	135.5000	0.0000	0.0000	100.0000
69	A-M13	136.1700	136.1700	134.6700	0.0000	0.0000	100.0000
70	A-M15	135.4200	135.2200	133.7200	0.0000	0.0000	100.0000
71	A-M17	134.9700	134.9700	133.0600	0.0000	0.0000	100.0000
72	A-M19	135.0000	133.3400	128.8400	0.0000	0.0000	100.0000
73	A-M21	135.5000	135.5000	134.0000	0.0000	0.0000	100.0000
74	A-M23	135.1500	135.1500	134.1500	0.0000	0.0000	100.0000
75	A-M25	135.0200	135.0200	133.0200	0.0000	0.0000	100.0000
76	A-M27	133.7300	132.2000	124.3000	0.0000	0.0000	100.0000
77	A-M24	133.2500	130.0600	127.0600	0.0000	0.0000	100.0000
78	A8	137.0500	135.4800	133.4800	0.0000	0.0000	100.0000
79	C2	160.2100	156.4900	154.9900	0.0000	0.0000	100.0000
80	A-M31	131.0000	131.0000	124.8500	0.0000	0.0000	100.0000
81	A-M33	131.0000	130.5000	125.6000	0.0000	0.0000	100.0000
82	A11	131.0000	130.1000	125.8300	0.0000	0.0000	100.0000
83	A-F35	131.0000	131.0000	125.6000	0.0000	0.0000	100.0000
84	B4	128.5200	128.5200	123.2100	0.0000	0.0000	100.0000
85	B6	127.9900	127.9900	122.2700	0.0000	0.0000	100.0000
86	B8	127.4700	127.2200	121.9800	0.0000	0.0000	100.0000
87	B32	126.5000	125.8300	117.6200	0.0000	0.0000	100.0000
88	B-F2	126.0000	125.6500	118.6600	0.0000	0.0000	100.0000
89	B42	127.0000	123.6400	122.1400	0.0000	0.0000	100.0000
90	B-M10	126.1900	122.3500	120.8500	0.0000	0.0000	100.0000
91	B-M12	126.7600	121.9000	120.4000	0.0000	0.0000	100.0000
92	B34	127.0000	126.9000	117.4000	0.0000	0.0000	100.0000
93	B-M9	128.2000	122.7100	119.7100	0.0000	0.0000	100.0000
94	B-M52	130.7600	122.5500	119.5500	0.0000	0.0000	100.0000
95	B-F5	128.6000	128.6000	126.6000	0.0000	0.0000	100.0000
96	B-F9	127.0000	126.7200	124.2200	0.0000	0.0000	100.0000
97	B-F7	128.0000	127.9800	125.4800	0.0000	0.0000	100.0000
98	A-M35	138.0300	127.2800	125.7800	0.0000	0.0000	100.0000
99	B-M18	133.8700	124.1100	121.6100	0.0000	0.0000	100.0000
100	B-M14	128.0300	123.2400	120.7400	0.0000	0.0000	100.0000
101	B-F1	129.5000	129.5000	122.8400	0.0000	0.0000	100.0000
102	B-F3	129.5000	128.8800	127.8800	0.0000	0.0000	100.0000
103	B-F11	126.0000	125.3300	117.2900	0.0000	0.0000	100.0000
104	B-M16	127.4500	123.4600	120.9600	0.0000	0.0000	100.0000
105	B2	128.1000	125.1000	123.1000	0.0000	0.0000	100.0000
106	B-M2	135.2300	125.0900	123.5900	0.0000	0.0000	100.0000
107	B-M4	132.8700	124.4800	119.9800	0.0000	0.0000	100.0000
108	B-M6	131.7100	124.6900	119.6900	0.0000	0.0000	100.0000
109	B-M1	132.0800	125.8000	120.8000	0.0000	0.0000	100.0000
110	B-M3	130.0000	126.0000	124.0000	0.0000	0.0000	100.0000
111	B-M11	127.5000	127.5000	123.2300	0.0000	0.0000	100.0000
112	A-M36	132.1500	126.0000	123.0000	0.0000	0.0000	100.0000
113	A-M38	132.1000	127.6700	122.6700	0.0000	0.0000	100.0000
114	A-M37	134.4000	127.1500	124.1500	0.0000	0.0000	100.0000
115	A-M41	137.3100	127.6900	124.6900	0.0000	0.0000	100.0000
116	A-M39	135.4500	128.1500	126.1500	0.0000	0.0000	100.0000
117	B-F73	126.5000	126.5000	118.9800	0.0000	0.0000	100.0000
118	B-F75	126.5000	126.5000	119.1300	0.0000	0.0000	100.0000
119	B-F77	127.0000	127.0000	119.2500	0.0000	0.0000	100.0000
120	B-F79	126.5000	126.5000	119.1600	0.0000	0.0000	100.0000
121	B-F81	126.5000	126.5000	119.2200	0.0000	0.0000	100.0000
122	B-F20	130.5000	130.0000	124.7200	0.0000	0.0000	100.0000
123	B-F22	130.0000	126.0800	124.5800	0.0000	0.0000	100.0000
124	B-F71	126.0000	123.3800	118.3800	0.0000	0.0000	100.0000
125	B-M26	128.0000	123.9500	119.4400	0.0000	0.0000	100.0000
126	B-M20	134.5400	124.3100	122.3100	0.0000	0.0000	100.0000
127	B-M28	129.3000	123.4600	118.9600	0.0000	0.0000	100.0000
128	B-M30	127.3400	122.8400	118.3400	0.0000	0.0000	100.0000
129	B-M22	131.2300	123.0100	120.5100	0.0000	0.0000	100.0000
130	B-M32	128.7000	122.2300	117.7300	0.0000	0.0000	100.0000
131	B-M34	127.2000	121.5200	117.0200	0.0000	0.0000	100.0000
132	B-M24	129.6300	121.7200	119.7200	0.0000	0.0000	100.0000
133	B-M38	130.0700	122.0500	117.0500	0.0000	0.0000	100.0000
134	B-M36	127.9000	121.8500	116.8500	0.0000	0.0000	100.0000
135	B-M40	126.9000	121.7900	116.7900	0.0000	0.0000	100.0000
136	B-M42	127.1800	121.7500	116.7500	0.0000	0.0000	100.0000
137	B-F65	128.9100	128.9100	123.0000	0.0000	0.0000	100.0000
138	B-F4	126.0000	126.0000	124.5000	0.0000	0.0000	100.0000
139	B-M50	128.5000	122.3000	118.8000	0.0000	0.0000	100.0000
140	B-M48	127.8600	121.3800	117.8800	0.0000	0.0000	100.0000
141	B-M45	128.0000	124.1800	122.6800	0.0000	0.0000	100.0000
142	B-M46	127.5000	124.0600	122.5600	0.0000	0.0000	100.0000
143	B-M44	127.5000	123.7200	122.2200	0.0000	0.0000	100.0000
144	B-M56	140.8000	123.5700	122.0700	0.0000	0.0000	100.0000
145	B-M54	140.8000	123.9200	121.9200	0.0000	0.0000	100.0000
146	B-M43	127.5000	123.8800	122.3800	0.0000	0.0000	100.0000
147	B44	125.8400	123.4600	121.9600	0.0000	0.0000	100.0000
148	B-F63	128.9100	128.9100	123.3000	0.0000	0.0000	100.0000
149	B-F61	128.5000	122.6200	120.6200	0.0000	0.0000	100.0000
150	B-F59	128.0000	128.0000	120.5100	0.0000	0.0000	100.0000
151	B-F57	127.9000	122.3400	120.3400	0.0000	0.0000	100.0000
152	B-F55	125.5000	122.2400	120.2400	0.0000	0.0000	100.0000
153	B-F53	125.8000	122.6200	120.1200	0.0000	0.0000	100.0000
154	B-F51	126.0000	122.4100	119.9100	0.0000	0.0000	100.0000
155	B-F43	125.5000	122.3200	119.8200	0.0000	0.0000	100.0000
156	B-F39	125.1400	122.2700	119.7700	0.0000	0.0000	100.0000
157	B-F37	125.7100	122.5700	119.5700	0.0000	0.0000	100.0000
158	B-F35	125.0900	122.4700	119.4700	0.0000	0.0000	100.0000
159	B-F33	125.5400	125.5400	119.3400	0.0000	0.0000	100.0000
160	B-F19	126.5000	126.5000	119.0600	0.0000	0.0000	100.0000
161	B-F17	126.5000	126.5000	118.8300	0.0000	0.0000	100.0000
162	B-F15	126.9000	122.6800	118.6800	0.0000	0.0000	100.0000
163	B-F13	126.0000	126.0000	118.5300	0.0000	0.0000	100.0000

164	B-F45	136.3200	130.5400	129.0400	0.0000	0.0000	100.0000
165	B-F41	131.4500	130.1900	122.4400	0.0000	0.0000	100.0000
166	B-F49	138.9100	131.3400	129.8400	0.0000	0.0000	100.0000
167	B-F47	133.7700	131.2400	122.0400	0.0000	0.0000	100.0000
168	B-F67	125.1000	122.3500	117.3500	0.0000	0.0000	100.0000
169	B-F21	130.0000	130.0000	123.0000	0.0000	0.0000	100.0000
170	B-F23	130.0000	128.8000	124.6500	0.0000	0.0000	100.0000
171	B-F25	130.5000	125.8800	122.8800	0.0000	0.0000	100.0000
172	B-F27	130.2900	125.6400	121.6400	0.0000	0.0000	100.0000
173	B-F29	145.5000	125.4600	121.4600	0.0000	0.0000	100.0000
174	B-F31	143.4000	125.2500	121.2500	0.0000	0.0000	100.0000
175	E100-OUT	146.4900	145.6200	122.0700	0.0000	0.0000	100.0000
176	E131-OUT	127.5000	127.5000	117.8500	0.0000	0.0000	100.0000
177	Node457	128.0000	126.5000	126.5000	0.0000	0.0000	100.0000
178	Node458	128.9100	128.3600	123.2600	0.0000	0.0000	100.0000
179	D2	126.0000	124.0000	122.5000	0.0000	0.0000	100.0000
180	D1	125.5000	123.5100	119.8800	0.0000	0.0000	100.0000
181	D3	124.8400	121.7600	119.2600	0.0000	0.0000	100.0000
182	D5	124.2600	121.6000	117.9800	0.0000	0.0000	100.0000
183	D7	123.7100	120.8300	116.8300	0.0000	0.0000	100.0000
184	D9	123.5200	120.9200	115.9200	0.0000	0.0000	100.0000
185	D11	123.4500	120.8900	115.8900	0.0000	0.0000	100.0000
186	D13	123.7300	120.8300	115.8300	0.0000	0.0000	100.0000
187	D15	124.6300	121.4700	115.7600	0.0000	0.0000	100.0000
188	D17	124.6300	121.4700	115.1000	0.0000	0.0000	100.0000
189	D19	123.4900	120.3300	115.0300	0.0000	0.0000	100.0000
190	D21	123.4000	119.9500	114.9500	0.0000	0.0000	100.0000
191	D23	122.9900	119.8900	114.8900	0.0000	0.0000	100.0000
192	D25	122.8300	119.7400	114.7400	0.0000	0.0000	100.0000
193	D27	122.7800	119.5600	114.5600	0.0000	0.0000	100.0000
194	D29	122.6500	119.3700	114.3700	0.0000	0.0000	100.0000
195	D31	122.4300	119.2700	114.2700	0.0000	0.0000	100.0000
196	D33	122.7100	119.0700	114.0700	0.0000	0.0000	100.0000
197	D35	123.5700	118.9000	112.9000	0.0000	0.0000	100.0000
198	D4	125.1700	121.8700	120.3700	0.0000	0.0000	100.0000
199	D6	124.5900	121.2900	119.7900	0.0000	0.0000	100.0000
200	D8	123.7100	120.4600	118.4600	0.0000	0.0000	100.0000
201	D10	123.8500	120.5500	119.0500	0.0000	0.0000	100.0000
202	D12	123.4500	120.1500	117.6500	0.0000	0.0000	100.0000
203	D14	124.0600	120.7600	119.2600	0.0000	0.0000	100.0000
204	D16	124.9600	121.6600	120.1600	0.0000	0.0000	100.0000
205	D18	124.9600	121.6600	120.1600	0.0000	0.0000	100.0000
206	D20	123.8200	120.5200	119.0200	0.0000	0.0000	100.0000
207	D22	123.4000	120.1000	118.6000	0.0000	0.0000	100.0000
208	D24	122.9900	119.6900	117.1900	0.0000	0.0000	100.0000
209	D26	123.1600	119.8600	118.3600	0.0000	0.0000	100.0000
210	D28	123.1100	119.8100	118.3100	0.0000	0.0000	100.0000
211	D30	122.9800	119.6800	118.1800	0.0000	0.0000	100.0000
212	D32	122.4300	119.1300	116.6300	0.0000	0.0000	100.0000
213	D34	123.0400	119.7900	117.7900	0.0000	0.0000	100.0000
214	D38	123.5000	122.0000	120.5000	0.0000	0.0000	100.0000
215	D36	123.5700	121.0000	118.7700	0.0000	0.0000	100.0000
216	D37	124.2100	118.8500	112.8500	0.0000	0.0000	100.0000
217	F2	126.3000	122.5200	119.5200	0.0000	0.0000	100.0000
218	F4	125.6000	122.5200	118.5200	0.0000	0.0000	100.0000
219	F10	126.8500	123.4100	118.2200	0.0000	0.0000	100.0000
220	F12	126.7700	121.8800	117.8800	0.0000	0.0000	100.0000
221	F14	127.1000	122.0000	115.5800	0.0000	0.0000	100.0000
222	F16	126.2800	120.5200	115.5200	0.0000	0.0000	100.0000
223	F18	125.5900	120.4200	114.9200	0.0000	0.0000	100.0000
224	F20	121.7300	120.4100	111.7300	0.0000	0.0000	100.0000
225	F22	121.7300	120.3900	111.7300	0.0000	0.0000	100.0000
226	F24	126.2600	120.3300	114.3300	0.0000	0.0000	100.0000
227	F26	126.9700	123.4800	114.2700	0.0000	0.0000	100.0000
228	F6	131.6200	125.5700	124.0700	0.0000	0.0000	100.0000
229	F8	129.2100	125.4700	122.0500	0.0000	0.0000	100.0000
230	F1	127.4000	124.5700	122.0700	0.0000	0.0000	100.0000
231	F3	127.0000	124.0000	120.0000	0.0000	0.0000	100.0000
232	F9	126.6400	123.6600	119.6600	0.0000	0.0000	100.0000
233	F11	124.0000	123.3300	119.3300	0.0000	0.0000	100.0000
234	F5	131.6200	125.8100	124.3100	0.0000	0.0000	100.0000
235	F7	129.2100	125.7100	122.2900	0.0000	0.0000	100.0000
236	F13	126.5100	123.0100	121.0100	0.0000	0.0000	100.0000
237	F15	125.8200	122.3200	120.3200	0.0000	0.0000	100.0000
238	F17	126.4900	122.9900	120.9900	0.0000	0.0000	100.0000
239	F19	127.1900	123.6900	121.6900	0.0000	0.0000	100.0000
240	F21	127.0700	123.5700	121.5700	0.0000	0.0000	100.0000
241	F28	127.0700	123.3600	114.1900	0.0000	0.0000	100.0000
242	A-M5B	139.5000	137.1000	134.6000	0.0000	0.0000	100.0000

Table E3b - Junction Data

Inp Num	Junction Name	X Coord.	Y Coord.	Type of Manhole	Type of Inlet	Maximum Capacity	Pavement Shape	Pavement Slope
1	A2	3.029983E+06	13.90518E+06	No P	Normal		0	0.0000
2	A4	3.030102E+06	13.90509E+06	No P	Normal		0	0.0000
3	A6	3.030345E+06	13.90491E+06	No P	Normal		0	0.0000
4	A10	3.030653E+06	13.90467E+06	No P	Normal		0	0.0000
5	A12	3.030878E+06	13.90447E+06	No P	Normal		0	0.0000
6	A14	3.031143E+06	13.90424E+06	No P	Normal		0	0.0000
7	C4	3.030102E+06	13.90493E+06	No P	Normal		0	0.0000
8	C6	3.030258E+06	13.90481E+06	No P	Normal		0	0.0000
9	C8	3.030415E+06	13.90468E+06	No P	Normal		0	0.0000
10	C1	3.029940E+06	13.90495E+06	No P	Normal		0	0.0000
11	C3	3.030064E+06	13.90485E+06	No P	Normal		0	0.0000
12	C5	3.030218E+06	13.90474E+06	No P	Normal		0	0.0000
13	C7	3.030469E+06	13.90454E+06	No P	Normal		0	0.0000
14	B10	3.038339E+06	13.90045E+06	No P	Normal		0	0.0000
15	B12	3.038476E+06	13.90041E+06	No P	Normal		0	0.0000
16	B14	3.038539E+06	13.90038E+06	No P	Normal		0	0.0000
17	B16	3.038664E+06	13.90032E+06	No P	Normal		0	0.0000
18	B18	3.038771E+06	13.90026E+06	No P	Normal		0	0.0000
19	B20	3.038975E+06	13.90013E+06	No P	Normal		0	0.0000
20	B22	3.039088E+06	13.90006E+06	No P	Normal		0	0.0000
21	B24	3.039186E+06	13.89999E+06	No P	Normal		0	0.0000
22	B26	3.039273E+06	13.89993E+06	F	Normal		0	0.0000
23	B28	3.039447E+06	13.89979E+06	No P	Normal		0	0.0000
24	B30	3.039515E+06	13.89974E+06	No P	Normal		0	0.0000
25	B36	3.039797E+06	13.89953E+06	No P	Normal		0	0.0000
26	B38	3.039853E+06	13.89948E+06	No P	Normal		0	0.0000
27	B40	3.039990E+06	13.89938E+06	No P	Normal		0	0.0000
28	B-OUT	3.039816E+06	13.89958E+06	No P	Normal		0	0.0000
29	B-M8	3.038951E+06	13.90009E+06	No P	Normal		0	0.0000
30	A-F10	3.032128E+06	13.90350E+06	No P	Normal		0	0.0000
31	A-F12	3.032279E+06	13.90338E+06	No P	Normal		0	0.0000
32	A16	3.031271E+06	13.90413E+06	No P	Normal		0	0.0000
33	A-M8	3.031429E+06	13.90394E+06	No P	Normal		0	0.0000
34	A-M6	3.031240E+06	13.90408E+06	No P	Normal		0	0.0000
35	A-M4	3.030487E+06	13.90473E+06	No P	Normal		0	0.0000
36	A-M2	3.030175E+06	13.90496E+06	No P	Normal		0	0.0000
37	A-F4	3.031742E+06	13.90380E+06	No P	Normal		0	0.0000
38	A-F6	3.031799E+06	13.90374E+06	No P	Normal		0	0.0000
39	A-F8	3.032078E+06	13.90354E+06	No P	Normal		0	0.0000
40	A-F14	3.032337E+06	13.90333E+06	No P	Normal		0	0.0000

41	A-F16	3.032601E+06	13.90314E+06		No	P	Normal	0 0.0000
42	A-F18	3.032668E+06	13.90308E+06		No	P	Normal	0 0.0000
43	A-F20	3.032823E+06	13.90296E+06			F	Normal	0 0.0000
44	A-F22	3.032886E+06	13.90291E+06		No	P	Normal	0 0.0000
45	A-F24	3.033340E+06	13.90257E+06			F	Normal	0 0.0000
46	A-F26	3.033400E+06	13.90252E+06		No	P	Normal	0 0.0000
47	A-F28	3.033969E+06	13.90210E+06		No	P	Normal	0 0.0000
48	A-F30	3.034035E+06	13.90204E+06		No	P	Normal	0 0.0000
49	A-F32	3.034440E+06	13.90174E+06		No	P	Normal	0 0.0000
50	A-F34	3.034512E+06	13.90167E+06		No	P	Normal	0 0.0000
51	A-OUT	3.034926E+06	13.90138E+06		No	P	Normal	0 0.0000
52	A-F36	3.035379E+06	13.90105E+06			F	Normal	0 0.0000
53	A-F38	3.036136E+06	13.90081E+06		No	P	Normal	0 0.0000
54	A-F40	3.036587E+06	13.90080E+06			F	Normal	0 0.0000
55	A-M12	3.032246E+06	13.90332E+06		No	P	Normal	0 0.0000
56	A-M14	3.032759E+06	13.90293E+06		No	P	Normal	0 0.0000
57	A-M16	3.033345E+06	13.90250E+06		No	P	Normal	0 0.0000
58	A-M18	3.033815E+06	13.90213E+06		No	P	Normal	0 0.0000
59	A-M20	3.034317E+06	13.90175E+06		No	P	Normal	0 0.0000
60	A-M26	3.034869E+06	13.90132E+06		No	P	Normal	0 0.0000
61	A-M28	3.035313E+06	13.90103E+06		No	P	Normal	0 0.0000
62	A-M30	3.035709E+06	13.90082E+06		No	P	Normal	0 0.0000
63	A-M32	3.036294E+06	13.90071E+06		No	P	Normal	0 0.0000
64	A-M3	3.030392E+06	13.90451E+06		No	P	Normal	0 0.0000
65	A-M5	3.030828E+06	13.90420E+06		No	P	Normal	0 0.0000
66	A-M7	3.031027E+06	13.90407E+06		No	P	Normal	0 0.0000
67	A-M9	3.031353E+06	13.90381E+06		No	P	Normal	0 0.0000
68	A-M11	3.031795E+06	13.90350E+06		No	P	Normal	0 0.0000
69	A-M13	3.032030E+06	13.90330E+06		No	P	Normal	0 0.0000
70	A-M15	3.032362E+06	13.90308E+06		No	P	Normal	0 0.0000
71	A-M17	3.032769E+06	13.90278E+06			F	Normal	0 0.0000
72	A-M19	3.033274E+06	13.90240E+06		No	P	Normal	0 0.0000
73	A-M21	3.033636E+06	13.90209E+06		No	P	Normal	0 0.0000
74	A-M23	3.033890E+06	13.90193E+06		No	P	Normal	0 0.0000
75	A-M25	3.034298E+06	13.90161E+06		No	P	Normal	0 0.0000
76	A-M27	3.034791E+06	13.90124E+06		No	P	Normal	0 0.0000
77	A-M24	3.034623E+06	13.90149E+06		No	P	Normal	0 0.0000
78	A8	3.030556E+06	13.90475E+06		No	P	Normal	0 0.0000
79	C2	3.029996E+06	13.90501E+06		No	P	Normal	0 0.0000
80	A-M31	3.035688E+06	13.90067E+06			F	Normal	0 0.0000
81	A-M33	3.035849E+06	13.90060E+06		No	P	Normal	0 0.0000
82	A11	3.036222E+06	13.90050E+06		No	P	Normal	0 0.0000
83	A-F35	3.035677E+06	13.90060E+06			F	Normal	0 0.0000
84	B4	3.037946E+06	13.90057E+06		No	P	Normal	0 0.0000
85	B6	3.038095E+06	13.90054E+06		No	P	Normal	0 0.0000
86	B8	3.038223E+06	13.90050E+06		No	P	Normal	0 0.0000
87	B32	3.039614E+06	13.89966E+06		No	P	Normal	0 0.0000
88	B-F2	3.039879E+06	13.89952E+06		No	P	Normal	0 0.0000
89	B42	3.040400E+06	13.89905E+06		No	P	Normal	0 0.0000
90	B-M10	3.039240E+06	13.89989E+06		No	P	Normal	0 0.0000
91	B-M12	3.039500E+06	13.89970E+06		No	P	Normal	0 0.0000
92	B34	3.039674E+06	13.89962E+06		No	P	Normal	0 0.0000
93	B-M9	3.039966E+06	13.89914E+06		No	P	Normal	0 0.0000
94	B-M52	3.040017E+06	13.89920E+06		No	P	Normal	0 0.0000
95	B-F5	3.038071E+06	13.90031E+06		No	P	Normal	0 0.0000
96	B-F9	3.039121E+06	13.89971E+06		No	P	Normal	0 0.0000
97	B-F7	3.038629E+06	13.90007E+06		No	P	Normal	0 0.0000
98	A-M35	3.036235E+06	13.90053E+06		No	P	Normal	0 0.0000
99	B-M18	3.040633E+06	13.89867E+06		No	P	Normal	0 0.0000
100	B-M14	3.040302E+06	13.89907E+06		No	P	Normal	0 0.0000
101	B-F1	3.036835E+06	13.90035E+06			F	Normal	0 0.0000
102	B-F3	3.037432E+06	13.90034E+06		No	P	Normal	0 0.0000
103	B-F11	3.039542E+06	13.89943E+06		No	P	Normal	0 0.0000
104	B-M16	3.040365E+06	13.89900E+06		No	P	Normal	0 0.0000
105	B2	3.037695E+06	13.90063E+06		No	P	Normal	0 0.0000
106	B-M2	3.037244E+06	13.90060E+06		No	P	Normal	0 0.0000
107	B-M4	3.037510E+06	13.90058E+06		No	P	Normal	0 0.0000
108	B-M6	3.037702E+06	13.90057E+06		No	P	Normal	0 0.0000
109	B-M1	3.037348E+06	13.90042E+06		No	P	Normal	0 0.0000
110	B-M3	3.037500E+06	13.90043E+06		No	P	Normal	0 0.0000
111	B-M11	3.040454E+06	13.89856E+06		No	P	Normal	0 0.0000
112	A-M36	3.034852E+06	13.90133E+06		No	P	Normal	0 0.0000
113	A-M38	3.034889E+06	13.90134E+06		No	P	Normal	0 0.0000
114	A-M37	3.034831E+06	13.90128E+06		No	P	Normal	0 0.0000
115	A-M41	3.035698E+06	13.90073E+06		No	P	Normal	0 0.0000
116	A-M39	3.035274E+06	13.90096E+06		No	P	Normal	0 0.0000
117	B-F73	3.040422E+06	13.89852E+06			F	Normal	0 0.0000
118	B-F75	3.040571E+06	13.89826E+06			F	Normal	0 0.0000
119	B-F77	3.040539E+06	13.89812E+06			F	Normal	0 0.0000
120	B-F79	3.040590E+06	13.89822E+06			F	Normal	0 0.0000
121	B-F81	3.040576E+06	13.89814E+06			F	Normal	0 0.0000
122	B-F20	3.036640E+06	13.90060E+06		No	P	Normal	0 0.0000
123	B-F22	3.036640E+06	13.90054E+06		No	P	Normal	0 0.0000
124	B-F71	3.039696E+06	13.89930E+06		No	P	Normal	0 0.0000
125	B-M26	3.037914E+06	13.90057E+06				Normal	0 0.0000
126	B-M20	3.037895E+06	13.90046E+06		No	P	Normal	0 0.0000
127	B-M28	3.038294E+06	13.90042E+06		No	P	Normal	0 0.0000
128	B-M30	3.038771E+06	13.90022E+06				Normal	0 0.0000
129	B-M22	3.038735E+06	13.90015E+06		No	P	Normal	0 0.0000
130	B-M32	3.039197E+06	13.89994E+06		No	P	Normal	0 0.0000
131	B-M34	3.039682E+06	13.89958E+06				Normal	0 0.0000
132	B-M24	3.039613E+06	13.89952E+06		No	P	Normal	0 0.0000
133	B-M38	3.039645E+06	13.89949E+06		No	P	Normal	0 0.0000
134	B-M36	3.039729E+06	13.89954E+06				Normal	0 0.0000
135	B-M40	3.039763E+06	13.89956E+06				Normal	0 0.0000
136	B-M42	3.039782E+06	13.89957E+06				Normal	0 0.0000
137	B-F65	3.039232E+06	13.89772E+06		No	P	Normal	0 0.0000
138	B-F4	3.040479E+06	13.89900E+06		No	P	Normal	0 0.0000
139	B-M50	3.040096E+06	13.89930E+06		No	P	Normal	0 0.0000
140	B-M48	3.039787E+06	13.89950E+06				Normal	0 0.0000
141	B-M45	3.040821E+06	13.89806E+06		No	P	Normal	0 0.0000
142	B-M46	3.040899E+06	13.89810E+06		No	P	Normal	0 0.0000
143	B-M44	3.040782E+06	13.89830E+06		No	P	Normal	0 0.0000
144	B-M56	3.040784E+06	13.89840E+06		No	P	Normal	0 0.0000
145	B-M54	3.040731E+06	13.89848E+06		No	P	Normal	0 0.0000
146	B-M43	3.040707E+06	13.89826E+06		No	P	Normal	0 0.0000
147	B44	3.040751E+06	13.89849E+06		No	P	Normal	0 0.0000
148	B-F63	3.039261E+06	13.89781E+06		No	P	Normal	0 0.0000
149	B-F61	3.039298E+06	13.89778E+06		No	P	Normal	0 0.0000
150	B-F59	3.039427E+06	13.89769E+06	2D Spill			Normal	0 0.0000
151	B-F57	3.039572E+06	13.89759E+06		No	P	Normal	0 0.0000
152	B-F55	3.039654E+06	13.89763E+06		No	P	Normal	0 0.0000
153	B-F53	3.039758E+06	13.89769E+06		No	P	Normal	0 0.0000
154	B-F51	3.039939E+06	13.89780E+06		No	P	Normal	0 0.0000
155	B-F43	3.040023E+06	13.89785E+06		No	P	Normal	0 0.0000
156	B-F39	3.040064E+06	13.89787E+06		No	P	Normal	0 0.0000
157	B-F37	3.040239E+06	13.89796E+06		No	P	Normal	0 0.0000
158	B-F35	3.040331E+06	13.89800E+06		No	P	Normal	0 0.0000
159	B-F33	3.040460E+06	13.89807E+06	2D Spill			Normal	0 0.0000
160	B-F19	3.040501E+06	13.89838E+06			F	Normal	0 0.0000
161	B-F17	3.040243E+06	13.89876E+06			F	Normal	0 0.0000
162	B-F15	3.040043E+06	13.89898E+06		No	P	Normal	0 0.0000
163	B-F13	3.039823E+06	13.89919E+06			F	Normal	0 0.0000
164	B-F45	3.039992E+06	13.89778E+06		No	P	Normal	0 0.0000
165	B-F41	3.040085E+06	13.89783E+06		No	P	Normal	0 0.0000
166	B-F49	3.040002E+06	13.89766E+06		No	P	Normal	0 0.0000
167	B-F47	3.040100E+06	13.89772E+06		No	P	Normal	0 0.0000
168	B-F67	3.039521E+06	13.89942E+06				Normal	0 0.0000

169	B-F21	3.036660E+06	13.90036E+06		F	Normal	0	0.0000
170	B-F23	3.036586E+06	13.90044E+06	No	P	Normal	0	0.0000
171	B-F25	3.036682E+06	13.90044E+06	No	P	Normal	0	0.0000
172	B-F27	3.036837E+06	13.90041E+06	No	P	Normal	0	0.0000
173	B-F29	3.036942E+06	13.90045E+06	No	P	Normal	0	0.0000
174	B-F31	3.037091E+06	13.90044E+06	No	P	Normal	0	0.0000
175	E100-OUT	3.035064E+06	13.90149E+06	No	P	Normal	0	0.0000
176	E131-OUT	3.039870E+06	13.89961E+06	No	P	Normal	0	0.0000
177	Node457	3.039943E+06	13.89730E+06	No	P	Normal	0	0.0000
178	Node458	3.039290E+06	13.89780E+06	No	P	Normal	0	0.0000
179	D2	3.041130E+06	13.89845E+06	No	P	Normal	0	0.0000
180	D1	3.041188E+06	13.89835E+06	No	P	Normal	0	0.0000
181	D3	3.041305E+06	13.89842E+06	No	P	Normal	0	0.0000
182	D5	3.041430E+06	13.89850E+06	No	P	Normal	0	0.0000
183	D7	3.041580E+06	13.89858E+06	No	P	Normal	0	0.0000
184	D9	3.041807E+06	13.89871E+06	No	P	Normal	0	0.0000
185	D11	3.041904E+06	13.89877E+06	No	P	Normal	0	0.0000
186	D13	3.042032E+06	13.89884E+06	No	P	Normal	0	0.0000
187	D15	3.042163E+06	13.89892E+06	No	P	Normal	0	0.0000
188	D17	3.042432E+06	13.89907E+06	No	P	Normal	0	0.0000
189	D19	3.042541E+06	13.89913E+06	No	P	Normal	0	0.0000
190	D21	3.042642E+06	13.89919E+06	No	P	Normal	0	0.0000
191	D23	3.042743E+06	13.89924E+06	No	P	Normal	0	0.0000
192	D25	3.042961E+06	13.89936E+06	No	P	Normal	0	0.0000
193	D27	3.043199E+06	13.89950E+06	No	P	Normal	0	0.0000
194	D29	3.043423E+06	13.89963E+06	No	P	Normal	0	0.0000
195	D31	3.043536E+06	13.89970E+06	No	P	Normal	0	0.0000
196	D33	3.043835E+06	13.89987E+06	No	P	Normal	0	0.0000
197	D35	3.044065E+06	13.90000E+06	No	P	Normal	0	0.0000
198	D4	3.041256E+06	13.89850E+06	No	P	Normal	0	0.0000
199	D6	3.041386E+06	13.89857E+06	No	P	Normal	0	0.0000
200	D8	3.041539E+06	13.89865E+06	No	P	Normal	0	0.0000
201	D10	3.041769E+06	13.89878E+06	No	P	Normal	0	0.0000
202	D12	3.041867E+06	13.89884E+06	No	P	Normal	0	0.0000
203	D14	3.041995E+06	13.89891E+06	No	P	Normal	0	0.0000
204	D16	3.042125E+06	13.89898E+06	No	P	Normal	0	0.0000
205	D18	3.042394E+06	13.89914E+06	No	P	Normal	0	0.0000
206	D20	3.042503E+06	13.89920E+06	No	P	Normal	0	0.0000
207	D22	3.042604E+06	13.89926E+06	No	P	Normal	0	0.0000
208	D24	3.042704E+06	13.89931E+06	No	P	Normal	0	0.0000
209	D26	3.042919E+06	13.89944E+06	No	P	Normal	0	0.0000
210	D28	3.043158E+06	13.89957E+06	No	P	Normal	0	0.0000
211	D30	3.043384E+06	13.89970E+06	No	P	Normal	0	0.0000
212	D32	3.043497E+06	13.89977E+06	No	P	Normal	0	0.0000
213	D34	3.043799E+06	13.89994E+06	No	P	Normal	0	0.0000
214	D38	3.044093E+06	13.90010E+06	No	P	Normal	0	0.0000
215	D36	3.044028E+06	13.90007E+06	No	P	Normal	0	0.0000
216	D37	3.044160E+06	13.90005E+06	No	P	Normal	0	0.0000
217	F2	3.039322E+06	13.89723E+06	No	P	Normal	0	0.0000
218	F4	3.039146E+06	13.89714E+06	No	P	Normal	0	0.0000
219	F10	3.038886E+06	13.89699E+06	No	P	Normal	0	0.0000
220	F12	3.038583E+06	13.89683E+06	No	P	Normal	0	0.0000
221	F14	3.038571E+06	13.89686E+06	No	P	Normal	0	0.0000
222	F16	3.038392E+06	13.89676E+06	No	P	Normal	0	0.0000
223	F18	3.038176E+06	13.89664E+06	No	P	Normal	0	0.0000
224	F20	3.038147E+06	13.89662E+06	No	P	Normal	0	0.0000
225	F22	3.038118E+06	13.89660E+06	No	P	Normal	0	0.0000
226	F24	3.037985E+06	13.89651E+06	No	P	Normal	0	0.0000
227	F26	3.037819E+06	13.89640E+06	No	P	Normal	0	0.0000
228	F6	3.038956E+06	13.89707E+06	No	P	Normal	0	0.0000
229	F8	3.038869E+06	13.89702E+06	No	P	Normal	0	0.0000
230	F1	3.039234E+06	13.89739E+06	No	P	Normal	0	0.0000
231	F3	3.038803E+06	13.89714E+06	No	P	Normal	0	0.0000
232	F9	3.038513E+06	13.89696E+06	No	P	Normal	0	0.0000
233	F11	3.038524E+06	13.89694E+06	No	P	Normal	0	0.0000
234	F5	3.038904E+06	13.89716E+06	No	P	Normal	0	0.0000
235	F7	3.038821E+06	13.89711E+06	No	P	Normal	0	0.0000
236	F13	3.038345E+06	13.89684E+06	No	P	Normal	0	0.0000
237	F15	3.038132E+06	13.89671E+06	No	P	Normal	0	0.0000
238	F17	3.037932E+06	13.89659E+06	No	P	Normal	0	0.0000
239	F19	3.037766E+06	13.89648E+06	No	P	Normal	0	0.0000
240	F21	3.037556E+06	13.89632E+06	No	P	Normal	0	0.0000
241	F28	3.037609E+06	13.89624E+06	No	P	Normal	0	0.0000
242	A-M5B	3.030786E+06	13.90414E+06	No	P	Normal	0	0.0000

Table E4 - Conduit Connectivity

Input Number	Conduit Name	Upstream Node	Downstream Node	Upstream Elevation	Downstream Elevation	
1	A2-to-A4	A2	A4	133.8400	133.7700	No Design
2	A4-to-A6	A4	A6	133.7700	133.6200	No Design
3	A6-to-A8	A6	A8	133.6200	133.4800	No Design
4	A8-to-A10	A8	A10	133.4800	133.4000	No Design
5	A10-to-A12	A10	A12	133.4000	133.2500	No Design
6	A12-to-A14	A12	A14	133.2500	133.0800	No Design
7	A14-to-A16	A14	A16	133.0800	133.0000	No Design
8	A16-AF4	A16	A-F4	133.0000	131.4100	No Design
9	AF6-AF8	A-F6	A-F8	131.7800	131.0000	No Design
10	AF8-AF10	A-F8	A-F10	131.0000	130.8000	No Design
11	AF10-AF12	A-F10	A-F12	130.8000	130.4000	No Design
12	AF12-AF14	A-F12	A-F14	130.4000	130.3800	No Design
13	AF14-AF16	A-F16	A-F14	130.4800	130.3800	No Design
14	AF16-AF18	A-F18	A-F16	130.7400	130.4800	No Design
15	AF18-AF20	A-F18	A-F20	130.7400	130.6700	No Design
16	AF20-AF22	A-F20	A-F22	130.6700	129.6400	No Design
17	AF22-AF24	A-F22	A-F24	129.6400	129.2600	No Design
18	AF24-AF26	A-F26	A-F24	129.8700	129.2600	No Design
19	AF26-AF28	A-F26	A-F28	129.8700	129.1800	No Design
20	AF28-AF30	A-F28	A-F30	129.1800	129.0500	No Design
21	AF30-AF32	A-F30	A-F32	129.0500	128.0000	No Design
22	AF32-AF34	A-F32	A-F34	128.0000	127.7500	No Design
23	AF34-AOUT	A-F34	A-OUT	127.7500	126.9000	No Design
24	AF36-AOUT	A-F36	A-OUT	127.5200	127.4000	No Design
25	AF38-AF36	A-F38	A-F36	127.8400	127.5200	No Design
26	AF40-AF38	A-F40	A-F38	128.3300	127.8400	No Design
27	C2-to-C4	C2	C4	154.9900	152.5400	No Design
28	C4-to-C6	C4	C6	152.5400	149.2800	No Design
29	C6-to-C8	C6	C8	149.2800	146.0200	No Design
30	C8-to-A-M4	C8	A-M4	136.5000	136.2600	No Design
31	AM2-AM4	A-M2	A-M4	136.3500	135.7600	No Design
32	AM4-AM6	A-M4	A-M6	135.7600	133.3500	No Design
33	AM6-AM8	A-M6	A-M8	133.3500	132.5500	No Design
34	AM8-AM12	A-M8	A-M12	132.5500	131.5800	No Design
35	AM12-AM14	A-M12	A-M14	131.5800	131.5000	No Design
36	AM14-AM16	A-M14	A-M16	131.5000	128.5300	No Design
37	AM18-AM20	A-M18	A-M20	127.9400	127.3300	No Design
38	AM20-AM24	A-M20	A-M24	127.3300	127.0600	No Design
39	AM36-AM38	A-M36	A-M38	123.0000	122.6700	No Design
40	AM28-AM26	A-M28	A-M26	123.8500	123.1500	No Design
41	AM30-AM28	A-M30	A-M28	124.5500	123.8500	No Design
42	AM32-AM30	A-M32	A-M30	125.4000	124.5500	No Design
43	AM3-AM5	A-M3	A-M5	138.3500	134.7500	No Design
44	AM5-AM7	A-M5	A-M7	134.7500	133.4500	No Design
45	AM9-AM7	A-M9	A-M7	137.0000	133.4500	No Design

46	AM7-AM6	A-M7	A-M6	133.4500	133.3500	No Design
47	AM11-AM13	A-M11	A-M13	135.5000	134.6700	No Design
48	AM13-AM15	A-M13	A-M15	134.6700	133.7200	No Design
49	AM15-AM17	A-M15	A-M17	133.7200	133.0600	No Design
50	AM17-AM19	A-M17	A-M19	133.0600	131.8400	No Design
51	AM19-AM16	A-M19	A-M16	128.8400	128.5100	No Design
52	AM21-AM19	A-M21	A-M19	134.0000	131.8400	No Design
53	AM23-AM25	A-M23	A-M25	134.1500	133.0200	No Design
54	AM25-AM27	A-M25	A-M27	133.0200	130.2000	No Design
55	AM27-AM37	A-M27	A-M37	124.3000	124.1500	No Design
56	AM26-AM38	A-M26	A-M38	122.7000	122.6700	No Design
57	C1-to-C3	C1	C3	154.9900	152.5400	No Design
58	C3-to-C5	C3	C5	152.5400	149.2800	No Design
59	C5-to-C7	C5	C7	149.2800	143.5000	No Design
60	C7-to-A-M3	C7	A-M3	139.0000	138.8500	No Design
61	AF35-AM31	A-F35	A-M31	125.6000	125.3500	No Design
62	AM33-AM31	A-M33	A-M31	125.6000	125.3500	No Design
63	B14-to-B16	B14	B16	120.3200	120.1100	No Design
64	B18-to-B20	B18	B20	119.9400	119.5600	No Design
65	B26-to-B28	B26	B28	118.0600	117.8300	No Design
66	B32-to-B34	B32	B34	117.6200	117.4000	No Design
67	B40-to-B38	B40	B38	121.0300	120.7400	No Design
68	B38-to-B36	B38	B36	118.6100	118.5300	No Design
69	BM2-BM4	B-M2	B-M4	123.5900	122.9800	No Design
70	BM4-BM6	B-M4	B-M6	119.9800	119.6900	No Design
71	B2-BM6	B2	B-M6	123.1000	122.6900	No Design
72	BM8-B20	B-M8	B20	121.3500	121.1000	No Design
73	BM10-B26	B-M10	B26	120.8500	120.5800	No Design
74	BM12-B30	B-M12	B30	120.4000	120.2600	No Design
75	BF2-B38	B-F2	B38	118.6600	118.6100	No Design
76	BF3-BF5	B-F3	B-F5	127.8800	126.6000	No Design
77	BF5-BF7	B-F5	B-F7	126.6000	125.4800	No Design
78	BF7-BF9	B-F7	B-F9	125.4800	124.2200	No Design
79	BF9-BF11	B-F9	B-F11	124.2200	122.8300	No Design
80	BM16-BM14	B-M16	B-M14	120.9600	120.7400	No Design
81	BM18-BM16	B-M18	B-M16	121.6100	120.9600	No Design
82	BM1-BM4	B-M1	B-M4	120.8000	120.4800	No Design
83	BM3-BM1	B-M3	B-M1	124.0000	123.8000	No Design
84	BM9-BM52	B-M9	B-M52	119.7100	119.5500	No Design
85	BM11-BM18	B-M11	B-M18	123.2300	121.6100	No Design
86	AM24-AM36	A-M24	A-M36	127.0600	123.0000	No Design
87	AM38-AOUT	A-M38	A-OUT	122.6700	122.6200	No Design
88	AM37-AM26	A-M37	A-M26	124.1500	124.0100	No Design
89	AM31-AM41	A-M31	A-M41	124.8500	124.6900	No Design
90	A11-AM35	A11	A-M35	125.8300	125.7800	No Design
91	AM35-AM32	A-M35	A-M32	125.7800	125.4000	No Design
92	AM39-AM28	A-M39	A-M28	126.1500	125.8500	No Design
93	AM41-AM30	A-M41	A-M30	124.6900	124.5500	No Design
94	BF20-BF22	B-F20	B-F22	124.7200	124.5800	No Design
95	BM6-BM26	B-M6	B-M26	119.6900	119.4400	No Design
96	BM20-BM26	B-M20	B-M26	122.3100	121.9500	No Design
97	BM26-BM28	B-M26	B-M28	119.4400	118.9600	No Design
98	BM28-BM30	B-M28	B-M30	118.9600	118.3400	No Design
99	BM22-BM30	B-M22	B-M30	120.5100	120.3400	No Design
100	BM30-BM32	B-M30	B-M32	118.3400	117.7300	No Design
101	BM32-BM34	B-M32	B-M34	117.7300	117.0200	No Design
102	BM24-BM34	B-M24	B-M34	119.7200	119.5200	No Design
103	BF11-BM38	B-F11	B-M38	117.2900	117.0500	No Design
104	BM38-BM36	B-M38	B-M36	117.0500	116.8500	No Design
105	BM36-BM40	B-M36	B-M40	116.8500	116.7900	No Design
106	BM40-BM42	B-M40	B-M42	116.7900	116.7500	No Design
107	BM42-BOUT	B-M42	B-OUT	116.7500	116.6600	No Design
108	B34-BM42	B34	B-M42	117.4000	117.2700	No Design
109	B36-BM42	B36	B-M42	118.5300	118.3400	No Design
110	BM34-BM36	B-M34	B-M36	117.0200	116.8500	No Design
111	BF4-BF2	B-F4	B-F2	124.5000	124.1500	No Design
112	BM50-BM48	B-M50	B-M48	118.8000	117.8800	No Design
113	BM48-BM40	B-M48	B-M40	117.8800	116.7900	No Design
114	BM52-BM50	B-M52	B-M50	119.5500	119.3000	No Design
115	BM14-BM50	B-M14	B-M50	120.7400	119.8000	No Design
116	B42-BM16	B42	B-M16	122.1400	121.9600	No Design
117	BM45-BM46	B-M45	B-M46	122.6800	122.5600	No Design
118	BM46-BM44	B-M46	B-M44	122.5600	122.2200	No Design
119	BM44-BM56	B-M44	B-M56	122.2200	122.0700	No Design
120	BM56-BM54	B-M56	B-M54	122.0700	121.9200	No Design
121	BM54-BM18	B-M54	B-M18	121.9200	121.6100	No Design
122	BM43-BM44	B-M43	B-M44	122.3800	122.2200	No Design
123	B44-BM54	B44	B-M54	121.9600	121.9200	No Design
124	BF63-BF61	B-F63	Node458	123.3000	123.2600	No Design
125	BF61-BF59	B-F61	B-F59	120.6200	120.5100	No Design
126	BF59-BF57	B-F59	B-F57	120.5100	120.3400	No Design
127	BF57-BF55	B-F57	B-F55	120.3400	120.2400	No Design
128	BF55-BF53	B-F55	B-F53	120.2400	120.1200	No Design
129	BF53-BF51	B-F53	B-F51	120.1200	119.9100	No Design
130	BF51-BF43	B-F51	B-F43	119.9100	119.8200	No Design
131	BF43-BF39	B-F43	B-F39	119.8200	119.7700	No Design
132	BF39-BF37	B-F39	B-F37	119.7700	119.5700	No Design
133	BF37-BF35	B-F37	B-F35	119.5700	119.4700	No Design
134	BF35-BF33	B-F35	B-F33	119.4700	119.3400	No Design
135	BF33-BF77	B-F33	B-F77	119.3400	119.2500	No Design
136	BF77-BF81	B-F77	B-F81	119.2500	119.2200	No Design
137	BF79-BF75	B-F79	B-F75	119.1600	119.1300	No Design
138	BF75-BF19	B-F75	B-F19	119.1300	119.0600	No Design
139	BF19-BF73	B-F19	B-F73	119.0600	118.9800	No Design
140	BF73-BF17	B-F73	B-F17	118.9800	118.8300	No Design
141	BF17-BF15	B-F17	B-F15	118.8300	118.6800	No Design
142	BF15-BF13	B-F15	B-F13	118.6800	118.5300	No Design
143	BF13-BF71	B-F13	B-F71	118.5300	118.3800	No Design
144	BF45-BF41	B-F45	B-F41	129.0400	128.6900	No Design
145	BF41-BF39	B-F41	B-F39	122.4400	120.7700	No Design
146	BF49-BF47	B-F49	B-F47	129.8400	129.7400	No Design
147	BF47-BF43	B-F47	B-F43	122.0400	120.3200	No Design
148	BF81-BF79	B-F81	B-F79	119.2200	119.1600	No Design
149	BF71-BF67	B-F71	B-F67	118.3800	117.3500	No Design
150	BF67-BF11	B-F67	B-F11	117.3500	117.2900	No Design
151	BF22-BF25	B-F22	B-F25	124.5800	124.3800	No Design
152	BF23-BF25	B-F23	B-F25	124.6500	124.3800	No Design
153	BF25-BF27	B-F25	B-F27	122.8800	122.6400	No Design
154	BF27-BF29	B-F27	B-F29	121.6400	121.4600	No Design
155	BF29-BF31	B-F29	B-F31	121.4600	121.2500	No Design
156	BF31-BM1	B-F31	B-M1	121.2500	120.8000	No Design
157	BF21-BF25	B-F21	B-F25	123.0000	122.8800	No Design
158	BF1-BF27	B-F1	B-F27	122.8400	122.6400	No Design
159	E100	A-OUT	E100-OUT	122.6200	122.0700	No Design
160	E131	E131-OUT	B-OUT	117.8500	116.6600	No Design
161	OF A-M16	A-M16	A-F26	134.0000	134.0000	No Design
162	OF A11	A11	B-F23	129.5000	128.3000	No Design
163	D2-D1	D2	D1	122.5000	122.0100	No Design
164	D1-D3	D1	D3	119.8800	119.7600	No Design
165	D3-D5	D3	D5	119.2600	119.1000	No Design
166	D5-D7	D5	D7	117.9800	117.8300	No Design
167	D7-D9	D7	D9	116.8300	116.5400	No Design
168	D9-D11	D9	D11	115.9200	115.8900	No Design
169	D11-D13	D11	D13	115.8900	115.8300	No Design
170	D13-D15	D13	D15	115.8300	115.7600	No Design
171	D15-D17	D15	D17	115.7600	115.1000	No Design
172	D17-D19	D17	D19	115.1000	115.0300	No Design
173	D19-D21	D19	D21	115.0300	114.9500	No Design

174	D21-D23	D21	D23	114.9500	114.8900	No Design
175	D23-D25	D23	D25	114.8900	114.7400	No Design
176	D25-D27	D25	D27	114.7400	114.5600	No Design
177	D27-D29	D27	D29	114.5600	114.3700	No Design
178	D29-D31	D29	D31	114.3700	114.2700	No Design
179	D31-D33	D31	D33	114.2700	114.0700	No Design
180	D33-D35	D33	D35	114.0700	113.9000	No Design
181	D35-D37	D35	D37	112.9000	112.8500	No Design
182	D4-D3	D4	D3	120.3700	120.1400	No Design
183	D6-D5	D6	D5	119.7900	119.5600	No Design
184	D8-D7	D8	D7	118.4600	118.3400	No Design
185	D10-D9	D10	D9	119.0500	118.8600	No Design
186	D12-D11	D12	D11	117.6500	117.5400	No Design
187	D14-D13	D14	D13	119.2600	119.0700	No Design
188	D16-D15	D16	D15	120.1600	119.9700	No Design
189	D18-D17	D18	D17	120.1600	119.9700	No Design
190	D20-D19	D20	D19	119.0200	118.8300	No Design
191	D22-D21	D22	D21	118.6000	118.4100	No Design
192	D24-D23	D24	D23	117.1900	116.8900	No Design
193	D26-D25	D26	D25	118.3600	117.7400	No Design
194	D28-D27	D28	D27	118.3100	117.5600	No Design
195	D30-D29	D30	D29	118.1800	117.3800	No Design
196	D32-D31	D32	D31	116.6300	116.2800	No Design
197	D34-D33	D34	D33	117.7900	116.5900	No Design
198	D38-D36	D38	D36	120.5000	119.5000	No Design
199	D36-D35	D36	D35	118.7700	116.9200	No Design
200	F2-F4	F2	F4	119.5200	119.0200	No Design
201	F4-F10	F4	F10	118.5200	118.2200	No Design
202	F10-F12	F10	F12	118.2200	117.8800	No Design
203	F12-F14	F12	F14	117.8800	117.8500	No Design
204	F14-F16	F14	F16	115.5800	115.5200	No Design
205	F16-F18	F16	F18	115.5200	115.4200	No Design
206	F18-F20	F18	F20	114.9200	114.9100	No Design
207	F20-F22	F20	F22	111.7300	111.7300	No Design
208	F22-F24	F22	F24	114.8900	114.8300	No Design
209	F24-F26	F24	F26	114.3300	114.2700	No Design
210	F26-F28	F26	F28	114.2700	114.1900	No Design
211	F6-F8	F6	F8	124.0700	123.9700	No Design
212	F8-F10	F8	F10	122.0500	121.9100	No Design
213	F1-F3	F1	F3	122.0700	121.5000	No Design
214	F3-F9	F3	F9	120.0000	119.6600	No Design
215	F9-F11	F9	F11	119.6600	119.3300	No Design
216	F11-F14	F11	F14	119.3300	118.0000	No Design
217	F5-F7	F5	F7	124.3100	124.2100	No Design
218	F7-F3	F7	F3	122.2900	122.1500	No Design
219	F13-F16	F13	F16	121.0100	118.2000	No Design
220	F15-F18	F15	F18	120.3200	118.1000	No Design
221	F17-F24	F17	F24	120.9900	118.0000	No Design
222	F19-F26	F19	F26	121.6900	121.4800	No Design
223	F21-F28	F21	F28	121.5700	121.3600	No Design
224	OF AM33	A-M33	A11	130.0000	129.6000	No Design
225	OF B36	B36	B-OUT	127.0000	125.0000	No Design
226	OF B34	B34	B-OUT	126.4000	125.0000	No Design
227	OF BF20	B-F20	A-F38	129.5000	129.0000	No Design
228	OF BM11	B-M11	B-F73	127.0000	125.5000	No Design
229	AM5-AM5B	A-M5	A-M5B	134.6000	134.6000	No Design
230	338.1	A-F6	A-F4	131.7800	131.4100	No Design
231	DW AF4	A-F4	A-F6	134.9100	134.7500	No Design
232	ss AM16	A-M16	A-M18	128.5100	127.9400	No Design
233	ditch AM16	A-M16	A-M18	133.0000	132.6500	No Design
234	SS B4	B4	B6	123.2100	122.2700	No Design
235	RD B4	B4	B6	128.0200	127.4900	No Design
236	SS B6	B6	B8	122.2700	121.9800	No Design
237	RD B6	B6	B8	127.4900	126.9700	No Design
238	SS B8	B8	B10	121.9800	121.7100	No Design
239	RD B8	B8	B10	126.9700	126.4400	No Design
240	SS B10	B10	B12	121.7100	120.9400	No Design
241	RD B10	B10	B12	126.4400	125.9400	No Design
242	SS B12	B12	B14	120.4400	120.3200	No Design
243	RD B12	B14	B12	126.2500	125.9400	No Design
244	SS B16	B16	B18	120.1100	119.9400	No Design
245	RD B16	B16	B18	126.2800	125.9000	No Design
246	SS B20	B20	B22	119.0600	118.8600	No Design
247	RD B20	B20	B22	125.7800	125.2400	No Design
248	SS B22	B22	B24	118.8600	118.6600	No Design
249	RD B22	B22	B24	125.2400	124.7200	No Design
250	SS B24	B24	B26	118.1600	118.0600	No Design
251	RD B24	B26	B24	125.1000	124.7200	No Design
252	SS B28	B28	B30	117.8300	117.7600	No Design
253	RD B28	B28	B30	125.2700	125.0000	No Design
254	SS B30	B30	B32	117.7600	117.6200	No Design
255	RD B30	B32	B30	125.5800	125.0000	No Design
256	ss bf63	B-F63	B-F65	123.3000	123.0000	No Design
257	rd bf63	B-F63	B-F65	128.4100	128.4100	No Design

====> Warning !!! Node: B-F3 Area decreases between stages 0.000 and 0.000
====> Warning !!! Node: B-F3 Area = 0.0 at stage 0.000 Area reset to 0.001

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| Storage Junction Data |
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STORAGE JUNCTION NUMBER OR NAME	JUNCTION TYPE	MAXIMUM OR CONSTANT SURFACE AREA (FT2)	PEAK OR CONSTANT VOLUME (CUBIC FEET)	CROWN ELEVATION (FT)	DEPTH STARTS FROM
B12	Stage/Area	3920.4000	22536.5362	126.4400	Spill Crest
B18	Stage/Area	3920.4000	24339.9202	126.4000	Spill Crest
B24	Stage/Area	10454.4000	74878.6754	125.7000	Spill Crest
B30	Stage/Area	4356.0000	32619.8673	125.5000	Spill Crest
B-M8	Stage/Area	4356.0000	24256.3473	127.1700	Spill Crest
B42	Stage/Area	6969.6000	32118.3869	127.0000	Spill Crest
B-M10	Stage/Area	4356.0000	22165.4673	126.1900	Spill Crest
B-M12	Stage/Area	4356.0000	26608.5873	126.7600	Spill Crest
B-M9	Stage/Area	11761.2000	93930.8799	128.2000	Node Invert
B-M14	Stage/Area	3484.8000	23651.8762	128.0300	Node Invert
B-F3	Stage/Area	10890.0000	13985.3277	129.5000	Node Invert
B-F11	Stage/Area	6534.0000	53622.8420	126.0000	Node Invert
B2	Stage/Area	4791.6000	22270.6023	128.1000	Spill Crest
B-F73	Stage/Area	5662.8000	4266.4880	126.5000	Node Invert
B-F75	Stage/Area	6534.0000	6538.2718	126.5000	Node Invert
B-F77	Stage/Area	19602.0000	29544.8527	127.0000	Node Invert
B-F20	Stage/Area	2178.0000	12041.7753	130.5000	Node Invert
B-F71	Stage/Area	7840.8000	57773.5832	126.0000	Node Invert
B-M24	Stage/Area	2178.0000	21310.4476	129.6300	Spill Crest
B-M38	Stage/Area	2178.0000	28084.0276	130.0700	Spill Crest
B44	Stage/Area	4356.0000	15805.7073	125.8400	Spill Crest
B-F63	Stage/Area	52272.0000	227496.0390	128.9100	Node Invert
B-F57	Stage/Area	6098.4000	45312.1534	127.9000	Spill Crest
B-F55	Stage/Area	15681.6000	62809.8396	125.5000	Spill Crest
B-F53	Stage/Area	6098.4000	33420.8342	125.8000	Spill Crest
B-F51	Stage/Area	9147.6000	54792.8499	126.0000	Spill Crest
B-F43	Stage/Area	9147.6000	48752.2487	125.5000	Spill Crest
B-F39	Stage/Area	9147.6000	43626.4075	125.1400	Spill Crest
B-F37	Stage/Area	8276.4000	49988.7812	125.7100	Spill Crest
B-F35	Stage/Area	16117.2000	85320.4853	125.0900	Spill Crest
B-F19	Stage/Area	7840.8000	7980.8788	126.5000	Node Invert

B-F17	Stage/Area	10018.8000	7668.8163	126.5000	Node Invert
B-F15	Stage/Area	4791.6000	38181.6679	126.9000	Node Invert
B-F13	Stage/Area	8712.0000	6686.1952	126.0000	Node Invert
B-F21	Stage/Area	19602.0000	112533.6866	130.0000	Node Invert
B-F23	Stage/Area	6534.0000	33312.7510	130.0000	Spill Crest
D2	Stage/Area	6098.4000	16741.1092	126.0000	Node Invert
D23	Stage/Area	4356.0000	33749.7982	122.9900	Spill Crest
D35	Stage/Area	2613.6000	27230.3546	123.5700	Spill Crest
D8	Stage/Area	3920.4000	20089.1681	123.7100	Spill Crest
D24	Stage/Area	4356.0000	23730.9982	122.9900	Spill Crest

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| Variable storage data for node | B12
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	120.4400	0.0000	4.3560	0.0000	0.0001	0.0000
2	120.5025	0.0625	493.8615	11.3458	0.0113	0.0003
3	120.5650	0.1250	983.3670	56.6398	0.0226	0.0013
4	120.6275	0.1875	1472.8725	132.8841	0.0338	0.0031
5	120.6900	0.2500	1962.3780	239.8705	0.0450	0.0055
6	120.7525	0.3125	2451.8835	377.5326	0.0563	0.0087
7	120.8150	0.3750	2941.3890	545.8405	0.0675	0.0125
8	120.8775	0.4375	3430.8945	744.7782	0.0788	0.0171
9	120.9400	0.5000	3920.4000	974.3362	0.0900	0.0224
10	126.4400	6.0000	3920.4000	22536.5362	0.0900	0.5174

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| Variable storage data for node | B18
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	119.9400	0.0000	4.3560	0.0000	0.0001	0.0000
2	120.0025	0.0625	493.8615	11.3458	0.0113	0.0003
3	120.0650	0.1250	983.3670	56.6398	0.0226	0.0013
4	120.1275	0.1875	1472.8725	132.8841	0.0338	0.0031
5	120.1900	0.2500	1962.3780	239.8705	0.0450	0.0055
6	120.2525	0.3125	2451.8835	377.5326	0.0563	0.0087
7	120.3150	0.3750	2941.3890	545.8405	0.0675	0.0125
8	120.3775	0.4375	3430.8945	744.7782	0.0788	0.0171
9	120.4400	0.5000	3920.4000	974.3362	0.0900	0.0224
10	126.4000	6.4600	3920.4000	24339.9202	0.0900	0.5588

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| Variable storage data for node | B24
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	118.1600	0.0000	4.3560	0.0000	0.0001	0.0000
2	118.2537	0.0938	1310.6115	43.4539	0.0301	0.0010
3	118.3475	0.1875	2616.8670	224.0609	0.0601	0.0051
4	118.4412	0.2812	3923.1225	528.5638	0.0901	0.0121
5	118.5350	0.3750	5229.3780	956.1233	0.1200	0.0219
6	118.6287	0.4688	6535.6335	1506.4716	0.1500	0.0346
7	118.7225	0.5625	7841.8890	2179.4889	0.1800	0.0500
8	118.8162	0.6562	9148.1445	2975.1110	0.2100	0.0683
9	118.9100	0.7500	10454.4000	3893.2994	0.2400	0.0894
10	125.7000	7.5400	10454.4000	74878.6754	0.2400	1.7190

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| Variable storage data for node | B30
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	117.7600	0.0000	4.3560	0.0000	0.0001	0.0000
2	117.8225	0.0625	548.3115	12.5321	0.0126	0.0003
3	117.8850	0.1250	1092.2670	62.8335	0.0251	0.0014
4	117.9475	0.1875	1636.2225	147.5282	0.0376	0.0034
5	118.0100	0.2500	2180.1780	266.3848	0.0501	0.0061
6	118.0725	0.3125	2724.1335	419.3294	0.0625	0.0096
7	118.1350	0.3750	3268.0890	606.3286	0.0750	0.0139
8	118.1975	0.4375	3812.0445	827.3648	0.0875	0.0190
9	118.2600	0.5000	4356.0000	1082.4273	0.1000	0.0248
10	125.5000	7.7400	4356.0000	32619.8673	0.1000	0.7488

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| Variable storage data for node | B-M8
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	121.3500	0.0000	4.3560	0.0000	0.0001	0.0000
2	121.4125	0.0625	548.3115	12.5321	0.0126	0.0003
3	121.4750	0.1250	1092.2670	62.8335	0.0251	0.0014
4	121.5375	0.1875	1636.2225	147.5282	0.0376	0.0034
5	121.6000	0.2500	2180.1780	266.3848	0.0501	0.0061
6	121.6625	0.3125	2724.1335	419.3294	0.0625	0.0096
7	121.7250	0.3750	3268.0890	606.3286	0.0750	0.0139
8	121.7875	0.4375	3812.0445	827.3648	0.0875	0.0190
9	121.8500	0.5000	4356.0000	1082.4273	0.1000	0.0248
10	127.1700	5.8200	4356.0000	24256.3473	0.1000	0.5568

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| Variable storage data for node | B42
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	122.1400	0.0000	4.3560	0.0000	0.0001	0.0000
2	122.2025	0.0625	875.0115	19.6064	0.0201	0.0005
3	122.2650	0.1250	1745.6670	99.9520	0.0401	0.0023
4	122.3275	0.1875	2616.3225	235.3498	0.0601	0.0054
5	122.3900	0.2500	3486.9780	425.4278	0.0800	0.0098
6	122.4525	0.3125	4357.6335	670.0670	0.1000	0.0154
7	122.5150	0.3750	5228.2890	969.2144	0.1200	0.0223
8	122.5775	0.4375	6098.9445	1322.8414	0.1400	0.0304
9	122.6400	0.5000	6969.6000	1730.9309	0.1600	0.0397
10	127.0000	4.8600	6969.6000	32118.3869	0.1600	0.7373

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| Variable storage data for node | B-M10
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	120.8500	0.0000	4.3560	0.0000	0.0001	0.0000
2	120.9125	0.0625	548.3115	12.5321	0.0126	0.0003
3	120.9750	0.1250	1092.2670	62.8335	0.0251	0.0014
4	121.0375	0.1875	1636.2225	147.5282	0.0376	0.0034
5	121.1000	0.2500	2180.1780	266.3848	0.0501	0.0061
6	121.1625	0.3125	2724.1335	419.3294	0.0625	0.0096
7	121.2250	0.3750	3268.0890	606.3286	0.0750	0.0139
8	121.2875	0.4375	3812.0445	827.3648	0.0875	0.0190
9	121.3500	0.5000	4356.0000	1082.4273	0.1000	0.0248

10	126.1900	5.3400	4356.0000	22165.4673	0.1000	0.5088

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| Variable storage data for node | B-M12
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	120.4000	0.0000	4.3560	0.0000	0.0001	0.0000
2	120.4625	0.0625	548.3115	12.5321	0.0126	0.0003
3	120.5250	0.1250	1092.2670	62.8335	0.0251	0.0014
4	120.5875	0.1875	1636.2225	147.5282	0.0376	0.0034
5	120.6500	0.2500	2180.1780	266.3848	0.0501	0.0061
6	120.7125	0.3125	2724.1335	419.3294	0.0625	0.0096
7	120.7750	0.3750	3268.0890	606.3286	0.0750	0.0139
8	120.8375	0.4375	3812.0445	827.3648	0.0875	0.0190
9	120.9000	0.5000	4356.0000	1082.4273	0.1000	0.0248
10	126.7600	6.3600	4356.0000	26608.5873	0.1000	0.6108

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| Variable storage data for node | B-M9
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	119.7100	0.0000	4.3560	0.0000	0.0001	0.0000
2	119.8350	0.1250	1473.9615	64.9352	0.0338	0.0015
3	119.9600	0.2500	2943.5670	335.7888	0.0676	0.0077
4	120.0850	0.3750	4413.1725	792.4958	0.1013	0.0182
5	120.2100	0.5000	5882.7780	1433.7964	0.1351	0.0329
6	120.3350	0.6250	7352.3835	2259.2889	0.1688	0.0519
7	120.4600	0.7500	8821.9890	3268.7934	0.2025	0.0750
8	120.5850	0.8750	10291.5945	4462.2136	0.2363	0.1024
9	120.7100	1.0000	11761.2000	5839.4919	0.2700	0.1341
10	128.2000	8.4900	11761.2000	93930.8799	0.2700	2.1564

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| Variable storage data for node | B-M14
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	120.7400	0.0000	4.3560	0.0000	0.0001	0.0000
2	120.8650	0.1250	439.4115	20.3132	0.0101	0.0005
3	120.9900	0.2500	874.4670	100.8865	0.0201	0.0023
4	121.1150	0.3750	1309.5225	236.4740	0.0301	0.0054
5	121.2400	0.5000	1744.5780	426.7064	0.0401	0.0098
6	121.3650	0.6250	2179.6335	671.4656	0.0500	0.0154
7	121.4900	0.7500	2614.6890	970.6987	0.0600	0.0223
8	121.6150	0.8750	3049.7445	1324.3772	0.0700	0.0304
9	121.7400	1.0000	3484.8000	1732.4842	0.0800	0.0398
10	128.0300	7.2900	3484.8000	23651.8762	0.0800	0.5430

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| Variable storage data for node | B-F3
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	127.8800	0.0000	43.5600	0.0000	0.0010	0.0000
2	127.8800	0.0000	43.5600	0.0000	0.0010	0.0000
3	127.8800	0.0000	43.5600	0.0000	0.0010	0.0000
4	127.8800	0.0000	43.5600	0.0000	0.0010	0.0000
5	127.8800	0.0000	43.5600	0.0000	0.0010	0.0000
6	127.8800	0.0000	43.5600	0.0000	0.0010	0.0000
7	127.8800	0.0000	43.5600	0.0000	0.0010	0.0000
8	127.8800	0.0000	43.5600	0.0000	0.0010	0.0000
9	127.8800	0.0000	43.5600	0.0000	0.0010	0.0000
10	127.9637	0.0838	1399.3650	47.1741	0.0321	0.0011
11	128.0475	0.1675	2755.1700	217.9704	0.0633	0.0050
12	128.1312	0.2513	4110.9750	503.6031	0.0944	0.0116
13	128.2150	0.3350	5466.7800	903.3254	0.1255	0.0207
14	128.2987	0.4188	6822.5850	1416.8954	0.1566	0.0325
15	128.3825	0.5025	8178.3900	2044.2043	0.1878	0.0469
16	128.4663	0.5863	9534.1950	2785.1934	0.2189	0.0639
17	128.5500	0.6700	10890.0000	3639.8277	0.2500	0.0836
18	129.5000	1.6200	10890.0000	13985.3277	0.2500	0.3211

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| Variable storage data for node | B-F11
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	117.2900	0.0000	4.3560	0.0000	0.0001	0.0000
2	117.4150	0.1250	820.5615	36.8626	0.0188	0.0008
3	117.5400	0.2500	1636.7670	187.5392	0.0376	0.0043
4	117.6650	0.3750	2452.9725	441.4338	0.0563	0.0101
5	117.7900	0.5000	3269.1780	797.8493	0.0750	0.0183
6	117.9150	0.6250	4085.3835	1256.5629	0.0938	0.0288
7	118.0400	0.7500	4901.5890	1817.4749	0.1125	0.0417
8	118.1650	0.8750	5717.7945	2480.5319	0.1313	0.0569
9	118.2900	1.0000	6534.0000	3245.7020	0.1500	0.0745
10	126.0000	8.7100	6534.0000	53622.8420	0.1500	1.2310

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| Variable storage data for node | B2
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	123.1000	0.0000	4.3560	0.0000	0.0001	0.0000
2	123.1875	0.0875	602.7615	19.2021	0.0138	0.0004
3	123.2750	0.1750	1201.1670	96.6344	0.0276	0.0022
4	123.3625	0.2625	1799.5725	227.0378	0.0413	0.0052
5	123.4500	0.3500	2397.9780	410.0554	0.0551	0.0094
6	123.5375	0.4375	2996.3835	645.5731	0.0688	0.0148
7	123.6250	0.5250	3594.7890	933.5400	0.0825	0.0214
8	123.7125	0.6125	4193.1945	1273.9285	0.0963	0.0292
9	123.8000	0.7000	4791.6000	1666.7223	0.1100	0.0383
10	128.1000	5.0000	4791.6000	22270.6023	0.1100	0.5113

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| Variable storage data for node | B-F73
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	118.9800	0.0000	4.3560	0.0000	0.0001	0.0000
2	119.7950	0.8150	4.3560	3.5501	0.0001	0.0001
3	120.6100	1.6300	4.3560	7.1003	0.0001	0.0002
4	121.4250	2.4450	4.3560	10.6504	0.0001	0.0002
5	122.2400	3.2600	4.3560	14.2006	0.0001	0.0003
6	123.0550	4.0750	4.3560	17.7507	0.0001	0.0004
7	123.8700	4.8900	4.3560	21.3008	0.0001	0.0005
8	124.6850	5.7050	4.3560	24.8510	0.0001	0.0006
9	125.5000	6.5200	4.3560	28.4011	0.0001	0.0007
10	125.5625	6.5825	711.6615	44.4781	0.0163	0.0010

11	125.6250	6.6450	1418.9670	109.8016	0.0326	0.0025
12	125.6875	6.7075	2126.2725	219.8479	0.0488	0.0050
13	125.7500	6.7700	2833.5780	374.3152	0.0650	0.0086
14	125.8125	6.8325	3540.8835	573.1071	0.0813	0.0132
15	125.8750	6.8950	4248.1890	816.1804	0.0975	0.0187
16	125.9375	6.9575	4955.4945	1103.5120	0.1138	0.0253
17	126.0000	7.0200	5662.8000	1435.0880	0.1300	0.0329
18	126.0625	7.0825	5662.8000	1789.0130	0.1300	0.0411
19	126.1250	7.1450	5662.8000	2142.9380	0.1300	0.0492
20	126.1875	7.2075	5662.8000	2496.8630	0.1300	0.0573
21	126.2500	7.2700	5662.8000	2850.7880	0.1300	0.0654
22	126.3125	7.3325	5662.8000	3204.7130	0.1300	0.0736
23	126.3750	7.3950	5662.8000	3558.6380	0.1300	0.0817
24	126.4375	7.4575	5662.8000	3912.5630	0.1300	0.0898
25	126.5000	7.5200	5662.8000	4266.4880	0.1300	0.0979

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| Variable storage data for node | B-F75
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	119.1300	0.0000	4.3560	0.0000	0.0001	0.0000
2	119.8637	0.7338	4.3560	3.1962	0.0001	0.0001
3	120.5975	1.4675	4.3560	6.3924	0.0001	0.0001
4	121.3312	2.2012	4.3560	9.5886	0.0001	0.0002
5	122.0650	2.9350	4.3560	12.7849	0.0001	0.0003
6	122.7987	3.6688	4.3560	15.9811	0.0001	0.0004
7	123.5325	4.4025	4.3560	19.1773	0.0001	0.0004
8	124.2662	5.1363	4.3560	22.3735	0.0001	0.0005
9	125.0000	5.8700	4.3560	25.5697	0.0001	0.0006
10	125.1250	5.9950	820.5615	62.4324	0.0188	0.0014
11	125.2500	6.1200	1636.7670	213.1089	0.0376	0.0049
12	125.3750	6.2450	2452.9725	467.0036	0.0563	0.0107
13	125.5000	6.3700	3269.1780	823.4190	0.0750	0.0189
14	125.6250	6.4950	4085.3835	1282.1326	0.0938	0.0294
15	125.7500	6.6200	4901.5890	1843.0446	0.1125	0.0423
16	125.8750	6.7450	5717.7945	2506.1016	0.1313	0.0575
17	126.0000	6.8700	6534.0000	3271.2718	0.1500	0.0751
18	126.0625	6.9325	6534.0000	3679.6468	0.1500	0.0845
19	126.1250	6.9950	6534.0000	4088.0218	0.1500	0.0938
20	126.1875	7.0575	6534.0000	4496.3968	0.1500	0.1032
21	126.2500	7.1200	6534.0000	4904.7718	0.1500	0.1126
22	126.3125	7.1825	6534.0000	5313.1468	0.1500	0.1220
23	126.3750	7.2450	6534.0000	5721.5218	0.1500	0.1313
24	126.4375	7.3075	6534.0000	6129.8968	0.1500	0.1407
25	126.5000	7.3700	6534.0000	6538.2718	0.1500	0.1501
26	126.5000	7.3700	6534.0000	6538.2718	0.1500	0.1501

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| Variable storage data for node | B-F77
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	119.2500	0.0000	43.5600	0.0000	0.0010	0.0000
2	119.9062	0.6562	43.5600	28.5862	0.0010	0.0007
3	120.5625	1.3125	43.5600	57.1725	0.0010	0.0013
4	121.2188	1.9688	43.5600	85.7588	0.0010	0.0020
5	121.8750	2.6250	43.5600	114.3450	0.0010	0.0026
6	122.5312	3.2812	43.5600	142.9313	0.0010	0.0033
7	123.1875	3.9375	43.5600	171.5175	0.0010	0.0039
8	123.8438	4.5938	43.5600	200.1037	0.0010	0.0046
9	124.5000	5.2500	43.5600	228.6900	0.0010	0.0052
10	124.7500	5.5000	2488.3650	467.1197	0.0571	0.0107
11	125.0000	5.7500	4933.1700	1377.5513	0.1133	0.0316
12	125.2500	6.0000	7377.9750	2906.2281	0.1694	0.0667
13	125.5000	6.2500	9822.7800	5049.0462	0.2255	0.1159
14	125.7500	6.5000	12267.5850	7804.6875	0.2816	0.1792
15	126.0000	6.7500	14712.3900	11172.5595	0.3377	0.2565
16	126.2500	7.0000	17157.1950	15152.3446	0.3939	0.3478
17	126.5000	7.2500	19602.0000	19743.8527	0.4500	0.4533
18	126.5625	7.3125	19602.0000	20968.9777	0.4500	0.4814
19	126.6250	7.3750	19602.0000	22194.1027	0.4500	0.5095
20	126.6875	7.4375	19602.0000	23419.2277	0.4500	0.5376
21	126.7500	7.5000	19602.0000	24644.3527	0.4500	0.5658
22	126.8125	7.5625	19602.0000	25869.4777	0.4500	0.5939
23	126.8750	7.6250	19602.0000	27094.6027	0.4500	0.6220
24	126.9375	7.6875	19602.0000	28319.7277	0.4500	0.6501
25	127.0000	7.7500	19602.0000	29544.8527	0.4500	0.6783

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| Variable storage data for node | B-F20
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	124.7200	0.0000	4.3560	0.0000	0.0001	0.0000
2	124.7825	0.0625	276.0615	6.5645	0.0063	0.0002
3	124.8450	0.1250	547.7670	31.8290	0.0126	0.0007
4	124.9075	0.1875	819.4725	74.2711	0.0188	0.0017
5	124.9700	0.2500	1091.1780	133.7767	0.0251	0.0031
6	125.0325	0.3125	1362.8835	210.3090	0.0313	0.0048
7	125.0950	0.3750	1634.5890	303.8514	0.0375	0.0070
8	125.1575	0.4375	1906.2945	414.3953	0.0438	0.0095
9	125.2200	0.5000	2178.0000	541.9353	0.0500	0.0124
10	130.5000	5.7800	2178.0000	12041.7753	0.0500	0.2764

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| Variable storage data for node | B-F71
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	118.3800	0.0000	4.3560	0.0000	0.0001	0.0000
2	118.4425	0.0625	983.9115	21.9528	0.0226	0.0005
3	118.5050	0.1250	1963.4670	112.3132	0.0451	0.0026
4	118.5675	0.1875	2943.0225	264.6121	0.0676	0.0061
5	118.6300	0.2500	3922.5780	478.4304	0.0900	0.0110
6	118.6925	0.3125	4902.1335	753.6346	0.1125	0.0173
7	118.7550	0.3750	5881.6890	1090.1647	0.1350	0.0250
8	118.8175	0.4375	6861.2445	1487.9886	0.1575	0.0342
9	118.8800	0.5000	7840.8000	1947.0872	0.1800	0.0447
10	126.0000	7.6200	7840.8000	57773.5832	0.1800	1.3263

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| Variable storage data for node | B-M24
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	119.7200	0.0000	4.3560	0.0000	0.0001	0.0000
2	119.7512	0.0313	276.0615	3.2822	0.0063	0.0001
3	119.7825	0.0625	547.7670	15.9145	0.0126	0.0004
4	119.8137	0.0938	819.4725	37.1356	0.0188	0.0009
5	119.8450	0.1250	1091.1780	66.8884	0.0251	0.0015
6	119.8762	0.1562	1362.8835	105.1545	0.0313	0.0024
7	119.9075	0.1875	1634.5890	151.9257	0.0375	0.0035

8	119.9387	0.2188	1906.2945	207.1976	0.0438	0.0048
9	119.9700	0.2500	2178.0000	270.9676	0.0500	0.0062
10	129.6300	9.9100	2178.0000	21310.4476	0.0500	0.4892

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| Variable storage data for node | B-M38
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	117.0500	0.0000	4.3560	0.0000	0.0001	0.0000
2	117.0812	0.0313	276.0615	3.2822	0.0063	0.0001
3	117.1125	0.0625	547.7670	15.9145	0.0126	0.0004
4	117.1437	0.0938	819.4725	37.1356	0.0188	0.0009
5	117.1750	0.1250	1091.1780	66.8884	0.0251	0.0015
6	117.2062	0.1562	1362.8835	105.1545	0.0313	0.0024
7	117.2375	0.1875	1634.5890	151.9257	0.0375	0.0035
8	117.2687	0.2188	1906.2945	207.1976	0.0438	0.0048
9	117.3000	0.2500	2178.0000	270.9676	0.0500	0.0062
10	130.0700	13.0200	2178.0000	28084.0276	0.0500	0.6447

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| Variable storage data for node | B44
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	121.9600	0.0000	4.3560	0.0000	0.0001	0.0000
2	122.0225	0.0625	548.3115	12.5321	0.0126	0.0003
3	122.0850	0.1250	1092.2670	62.8335	0.0251	0.0014
4	122.1475	0.1875	1636.2225	147.5282	0.0376	0.0034
5	122.2100	0.2500	2180.1780	266.3848	0.0501	0.0061
6	122.2725	0.3125	2724.1335	419.3294	0.0625	0.0096
7	122.3350	0.3750	3268.0890	606.3286	0.0750	0.0139
8	122.3975	0.4375	3812.0445	827.3648	0.0875	0.0190
9	122.4600	0.5000	4356.0000	1082.4273	0.1000	0.0248
10	125.8400	3.8800	4356.0000	15805.7073	0.1000	0.3628

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| Variable storage data for node | B-F63
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	123.3000	0.0000	43.5600	0.0000	0.0010	0.0000
2	123.6125	0.3125	6572.1150	744.8675	0.1509	0.0171
3	123.9250	0.6250	13100.6700	3760.6743	0.3007	0.0863
4	124.2375	0.9375	19629.2250	8840.4638	0.4506	0.2029
5	124.5500	1.2500	26157.7800	15970.3173	0.6005	0.3666
6	124.8625	1.5625	32686.3350	25145.7893	0.7504	0.5773
7	125.1750	1.8750	39214.8900	36364.8867	0.9002	0.8348
8	125.4875	2.1875	45743.4450	49626.5425	1.0501	1.1393
9	125.8000	2.5000	52272.0000	64930.1190	1.2000	1.4906
10	128.9100	5.6100	52272.0000	227496.0390	1.2000	5.2226

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| Variable storage data for node | B-F57
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	120.3400	0.0000	43.5600	0.0000	0.0010	0.0000
2	120.3725	0.0325	800.4150	11.1659	0.0184	0.0003
3	120.4050	0.0650	1557.2700	48.8024	0.0358	0.0011
4	120.4375	0.0975	2314.1250	111.3079	0.0531	0.0026
5	120.4700	0.1300	3070.9800	198.5263	0.0705	0.0046
6	120.5025	0.1625	3827.8350	310.4065	0.0879	0.0071
7	120.5350	0.1950	4584.6900	446.9253	0.1053	0.0103
8	120.5675	0.2275	5341.5450	608.0701	0.1226	0.0140
9	120.6000	0.2600	6098.4000	793.8334	0.1400	0.0182
10	127.9000	7.5600	6098.4000	45312.1534	0.1400	1.0402

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| Variable storage data for node | B-F55
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	120.2400	0.0000	43.5600	0.0000	0.0010	0.0000
2	120.5525	0.3125	1998.3150	243.4283	0.0459	0.0056
3	120.8650	0.6250	3953.0700	1156.1352	0.0907	0.0265
4	121.1775	0.9375	5907.8250	2686.7078	0.1356	0.0617
5	121.4900	1.2500	7862.5800	4831.0707	0.1805	0.1109
6	121.8025	1.5625	9817.3350	7587.9119	0.2254	0.1742
7	122.1150	1.8750	11772.0900	10956.6410	0.2702	0.2515
8	122.4275	2.1875	13726.8450	14936.9414	0.3151	0.3429
9	122.7400	2.5000	15681.6000	19528.6236	0.3600	0.4483
10	125.5000	5.2600	15681.6000	62809.8396	0.3600	1.4419

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| Variable storage data for node | B-F53
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	120.1200	0.0000	43.5600	0.0000	0.0010	0.0000
2	120.1700	0.0500	800.4150	17.1783	0.0184	0.0004
3	120.2200	0.1000	1557.2700	75.0806	0.0358	0.0017
4	120.2700	0.1500	2314.1250	171.2429	0.0531	0.0039
5	120.3200	0.2000	3070.9800	305.4251	0.0705	0.0070
6	120.3700	0.2500	3827.8350	477.5485	0.0879	0.0110
7	120.4200	0.3000	4584.6900	687.5773	0.1053	0.0158
8	120.4700	0.3500	5341.5450	935.4924	0.1226	0.0215
9	120.5200	0.4000	6098.4000	1221.2822	0.1400	0.0280
10	125.8000	5.6800	6098.4000	33420.8342	0.1400	0.7672

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| Variable storage data for node | B-F51
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	119.9100	0.0000	43.5600	0.0000	0.0010	0.0000
2	119.9350	0.0250	1181.5650	12.0999	0.0271	0.0003
3	119.9600	0.0500	2319.5700	55.0720	0.0532	0.0013
4	119.9850	0.0750	3457.5750	126.8147	0.0794	0.0029
5	120.0100	0.1000	4595.5800	227.1424	0.1055	0.0052
6	120.0350	0.1250	5733.5850	355.9950	0.1316	0.0082
7	120.0600	0.1500	6871.5900	513.3452	0.1578	0.0118
8	120.0850	0.1750	8009.5950	699.1784	0.1839	0.0161
9	120.1100	0.2000	9147.6000	913.4859	0.2100	0.0210
10	126.0000	6.0900	9147.6000	54792.8499	0.2100	1.2579

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| Variable storage data for node | B-F43
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft

Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	119.8200	0.0000	43.5600	0.0000	0.0010	0.0000
2	119.9075	0.0875	1181.5650	42.3498	0.0271	0.0010
3	119.9950	0.1750	2319.5700	192.7520	0.0532	0.0044
4	120.0825	0.2625	3457.5750	443.8514	0.0794	0.0102
5	120.1700	0.3500	4595.5800	794.9984	0.1055	0.0183
6	120.2575	0.4375	5733.5850	1245.9824	0.1316	0.0286
7	120.3450	0.5250	6871.5900	1796.7081	0.1578	0.0412
8	120.4325	0.6125	8009.5950	2447.1244	0.1839	0.0562
9	120.5200	0.7000	9147.6000	3197.2007	0.2100	0.0734
10	125.5000	5.6800	9147.6000	48752.2487	0.2100	1.1192

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| Variable storage data for node | B-F39
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	119.7700	0.0000	43.5600	0.0000	0.0010	0.0000
2	119.9200	0.1500	1181.5650	72.5996	0.0271	0.0017
3	120.0700	0.3000	2319.5700	330.4320	0.0532	0.0076
4	120.2200	0.4500	3457.5750	760.8881	0.0794	0.0175
5	120.3700	0.6000	4595.5800	1362.8544	0.1055	0.0313
6	120.5200	0.7500	5733.5850	2135.9698	0.1316	0.0490
7	120.6700	0.9000	6871.5900	3080.0710	0.1578	0.0707
8	120.8200	1.0500	8009.5950	4195.0704	0.1839	0.0963
9	120.9700	1.2000	9147.6000	5480.9155	0.2100	0.1258
10	125.1400	5.3700	9147.6000	43626.4075	0.2100	1.0015

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| Variable storage data for node | B-F37
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	119.5700	0.0000	43.5600	0.0000	0.0010	0.0000
2	119.5950	0.0250	1072.6650	11.1032	0.0246	0.0003
3	119.6200	0.0500	2101.7700	50.0693	0.0482	0.0011
4	119.6450	0.0750	3130.8750	115.0516	0.0719	0.0026
5	119.6700	0.1000	4159.9800	205.8831	0.0955	0.0047
6	119.6950	0.1250	5189.0850	322.5097	0.1191	0.0074
7	119.7200	0.1500	6218.1900	464.9068	0.1427	0.0107
8	119.7450	0.1750	7247.2950	633.0613	0.1664	0.0145
9	119.7700	0.2000	8276.4000	826.9652	0.1900	0.0190
10	125.7100	6.1400	8276.4000	49988.7812	0.1900	1.1476

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| Variable storage data for node | B-F35
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	119.4700	0.0000	43.5600	0.0000	0.0010	0.0000
2	119.5512	0.0813	2052.7650	64.8742	0.0471	0.0015
3	119.6325	0.1625	4061.9700	308.6876	0.0932	0.0071
4	119.7138	0.2438	6071.1750	717.6221	0.1394	0.0165
5	119.7950	0.3250	8080.3800	1290.5878	0.1855	0.0296
6	119.8762	0.4062	10089.5850	2027.2337	0.2316	0.0465
7	119.9575	0.4875	12098.7900	2927.4020	0.2777	0.0672
8	120.0387	0.5687	14107.9950	3991.0081	0.3239	0.0916
9	120.1200	0.6500	16117.2000	5218.0013	0.3700	0.1198
10	125.0900	5.6200	16117.2000	85320.4853	0.3700	1.9587

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| Variable storage data for node | B-F19
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	119.0600	0.0000	4.3560	0.0000	0.0001	0.0000
2	119.8025	0.7425	9.2565	4.9407	0.0002	0.0001
3	120.5450	1.4850	14.1570	13.5688	0.0003	0.0003
4	121.2875	2.2275	19.0575	25.8547	0.0004	0.0006
5	122.0300	2.9700	23.9580	41.7895	0.0006	0.0010
6	122.7725	3.7125	28.8585	61.3695	0.0007	0.0014
7	123.5150	4.4550	33.7590	84.5924	0.0008	0.0019
8	124.2575	5.1975	38.6595	111.4573	0.0009	0.0026
9	125.0000	5.9400	43.5600	141.9632	0.0010	0.0033
10	125.1250	6.0650	1018.2150	194.9789	0.0234	0.0045
11	125.2500	6.1900	1992.8700	379.7945	0.0457	0.0087
12	125.3750	6.3150	2967.5250	687.8047	0.0681	0.0158
13	125.5000	6.4400	3942.1800	1118.2220	0.0905	0.0257
14	125.6250	6.5650	4916.8350	1670.7900	0.1129	0.0384
15	125.7500	6.6900	5891.4900	2345.3929	0.1352	0.0538
16	125.8750	6.8150	6866.1450	3141.9683	0.1576	0.0721
17	126.0000	6.9400	7840.8000	4060.4788	0.1800	0.0932
18	126.0625	7.0025	7840.8000	4550.5288	0.1800	0.1045
19	126.1250	7.0650	7840.8000	5040.5788	0.1800	0.1157
20	126.1875	7.1275	7840.8000	5530.6288	0.1800	0.1270
21	126.2500	7.1900	7840.8000	6020.6788	0.1800	0.1382
22	126.3125	7.2525	7840.8000	6510.7288	0.1800	0.1495
23	126.3750	7.3150	7840.8000	7000.7788	0.1800	0.1607
24	126.4375	7.3775	7840.8000	7490.8288	0.1800	0.1720
25	126.5000	7.4400	7840.8000	7980.8788	0.1800	0.1832

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| Variable storage data for node | B-F17
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	118.8300	0.0000	4.3560	0.0000	0.0001	0.0000
2	119.6637	0.8337	9.2565	5.5479	0.0002	0.0001
3	120.4975	1.6675	14.1570	15.2363	0.0003	0.0003
4	121.3312	2.5012	19.0575	29.0321	0.0004	0.0007
5	122.1650	3.3350	23.9580	46.9253	0.0006	0.0011
6	122.9988	4.1688	28.8585	68.9115	0.0007	0.0016
7	123.8325	5.0025	33.7590	94.9885	0.0008	0.0022
8	124.6662	5.8362	38.6595	125.1549	0.0009	0.0029
9	125.5000	6.6700	43.5600	159.4098	0.0010	0.0037
10	125.5625	6.7325	1290.4650	192.1414	0.0296	0.0044
11	125.6250	6.7950	2537.3700	309.5865	0.0583	0.0071
12	125.6875	6.8575	3784.2750	505.8442	0.0869	0.0116
13	125.7500	6.9200	5031.1800	780.4039	0.1155	0.0179
14	125.8125	6.9825	6278.0850	1133.1003	0.1441	0.0260
15	125.8750	7.0450	7524.9900	1563.8585	0.1728	0.0359
16	125.9375	7.1075	8771.8950	2072.6385	0.2014	0.0476
17	126.0000	7.1700	10018.8000	2659.4163	0.2300	0.0611
18	126.0625	7.2325	10018.8000	3285.5913	0.2300	0.0754
19	126.1250	7.2950	10018.8000	3911.7663	0.2300	0.0898
20	126.1875	7.3575	10018.8000	4537.9413	0.2300	0.1042
21	126.2500	7.4200	10018.8000	5164.1163	0.2300	0.1186
22	126.3125	7.4825	10018.8000	5790.2913	0.2300	0.1329
23	126.3750	7.5450	10018.8000	6416.4663	0.2300	0.1473
24	126.4375	7.6075	10018.8000	7042.6413	0.2300	0.1617
25	126.5000	7.6700	10018.8000	7668.8163	0.2300	0.1761
26	126.5000	7.6700	10018.8000	7668.8163	0.2300	0.1761

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| Variable storage data for node | B-F15
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	118.6800	0.0000	4.3560	0.0000	0.0001	0.0000
2	118.7425	0.0625	602.7615	13.7158	0.0138	0.0003
3	118.8050	0.1250	1201.1670	69.0246	0.0276	0.0016
4	118.8675	0.1875	1799.5725	162.1698	0.0413	0.0037
5	118.9300	0.2500	2397.9780	292.8967	0.0551	0.0067
6	118.9925	0.3125	2996.3835	461.1237	0.0688	0.0106
7	119.0550	0.3750	3594.7890	666.8143	0.0825	0.0153
8	119.1175	0.4375	4193.1945	909.9489	0.0963	0.0209
9	119.1800	0.5000	4791.6000	1190.5159	0.1100	0.0273
10	126.9000	8.2200	4791.6000	38181.6679	0.1100	0.8765

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| Variable storage data for node | B-F13
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	118.5300	0.0000	4.3560	0.0000	0.0001	0.0000
2	119.3388	0.8087	9.2565	5.3815	0.0002	0.0001
3	120.1475	1.6175	14.1570	14.7795	0.0003	0.0003
4	120.9562	2.4263	19.0575	28.1616	0.0004	0.0006
5	121.7650	3.2350	23.9580	45.5182	0.0006	0.0010
6	122.5738	4.0438	28.8585	66.8452	0.0007	0.0015
7	123.3825	4.8525	33.7590	92.1403	0.0008	0.0021
8	124.1912	5.6612	38.6595	121.4021	0.0009	0.0028
9	125.0000	6.4700	43.5600	154.6299	0.0010	0.0035
10	125.0625	6.5325	1127.1150	183.6352	0.0259	0.0042
11	125.1250	6.5950	2210.6700	286.0579	0.0507	0.0066
12	125.1875	6.6575	3294.2250	456.9641	0.0756	0.0105
13	125.2500	6.7200	4377.7800	695.9132	0.1005	0.0160
14	125.3125	6.7825	5461.3350	1002.7621	0.1254	0.0230
15	125.3750	6.8450	6544.8900	1377.4463	0.1502	0.0316
16	125.4375	6.9075	7628.4450	1819.9309	0.1751	0.0418
17	125.5000	6.9700	8712.0000	2330.1952	0.2000	0.0535
18	125.5625	7.0325	8712.0000	2874.6952	0.2000	0.0660
19	125.6250	7.0950	8712.0000	3419.1952	0.2000	0.0785
20	125.6875	7.1575	8712.0000	3963.6952	0.2000	0.0910
21	125.7500	7.2200	8712.0000	4508.1952	0.2000	0.1035
22	125.8125	7.2825	8712.0000	5052.6952	0.2000	0.1160
23	125.8750	7.3450	8712.0000	5597.1952	0.2000	0.1285
24	125.9375	7.4075	8712.0000	6141.6952	0.2000	0.1410
25	126.0000	7.4700	8712.0000	6686.1952	0.2000	0.1535

==================================
| Variable storage data for node | B-F21
==================================

Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	123.0000	0.0000	4.3560	0.0000	0.0001	0.0000
2	123.3125	0.3125	2454.0615	266.8551	0.0563	0.0061
3	123.6250	0.6250	4903.7670	1394.6526	0.1126	0.0320
4	123.9375	0.9375	7353.4725	3296.9665	0.1688	0.0757
5	124.2500	1.2500	9803.1780	5968.5374	0.2251	0.1370
6	124.5625	1.5625	12252.8835	9407.6895	0.2813	0.2160
7	124.8750	1.8750	14702.5890	13613.6725	0.3375	0.3125
8	125.1875	2.1875	17152.2945	18586.0848	0.3938	0.4267
9	125.5000	2.5000	19602.0000	24324.6866	0.4500	0.5584
10	130.0000	7.0000	19602.0000	112533.6866	0.4500	2.5834

==================================
| Variable storage data for node | B-F23
==================================

Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	124.6500	0.0000	4.3560	0.0000	0.0001	0.0000
2	124.7125	0.0625	820.5615	18.4313	0.0188	0.0004
3	124.7750	0.1250	1636.7670	93.7696	0.0376	0.0022
4	124.8375	0.1875	2452.9725	220.7169	0.0563	0.0051
5	124.9000	0.2500	3269.1780	398.9246	0.0750	0.0092
6	124.9625	0.3125	4085.3835	628.2814	0.0938	0.0144
7	125.0250	0.3750	4901.5890	908.7374	0.1125	0.0209
8	125.0875	0.4375	5717.7945	1240.2660	0.1313	0.0285
9	125.1500	0.5000	6534.0000	1622.8510	0.1500	0.0373
10	130.0000	5.3500	6534.0000	33312.7510	0.1500	0.7648

==================================
| Variable storage data for node | D2
==================================

Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	122.5000	0.0000	4.3560	0.0000	0.0001	0.0000
2	122.6875	0.1875	766.1115	51.7647	0.0176	0.0012
3	122.8750	0.3750	1527.8670	262.7574	0.0351	0.0060
4	123.0625	0.5625	2289.6225	618.2479	0.0526	0.0142
5	123.2500	0.7500	3051.3780	1117.2604	0.0701	0.0256
6	123.4375	0.9375	3813.1335	1759.4834	0.0875	0.0404
7	123.6250	1.1250	4574.8890	2544.7774	0.1050	0.0584
8	123.8125	1.3125	5336.6445	3473.0675	0.1225	0.0797
9	124.0000	1.5000	6098.4000	4544.3092	0.1400	0.1043
10	126.0000	3.5000	6098.4000	16741.1092	0.1400	0.3843

==================================
| Variable storage data for node | D23
==================================

Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	114.8900	0.0000	4.3560	0.0000	0.0001	0.0000
2	114.9775	0.0875	548.3115	17.5449	0.0126	0.0004
3	115.0650	0.1750	1092.2670	87.9668	0.0251	0.0020
4	115.1525	0.2625	1636.2225	206.5395	0.0376	0.0047
5	115.2400	0.3500	2180.1780	372.9388	0.0501	0.0086
6	115.3275	0.4375	2724.1335	587.0611	0.0625	0.0135
7	115.4150	0.5250	3268.0890	848.8601	0.0750	0.0195
8	115.5025	0.6125	3812.0445	1158.3107	0.0875	0.0266
9	115.5900	0.7000	4356.0000	1515.3982	0.1000	0.0348
10	122.9900	8.1000	4356.0000	33749.7982	0.1000	0.7748

==================================
| Variable storage data for node | D35
==================================

Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	112.9000	0.0000	4.3560	0.0000	0.0001	0.0000
2	112.9625	0.0625	330.5115	7.7669	0.0076	0.0002
3	113.0250	0.1250	656.6670	38.0388	0.0151	0.0009
4	113.0875	0.1875	982.8225	88.9315	0.0226	0.0020
5	113.1500	0.2500	1308.9780	160.3072	0.0301	0.0037

6	113.2125	0.3125	1635.1335	252.1220	0.0375	0.0058
7	113.2750	0.3750	1961.2890	364.3558	0.0450	0.0084
8	113.3375	0.4375	2287.4445	496.9981	0.0525	0.0114
9	113.4000	0.5000	2613.6000	650.0426	0.0600	0.0149
10	123.5700	10.6700	2613.6000	27230.3546	0.0600	0.6251

==================================
| Variable storage data for node | D8
==================================

Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	118.4600	0.0000	4.3560	0.0000	0.0001	0.0000
2	118.4912	0.0313	493.8615	5.6729	0.0113	0.0001
3	118.5225	0.0625	983.3670	28.3199	0.0226	0.0007
4	118.5537	0.0938	1472.8725	66.4420	0.0338	0.0015
5	118.5850	0.1250	1962.3780	119.9352	0.0450	0.0028
6	118.6162	0.1562	2451.8835	188.7663	0.0563	0.0043
7	118.6475	0.1875	2941.3890	272.9202	0.0675	0.0063
8	118.6787	0.2188	3430.8945	372.3891	0.0788	0.0085
9	118.7100	0.2500	3920.4000	487.1681	0.0900	0.0112
10	123.7100	5.2500	3920.4000	20089.1681	0.0900	0.4612

==================================
| Variable storage data for node | D24
==================================

Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	117.1900	0.0000	4.3560	0.0000	0.0001	0.0000
2	117.2775	0.0875	548.3115	17.5449	0.0126	0.0004
3	117.3650	0.1750	1092.2670	87.9668	0.0251	0.0020
4	117.4525	0.2625	1636.2225	206.5395	0.0376	0.0047
5	117.5400	0.3500	2180.1780	372.9388	0.0501	0.0086
6	117.6275	0.4375	2724.1335	587.0611	0.0625	0.0135
7	117.7150	0.5250	3268.0890	848.8601	0.0750	0.0195
8	117.8025	0.6125	3812.0445	1158.3107	0.0875	0.0266
9	117.8900	0.7000	4356.0000	1515.3982	0.1000	0.0348
10	122.9900	5.8000	4356.0000	23730.9982	0.1000	0.5448

==
| Orifice Data |
==

Conduit Name	From Junction	To Junction	Type	Area (ft2)	Depth (ft)	Discharge Coefficient	Height Above Junction (ft)
rect-orif	Node458	B-F61	Rect Side	0.50	0.50	0.670	0.000

====> EQUIVALENT PIPE INFORMATION FOR ORIFICE 1
CONDUIT NAME..... rect-orif
Upstream node..... Node458
Downstream node..... B-F61
PIPE DIAMETER..... 0.50
PIPE LENGTH..... 500.00
MANNINGS ROUGHNESS..... 0.0037
INVERT ELEVATION AT UPSTREAM END..... 123.2600
INVERT ELEVATION AT DOWNSTREAM END... 123.2500

Note: For a Bottom-outlet orifice the invert elevation of the downstream node will be
adjusted to accomodate the equivalent conduit. Conduit grades are not affected.

ERROR !!! The Weir crest of weir underHWY6 is below the invert of Node: Node457

==
| Weir Data |
==

Weir Name	From Junction	To Junction	Type	Crest Height(ft)	Weir Top(ft)	Weir Length(ft)	Discharge Coefficient	Weir Power
underHWY6	B-F55	Node457	1	6.26	7.76	50.00	2.6700	1.5000
WEIR BF23	B-F23	B-F21	1	4.85	5.35	100.00	2.6700	1.5000

==
| FREE OUTFALL DATA (DATA GROUP I1) |
| BOUNDARY CONDITION ON DATA GROUP J1 |
==

Outfall at Junction....B-F65 has boundary condition number... 1
Outfall at Junction....E100-OUT has boundary condition number... 2
Outfall at Junction....E131-OUT has boundary condition number... 3
Outfall at Junction....Node457 has boundary condition number... 4
Outfall at Junction....D37 has boundary condition number... 5
Outfall at Junction....F28 has boundary condition number... 6
Outfall at Junction....A-M5B has boundary condition number... 7

===> Warning !! Outfall Junction B-F65 has two or more connecting conduits.

===> Warning !! Outfall Junction F28 has two or more connecting conduits.

==
| Weir Outfall Data |
| Boundary Condition on data group J1 |
==

Weir Outfall at Junction... Node457 has boundary condition number... 4

==
| INTERNAL CONNECTIVITY INFORMATION |
==

CONDUIT	JUNCTION	JUNCTION
rect-orif	Node458	B-F61
underHWY6	B-F55	Node457
WEIR BF23	B-F23	B-F21
FREE # 1	B-F65	BOUNDARY
FREE # 2	E100-OUT	BOUNDARY
FREE # 3	E131-OUT	BOUNDARY
FREE # 4	Node457	BOUNDARY
FREE # 5	D37	BOUNDARY
FREE # 6	F28	BOUNDARY
FREE # 7	A-M5B	BOUNDARY

==
| Boundary Condition Information |
| Data Groups J1-J4 |
==

BC NUMBER.. 1 has no control water surface.

```
*====================================*
|  Outlet: E100-OUT                  |
|  Downstream Rating Curve Information  |
|  for Boundary Condition =     2.   |
*====================================*

 No. Flow(cfs) Depth(ft)  No. Flow(cfs) Depth(ft)  No. Flow(cfs) Depth(ft)
 ---  -------- --------   ---  -------- ---------  ---  -------- ---------
   1      0.00     0.000    2    280.00     7.270    3    430.00     8.220
   4    500.00     8.570    5    710.00     9.350

*====================================*
|  Outlet: E131-OUT                  |
|  Downstream Rating Curve Information  |
|  for Boundary Condition =     3.   |
*====================================*

 No. Flow(cfs) Depth(ft)  No. Flow(cfs) Depth(ft)  No. Flow(cfs) Depth(ft)
 ---  -------- --------   ---  -------- ---------  ---  -------- ---------
   1      0.00     0.000    2    139.02     3.540    3    175.76     4.150
   4    200.71     4.850    5    298.05     6.520    6    337.72     7.090
   7    470.00     8.540
BC NUMBER..         4 has no control water surface.
BC NUMBER..         5 has no control water surface.
BC NUMBER..         6 has no control water surface.
BC NUMBER..         7 has no control water surface.

*================================================*
|             XP Note Field Summary              |
*================================================*


*======================================================*
|       Table E9 - JUNCTION SUMMARY STATISTICS         |
| The Maximum area is only the area of the node, it    |
| does not include the area of the surrounding conduits|
*======================================================*
```

Junction Name	Ground Elevation feet	Uppermost PipeCrown Elevation feet	Maximum Junction Elevation feet	Time of Occurence Hr.	Time of Occurence Min.	Feet of Surcharge at Max Elevation	Freeboard of node feet	Maximum Junction Area ft^2	Maximum Gutter Depth feet	Maximum Gutter Width feet	Maximum Gutter Velocity ft/s
A2	137.5900	135.8400	137.0876	15	56	1.2476	0.5024	12.5660	0.0000	0.0000	0.0000
A4	137.1400	135.7700	137.1353	15	56	1.3653	0.0047	12.5660	0.0000	0.0000	0.0000
A6	136.9700	135.6200	136.8236	15	57	1.2036	0.1464	12.5660	0.0000	0.0000	0.0000
A10	136.6700	135.4000	136.5825	15	56	1.1825	0.0875	12.5660	0.0000	0.0000	0.0000
A12	136.6700	135.2500	136.1835	15	57	0.9335	0.4865	12.5660	0.0000	0.0000	0.0000
A14	136.2900	135.0800	135.5763	16	16	0.4963	0.7137	12.5660	0.0000	0.0000	0.0000
C4	158.5000	154.0400	153.1660	16	0	0.0000	5.3340	12.5660	0.0000	0.0000	0.0000
C6	155.9900	150.7800	150.0936	16	0	0.0000	5.8964	12.5660	0.0000	0.0000	0.0000
C8	151.6700	147.5200	138.2570	16	1	0.0000	13.4130	12.5660	0.0000	0.0000	0.0000
C1	160.2100	156.4900	155.4622	16	0	0.0000	4.7478	12.5660	0.0000	0.0000	0.0000
C3	158.9200	154.0400	153.1754	16	0	0.0000	5.7446	12.5660	0.0000	0.0000	0.0000
C5	155.9900	150.7800	150.0646	16	1	0.0000	5.9254	12.5660	0.0000	0.0000	0.0000
C7	149.1700	145.0000	140.7771	16	0	0.0000	8.3929	12.5660	0.0000	0.0000	0.0000
B10	126.9400	126.6900	125.8575	17	43	0.0000	1.0825	12.5660	0.0000	0.0000	0.0000
B12	126.4400	126.4400	125.8006	17	46	0.0000	0.6394	12.5660	0.0000	0.0000	0.0000
B14	126.7500	126.7500	125.8042	17	46	0.0000	0.9458	12.5660	0.0000	0.0000	0.0000
B16	126.7800	126.5300	125.7189	17	46	0.0000	1.0611	12.5660	0.0000	0.0000	0.0000
B18	126.4000	126.1500	125.6530	16	52	0.0000	0.7470	12.5660	0.0000	0.0000	0.0000
B20	126.2800	126.0300	125.6405	16	52	0.0000	0.6395	12.5660	0.0000	0.0000	0.0000
B22	126.0000	125.4900	125.6299	16	50	0.1399	0.3701	12.5660	0.0000	0.0000	0.0000
B24	125.7000	124.9700	125.6292	16	50	0.6592	0.0708	12.5660	0.0000	0.0000	0.0000
B26	125.6000	125.3500	125.6280	16	49	0.2780	0.0000	5141.9995	0.0000	0.0000	0.0000
B28	125.7700	125.5200	125.6257	16	48	0.1057	0.1443	12.5660	0.0000	0.0000	0.0000
B30	125.5000	125.2500	125.6234	16	48	0.3734	0.0000	1078.0058	0.0000	0.0000	0.0000
B36	127.5000	127.5000	125.5989	16	48	0.0000	1.9011	12.5660	0.0000	0.0000	0.0000
B38	127.5000	122.2400	125.6797	16	49	3.4397	1.8203	12.5660	0.0000	0.0000	0.0000
B40	128.0000	122.5300	125.6788	16	49	3.1488	2.3212	12.5660	0.0000	0.0000	0.0000
B-OUT	126.9800	126.3100	125.2866	16	48	0.0000	1.6934	12.5660	0.0000	0.0000	0.0000
B-M8	127.1700	122.8500	125.8026	17	51	2.9526	1.3674	12.5660	0.0000	0.0000	0.0000
A-F10	134.3000	134.3000	133.9424	16	59	0.0000	0.3576	12.5660	0.0000	0.0000	0.0000
A-F12	134.2000	133.9000	133.8935	17	1	0.0000	0.3065	12.5660	0.0000	0.0000	0.0000
A16	137.0000	136.5000	135.3781	16	22	0.0000	1.6219	12.5660	0.0000	0.0000	0.0000
A-M8	136.5700	136.5500	135.6136	16	36	0.0000	0.9564	12.5660	0.0000	0.0000	0.0000
A-M6	137.3500	137.3500	135.8731	16	35	0.0000	1.4769	12.5660	0.0000	0.0000	0.0000
A-M4	139.1600	139.1600	137.0593	16	10	0.0000	2.1007	12.5660	0.0000	0.0000	0.0000
A-M2	137.5000	137.3500	137.3861	16	6	0.0361	0.1139	12.5660	0.0000	0.0000	0.0000
A-F4	135.4100	135.4100	134.9803	16	27	0.0000	0.4297	12.5660	0.0000	0.0000	0.0000
A-F6	135.2500	135.2500	134.8739	16	28	0.0000	0.3761	12.5660	0.0000	0.0000	0.0000
A-F8	134.3000	133.5000	133.9990	16	56	0.4990	0.3010	12.5660	0.0000	0.0000	0.0000
A-F14	134.0000	133.3800	133.8284	17	3	0.4484	0.1716	12.5660	0.0000	0.0000	0.0000
A-F16	134.4000	133.4800	133.7570	17	5	0.2770	0.6430	12.5660	0.0000	0.0000	0.0000
A-F18	134.0000	133.4900	133.6668	17	5	0.1768	0.3332	12.5660	0.0000	0.0000	0.0000
A-F20	133.5000	133.4200	133.5782	17	5	0.1582	0.0000	5406.5029	0.0000	0.0000	0.0000
A-F22	134.0000	132.6400	133.4728	17	4	0.8328	0.5272	12.5660	0.0000	0.0000	0.0000
A-F24	133.3000	132.2600	133.3701	17	2	1.1101	0.0000	5363.0199	0.0000	0.0000	0.0000
A-F26	134.5000	134.5000	133.3079	17	0	0.0000	1.1921	12.5660	0.0000	0.0000	0.0000
A-F28	133.0000	132.9800	132.6749	17	4	0.0000	0.3251	12.5660	0.0000	0.0000	0.0000
A-F30	132.5000	132.0500	132.2060	17	5	0.1560	0.2940	12.5660	0.0000	0.0000	0.0000
A-F32	132.1000	131.0000	131.3517	17	6	0.3517	0.7483	12.5660	0.0000	0.0000	0.0000
A-F34	132.0000	131.7500	130.8346	17	6	0.0000	1.1654	12.5660	0.0000	0.0000	0.0000
A-OUT	146.4900	146.1700	129.8836	16	54	0.0000	16.6064	12.5660	0.0000	0.0000	0.0000
A-F36	130.0200	130.0200	129.9322	16	59	0.0000	0.0878	12.5660	0.0000	0.0000	0.0000
A-F38	130.3400	130.3400	129.9440	17	1	0.0000	0.3960	12.5660	0.0000	0.0000	0.0000
A-F40	130.0000	129.8300	129.9856	17	1	0.1556	0.0144	12.5660	0.0000	0.0000	0.0000
A-M12	135.0500	134.9800	134.5690	16	43	0.0000	0.4810	12.5660	0.0000	0.0000	0.0000
A-M14	134.9000	134.9000	134.4680	16	44	0.0000	0.4320	12.5660	0.0000	0.0000	0.0000
A-M16	134.5000	134.5000	134.2808	16	45	0.0000	0.2192	12.5660	0.0000	0.0000	0.0000
A-M18	134.0000	133.6500	133.7133	16	43	0.0633	0.2867	12.5660	0.0000	0.0000	0.0000
A-M20	132.6500	130.3300	132.5458	17	45	2.2158	0.1042	12.5660	0.0000	0.0000	0.0000
A-M26	132.1000	127.7000	130.4643	16	38	2.7643	1.6357	12.5660	0.0000	0.0000	0.0000
A-M28	131.9000	127.8500	130.7348	16	36	2.8848	1.1652	12.5660	0.0000	0.0000	0.0000
A-M30	131.7800	128.0500	131.0272	16	23	2.9772	0.7528	12.5660	0.0000	0.0000	0.0000
A-M32	131.5000	127.4000	131.0063	16	24	3.6063	0.4937	12.5660	0.0000	0.0000	0.0000
A-M3	141.8500	141.8500	139.4339	16	6	0.0000	2.4161	12.5660	0.0000	0.0000	0.0000
A-M5	138.3000	138.2500	136.3829	16	19	0.0000	1.9171	12.5660	0.0000	0.0000	0.0000
A-M7	137.3000	136.9500	136.0949	16	30	0.0000	1.2051	12.5660	0.0000	0.0000	0.0000
A-M9	140.5000	140.5000	136.0000	0	0	0.0000	4.5000	12.5660	0.0000	0.0000	0.0000
A-M11	136.0000	136.0000	135.6550	16	31	0.0000	0.3450	12.5660	0.0000	0.0000	0.0000
A-M13	136.1700	136.1700	135.6545	16	30	0.0000	0.5155	12.5660	0.0000	0.0000	0.0000
A-M15	135.4200	135.2200	135.1065	16	53	0.0000	0.3135	12.5660	0.0000	0.0000	0.0000
A-M17	134.9700	134.5600	134.9737	16	55	0.4137	0.0000	5018.3323	0.0000	0.0000	0.0000
A-M19	135.0000	133.3400	134.7075	16	51	1.3675	0.2925	12.5660	0.0000	0.0000	0.0000
A-M21	135.5000	135.5000	134.7082	16	51	0.0000	0.7918	12.5660	0.0000	0.0000	0.0000
A-M23	135.1500	135.1500	134.1500	0	0	0.0000	1.0000	12.5660	0.0000	0.0000	0.0000
A-M25	135.0200	135.0200	133.9131	16	21	0.0000	1.1069	12.5660	0.0000	0.0000	0.0000
A-M27	133.7300	132.2000	130.7935	16	51	0.0000	2.9305	12.5660	0.0000	0.0000	0.0000
A-M24	133.2500	130.9600	131.8641	17	45	1.9041	1.3859	12.5660	0.0000	0.0000	0.0000
A8	137.0500	135.4800	136.7181	15	56	1.2381	0.3319	12.5660	0.0000	0.0000	0.0000
C2	160.2100	156.4900	155.4588	16	0	0.0000	4.7512	12.5660	0.0000	0.0000	0.0000
A-M31	131.0000	127.8500	131.0722	16	25	3.2222	0.0000	5374.4551	0.0000	0.0000	0.0000
A-M33	131.0000	130.5000	130.4521	16	16	0.0000	0.5479	12.5660	0.0000	0.0000	0.0000
A11	131.0000	130.1000	129.9969	16	57	0.0000	1.0031	12.5660	0.0000	0.0000	0.0000
A-F35	131.0000	127.1000	131.1541	16	30	4.0541	0.0000	5832.9902	0.0000	0.0000	0.0000
B4	128.5200	128.5200	126.6032	17	43	0.0000	1.9168	12.5660	0.0000	0.0000	0.0000

B6	127.9900	127.9900	126.3424	17	50	0.0000	1.6476	12.5660	0.0000	0.0000	0.0000
B8	127.4700	127.2200	126.0834	17	43	0.0000	1.3866	12.5660	0.0000	0.0000	0.0000
B32	126.5000	125.8300	125.6908	16	47	0.0000	0.8092	12.5660	0.0000	0.0000	0.0000
B-F2	126.0000	125.6500	125.7071	16	50	0.0571	0.2929	12.5660	0.0000	0.0000	0.0000
B42	127.0000	123.6400	126.7719	16	30	3.1319	0.2281	12.5660	0.0000	0.0000	0.0000
B-M10	126.1900	122.3500	126.2334	17	43	3.8834	0.0000	375.9341	0.0000	0.0000	0.0000
B-M12	126.7600	121.9000	126.8150	17	40	4.9150	0.0000	472.5456	0.0000	0.0000	0.0000
B34	127.0000	126.9000	125.7530	17	43	0.0000	1.2470	12.5660	0.0000	0.0000	0.0000
B-M9	128.2000	122.7100	126.3169	16	37	3.6069	1.8831	11761.200	0.0000	0.0000	0.0000
B-M52	130.7600	122.5500	126.3562	16	39	3.8062	4.4038	12.5660	0.0000	0.0000	0.0000
B-F5	128.6000	128.6000	127.9873	16	39	0.0000	0.6127	12.5660	0.0000	0.0000	0.0000
B-F9	127.0000	126.7200	126.2521	16	46	0.0000	0.7479	12.5660	0.0000	0.0000	0.0000
B-F7	128.0000	127.9800	127.2402	16	36	0.0000	0.7598	12.5660	0.0000	0.0000	0.0000
A-M35	138.0300	127.2800	130.1139	16	23	2.8339	7.9161	12.5660	0.0000	0.0000	0.0000
B-M18	133.8700	124.1100	126.8650	16	33	2.7550	7.0050	12.5660	0.0000	0.0000	0.0000
B-M14	128.0300	123.2400	126.5777	16	36	3.3377	1.4523	3484.8000	0.0000	0.0000	0.0000
B-F1	129.5000	125.3400	129.5079	16	49	4.1679	0.0000	5039.9260	0.0000	0.0000	0.0000
B-F3	129.5000	128.8800	129.1370	16	56	0.2570	0.3630	10890.000	0.0000	0.0000	0.0000
B-F11	126.0000	125.3300	125.6990	16	46	0.3690	0.3010	6534.0000	0.0000	0.0000	0.0000
B-M16	127.4500	123.4600	126.6791	16	34	3.2191	0.7709	12.5660	0.0000	0.0000	0.0000
B2	128.1000	125.1000	128.8396	16	42	3.7396	0.0000	4791.6000	0.0000	0.0000	0.0000
B-M2	135.2300	125.0900	130.9091	16	30	5.8191	4.3209	12.5660	0.0000	0.0000	0.0000
B-M4	132.8700	124.4800	128.9920	16	42	4.5120	3.8780	12.5660	0.0000	0.0000	0.0000
B-M6	131.7100	124.6900	128.8527	16	42	4.1627	2.8573	12.5660	0.0000	0.0000	0.0000
B-M1	132.0800	125.8000	129.1997	16	42	3.3997	2.8803	12.5660	0.0000	0.0000	0.0000
B-M3	130.0000	126.0000	129.2731	16	43	3.2731	0.7269	12.5660	0.0000	0.0000	0.0000
B-M11	127.5000	127.5000	127.0395	16	22	0.0000	0.4605	12.5660	0.0000	0.0000	0.0000
A-M36	132.1500	126.0000	130.5354	16	35	4.5354	1.6146	12.5660	0.0000	0.0000	0.0000
A-M38	132.1000	127.6700	130.4783	16	39	2.8083	1.6217	12.5660	0.0000	0.0000	0.0000
A-M37	134.4000	127.1500	130.7819	17	2	3.6319	3.6181	12.5660	0.0000	0.0000	0.0000
A-M41	137.3100	127.6900	131.0723	16	26	3.3823	6.2377	12.5660	0.0000	0.0000	0.0000
A-M39	135.4500	128.1500	130.8117	16	44	2.6617	4.6383	12.5660	0.0000	0.0000	0.0000
B-F73	126.5000	126.0000	126.9283	16	54	0.9283	0.0000	5662.8000	0.0000	0.0000	0.0000
B-F75	126.5000	123.1300	126.9626	16	56	3.8326	0.0000	6534.0000	0.0000	0.0000	0.0000
B-F77	127.0000	122.2500	127.1427	17	4	4.8927	0.0000	19602.000	0.0000	0.0000	0.0000
B-F79	126.5000	123.1600	126.9672	16	57	3.8072	0.0000	7977.2219	0.0000	0.0000	0.0000
B-F81	126.5000	123.2200	126.9770	16	57	3.7570	0.0000	8056.2936	0.0000	0.0000	0.0000
B-F20	130.5000	130.0000	129.9207	17	0	0.0000	0.5793	2178.0000	0.0000	0.0000	0.0000
B-F22	130.0000	126.0800	129.8531	16	53	3.7731	0.1469	12.5660	0.0000	0.0000	0.0000
B-F71	126.0000	123.3800	125.8617	16	47	2.4817	0.1383	7840.8000	0.0000	0.0000	0.0000
B-M26	128.0000	123.9500	128.6833	16	42	4.7333	0.0000	12.5660	0.0000	0.0000	0.0000
B-M20	134.5400	124.3100	128.8124	16	37	4.5024	5.7276	12.5660	0.0000	0.0000	0.0000
B-M28	129.3000	123.4600	128.2387	16	42	4.7787	1.0613	12.5660	0.0000	0.0000	0.0000
B-M30	127.3400	122.8400	127.6577	16	42	4.8177	0.0000	12.5660	0.0000	0.0000	0.0000
B-M22	131.2300	123.0100	127.7526	16	35	4.7426	3.4774	12.5660	0.0000	0.0000	0.0000
B-M32	128.7000	122.2300	126.8914	16	42	4.6614	1.8086	12.5660	0.0000	0.0000	0.0000
B-M34	127.2000	121.5200	126.0007	16	40	4.4807	1.1993	12.5660	0.0000	0.0000	0.0000
B-M24	129.6300	121.7200	126.2242	16	31	4.5042	3.4058	12.5660	0.0000	0.0000	0.0000
B-M38	130.0700	122.0500	125.7661	16	48	3.7161	4.3039	12.5660	0.0000	0.0000	0.0000
B-M36	127.9000	121.8500	125.8314	16	45	3.9814	2.0686	12.5660	0.0000	0.0000	0.0000
B-M40	126.9000	121.7900	125.8939	16	28	4.1039	1.0061	12.5660	0.0000	0.0000	0.0000
B-M42	127.1800	121.7500	125.8171	17	5	4.0671	1.3629	12.5660	0.0000	0.0000	0.0000
B-F65	128.9100	128.9100	125.5000	15	20	0.0000	3.4100	12.5660	0.0000	0.0000	0.0000
B-F4	126.0000	126.0000	125.8786	16	52	0.0000	0.1214	12.5660	0.0000	0.0000	0.0000
B-M50	128.5000	122.3000	126.2229	16	31	3.9229	2.2771	12.5660	0.0000	0.0000	0.0000
B-M48	127.8600	121.3800	125.9021	16	53	4.5221	1.9579	12.5660	0.0000	0.0000	0.0000
B-M45	128.0000	124.1800	126.9900	16	31	2.8100	1.0100	12.5660	0.0000	0.0000	0.0000
B-M46	127.5000	124.0600	126.9893	16	31	2.9293	0.5107	12.5660	0.0000	0.0000	0.0000
B-M44	127.5000	123.7200	126.9803	16	31	3.2603	0.5197	12.5660	0.0000	0.0000	0.0000
B-M56	140.8000	123.5700	126.9640	16	32	3.3940	13.8360	12.5660	0.0000	0.0000	0.0000
B-M54	140.8000	123.9200	126.9480	16	33	3.0280	13.8520	12.5660	0.0000	0.0000	0.0000
B-M43	127.5000	123.8800	126.9813	16	31	3.1013	0.5187	12.5660	0.0000	0.0000	0.0000
B44	125.8400	123.4600	126.9760	16	33	3.5160	0.0000	4356.0000	0.0000	0.0000	0.0000
B-F63	128.9100	128.9100	126.6418	17	7	0.0000	2.2682	52272.000	0.0000	0.0000	0.0000
B-F61	128.5000	122.6200	127.0071	16	15	4.3871	1.4929	12.5660	0.0000	0.0000	0.0000
B-F59	128.0000	122.5100	127.0161	16	15	4.5061	0.9839	12.5660	0.0000	0.0000	0.0000
B-F57	127.9000	122.3400	126.9305	16	15	4.5905	0.9695	12.5660	0.0000	0.0000	0.0000
B-F55	125.5000	122.2400	126.8829	16	19	4.6429	0.0000	8694.1441	0.0000	0.0000	0.0000
B-F53	125.8000	122.6200	127.3335	16	43	4.7135	0.0000	6098.4000	0.0000	0.0000	0.0000
B-F51	126.0000	122.4100	127.3405	16	43	4.9305	0.0000	9147.6000	0.0000	0.0000	0.0000
B-F43	125.5000	122.3200	127.3310	16	47	5.0110	0.0000	9147.6000	0.0000	0.0000	0.0000
B-F39	125.1400	122.2700	127.3235	16	50	5.0535	0.0000	9147.6000	0.0000	0.0000	0.0000
B-F37	125.7100	122.5700	127.2682	17	59	4.6982	0.0000	8276.4000	0.0000	0.0000	0.0000
B-F35	125.0900	122.4700	127.2462	17	2	4.7762	0.0000	16117.200	0.0000	0.0000	0.0000
B-F33	125.5400	122.3400	127.1928	17	5	4.8528	0.0000	5258.3760	0.0000	0.0000	0.0000
B-F19	126.5000	123.0600	126.9471	16	55	3.8871	0.0000	7840.8000	0.0000	0.0000	0.0000
B-F17	126.5000	122.8300	126.8690	16	52	4.0390	0.0000	10018.800	0.0000	0.0000	0.0000
B-F15	126.9000	122.6800	126.5638	16	50	3.8838	0.3362	4791.6000	0.0000	0.0000	0.0000
B-F13	126.0000	122.5300	126.2350	16	48	3.7050	0.0000	8712.0000	0.0000	0.0000	0.0000
B-F45	136.3200	130.5400	129.7088	16	0	0.0000	6.6112	12.5660	0.0000	0.0000	0.0000
B-F41	131.4500	130.1900	127.3287	16	49	0.0000	4.1213	12.5660	0.0000	0.0000	0.0000
B-F49	138.9100	131.3400	130.2386	16	0	0.0000	8.2714	12.5660	0.0000	0.0000	0.0000
B-F47	133.7700	131.2400	127.3636	16	42	0.0000	6.4064	12.5660	0.0000	0.0000	0.0000
B-F67	125.1000	122.3500	126.3291	16	52	3.9791	0.0000	12.5660	0.0000	0.0000	0.0000
B-F21	130.0000	125.5000	129.9463	16	57	4.4463	0.0537	19602.000	0.0000	0.0000	0.0000
B-F23	130.0000	128.8000	129.9511	16	57	1.1511	0.0489	12.5660	0.0000	0.0000	0.0000
B-F25	130.5000	125.8800	129.7518	16	52	3.8718	0.7482	12.5660	0.0000	0.0000	0.0000
B-F27	130.2900	125.6400	129.4929	16	53	3.8529	0.7971	12.5660	0.0000	0.0000	0.0000
B-F29	145.5000	125.4600	129.4382	16	52	3.9782	16.0618	12.5660	0.0000	0.0000	0.0000
B-F31	143.4000	125.2500	129.3591	16	44	4.1091	14.0409	12.5660	0.0000	0.0000	0.0000
E100-OUT	146.4900	145.6200	128.6033	16	54	0.0000	17.8867	12.5660	0.0000	0.0000	0.0000
E131-OUT	127.5000	127.5000	125.2075	16	48	0.0000	2.2925	12.5660	0.0000	0.0000	0.0000
Node457	128.0000	126.5000	126.5000	0	0	0.0000	1.5000	12.5660	0.0000	0.0000	0.0000
Node458	128.9100	128.3600	126.6419	17	7	0.0000	2.2681	12.5660	0.0000	0.0000	0.0000
D2	126.0000	124.0000	124.7746	16	30	0.7746	1.2254	6098.4000	0.0000	0.0000	0.0000
D1	125.5000	123.5100	124.2742	16	15	0.7642	1.2258	12.5660	0.0000	0.0000	0.0000
D3	124.8400	121.7600	124.1031	16	15	2.3431	0.7369	12.5660	0.0000	0.0000	0.0000
D5	124.2600	121.6000	123.8483	16	15	2.2483	0.4117	12.5660	0.0000	0.0000	0.0000
D7	123.7100	120.8300	123.5980	16	0	2.7680	0.1120	12.5660	0.0000	0.0000	0.0000
D9	123.5200	120.9200	123.3868	16	0	2.4668	0.1332	12.5660	0.0000	0.0000	0.0000
D11	123.4500	120.8900	123.3444	16	0	2.4544	0.1056	12.5660	0.0000	0.0000	0.0000
D13	123.7300	120.8300	123.2325	16	0	2.4025	0.4975	12.5660	0.0000	0.0000	0.0000
D15	124.6300	121.4700	123.1167	16	0	1.6467	1.5133	12.5660	0.0000	0.0000	0.0000
D17	124.6300	121.4700	122.8410	16	0	1.3710	1.7890	12.5660	0.0000	0.0000	0.0000
D19	123.4900	120.3300	122.7091	16	0	2.3791	0.7809	12.5660	0.0000	0.0000	0.0000
D21	123.4000	119.9500	122.5638	16	0	2.6138	0.8362	12.5660	0.0000	0.0000	0.0000
D23	122.9900	119.8900	122.4380	16	0	2.5480	0.5520	12.5660	0.0000	0.0000	0.0000
D25	122.8300	119.7400	122.0680	16	0	2.3280	0.7620	12.5660	0.0000	0.0000	0.0000
D27	122.7800	119.5600	121.5584	16	0	1.9984	1.2216	12.5660	0.0000	0.0000	0.0000
D29	122.6500	119.3700	120.9479	16	0	1.5779	1.7021	12.5660	0.0000	0.0000	0.0000
D31	122.4300	119.2700	120.6217	16	0	1.3517	1.8083	12.5660	0.0000	0.0000	0.0000
D33	122.7100	119.0700	120.1673	15	58	1.0973	2.5427	12.5660	0.0000	0.0000	0.0000
D35	123.5700	118.9000	119.3616	15	58	0.4616	4.2084	12.5660	0.0000	0.0000	0.0000
D4	125.1700	121.8700	124.2767	16	15	2.4067	0.8933	12.5660	0.0000	0.0000	0.0000
D6	124.5900	121.2900	123.9555	16	15	2.6655	0.6345	12.5660	0.0000	0.0000	0.0000
D8	123.7100	120.4600	123.6717	16	0	3.2117	0.0383	12.5660	0.0000	0.0000	0.0000
D10	123.8500	120.5500	123.4772	16	0	2.9272	0.3728	12.5660	0.0000	0.0000	0.0000
D12	123.4500	120.1500	123.4500	16	0	3.3000	0.0000	12.5660	0.0000	0.0000	0.0000
D14	124.0600	120.7600	123.3520	16	0	2.5920	0.7080	12.5660	0.0000	0.0000	0.0000
D16	124.9600	121.6600	123.3006	16	0	1.6406	1.6594	12.5660	0.0000	0.0000	0.0000
D18	124.9600	121.6600	123.1484	16	0	1.4884	1.8116	12.5660	0.0000	0.0000	0.0000
D20	123.8200	120.5200	122.9024	16	0	2.3824	0.9176	12.5660	0.0000	0.0000	0.0000
D22	123.4000	120.1000	122.7173	16	0	2.6173	0.6827	12.5660	0.0000	0.0000	0.0000
D24	122.9900	119.6900	122.5214	16	0	2.8314	0.4686	12.5660	0.0000	0.0000	0.0000
D26	123.1600	119.8600	122.3756	16	0	2.5156	0.7844	12.5660	0.0000	0.0000	0.0000
D28	123.1100	119.8100	121.9368	16	0	2.1268	1.1732	12.5660	0.0000	0.0000	0.0000
D30	122.9800	119.6800	121.0653	16	0	1.3853	1.9147	12.5660	0.0000	0.0000	0.0000
D32	122.4300	119.1300	120.6883	16	0	1.5583	1.7417	12.5660	0.0000	0.0000	0.0000

D34	123.0400	119.7900	120.0749	16	0	0.2849	2.9651	12.5660	0.0000	0.0000	0.0000
D38	123.5000	122.0000	121.0784	16	0	0.0000	2.4216	12.5660	0.0000	0.0000	0.0000
D36	123.5700	121.0000	119.7633	15	59	0.0000	3.8067	12.5660	0.0000	0.0000	0.0000
D37	124.2100	118.8500	118.8500	15	58	0.0000	5.3600	12.5660	0.0000	0.0000	0.0000
F2	126.3000	122.5200	121.3670	16	0	0.0000	4.9330	12.5660	0.0000	0.0000	0.0000
F4	125.6000	122.5200	121.3349	16	0	0.0000	4.2651	12.5660	0.0000	0.0000	0.0000
F10	126.8500	123.4100	121.2819	16	1	0.0000	5.5681	12.5660	0.0000	0.0000	0.0000
F12	126.7700	121.8800	121.1855	16	1	0.0000	5.5845	12.5660	0.0000	0.0000	0.0000
F14	127.1000	122.0000	121.1746	16	1	0.0000	5.9254	12.5660	0.0000	0.0000	0.0000
F16	126.2800	120.5200	121.0352	16	1	0.5152	5.2448	12.5660	0.0000	0.0000	0.0000
F18	125.5900	120.4200	120.8068	16	1	0.3868	4.7832	12.5660	0.0000	0.0000	0.0000
F20	121.7300	120.4100	120.7810	16	1	0.3710	0.9490	12.5660	0.0000	0.0000	0.0000
F22	121.7300	120.3900	120.6669	16	1	0.2769	1.0631	12.5660	0.0000	0.0000	0.0000
F24	126.2600	120.3300	120.5328	16	1	0.2028	5.7272	12.5660	0.0000	0.0000	0.0000
F26	126.9700	123.4800	120.3929	16	1	0.0000	6.5771	12.5660	0.0000	0.0000	0.0000
F6	131.6200	125.5700	124.8702	16	0	0.0000	6.7498	12.5660	0.0000	0.0000	0.0000
F8	129.2100	125.4700	122.8538	16	0	0.0000	6.3562	12.5660	0.0000	0.0000	0.0000
F1	127.4000	124.5700	124.8780	16	29	0.3080	2.5220	12.5660	0.0000	0.0000	0.0000
F3	127.0000	124.0000	122.2977	16	15	0.0000	4.7023	12.5660	0.0000	0.0000	0.0000
F9	126.6400	123.6600	121.3275	16	15	0.0000	5.3125	12.5660	0.0000	0.0000	0.0000
F11	124.0000	123.3300	121.1243	16	15	0.0000	2.8757	12.5660	0.0000	0.0000	0.0000
F5	131.6200	125.8100	125.1102	16	0	0.0000	6.5098	12.5660	0.0000	0.0000	0.0000
F7	129.2100	125.7100	123.0972	16	0	0.0000	6.1128	12.5660	0.0000	0.0000	0.0000
F13	126.5100	123.0100	121.7715	16	15	0.0000	4.7385	12.5660	0.0000	0.0000	0.0000
F15	125.8200	122.3200	121.4578	16	15	0.0000	4.3622	12.5660	0.0000	0.0000	0.0000
F17	126.4900	122.9900	121.5506	16	15	0.0000	4.9394	12.5660	0.0000	0.0000	0.0000
F19	127.1900	123.6900	122.6124	16	15	0.0000	4.5776	12.5660	0.0000	0.0000	0.0000
F21	127.0700	123.5700	122.3048	16	15	0.0000	4.7652	12.5660	0.0000	0.0000	0.0000
F28	127.0700	123.3600	120.1900	15	54	0.0000	6.8800	12.5660	0.0000	0.0000	0.0000
A-M5B	139.5000	137.1000	136.3768	16	19	0.0000	3.1232	12.5660	0.0000	0.0000	0.0000

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| Time History of Flow and Velocity |
| Q(cfs), Vel(ft/s), Total(cubic feet) |
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Conduit:E131

Hr:Mn:Sc	Flow	Velocity	X-Area	H-Radius	Up HGL	Down HGL	Up Node	Down Node	Volume
0 0 5	0.0000	0.0000	1.0000E-05	1.0000E-05	117.8	116.7	117.8	116.7	0.0000
0 41 45	0.0000	0.0000	1.0000E-05	1.0000E-05	117.8	116.7	117.8	116.7	0.0000
1 23 25	0.0000	0.0000	1.0000E-05	1.0000E-05	117.8	116.7	117.8	116.7	0.0000
2 5 5	0.0000	0.0000	1.0000E-05	1.0000E-05	117.8	116.7	117.8	116.7	0.0000
2 46 45	0.0000	0.0000	1.0000E-05	1.0000E-05	117.8	116.7	117.8	116.7	0.0000
3 28 25	0.0000	0.0000	1.0000E-05	1.0000E-05	117.8	116.7	117.8	116.7	0.0000
4 10 5	0.0000	0.0000	1.0000E-05	1.0000E-05	117.8	116.7	117.8	116.7	0.0000
4 51 45	0.0000	0.0000	1.0000E-05	1.0000E-05	117.8	116.7	117.8	116.7	0.0000
5 33 25	0.0000	0.0000	1.0000E-05	1.0000E-05	117.8	116.7	117.8	116.7	0.0000
6 15 5	0.0000	0.0000	1.0000E-05	1.0000E-05	117.8	116.7	117.8	116.7	0.0000
6 56 45	0.0000	0.0000	1.0000E-05	1.0000E-05	117.8	116.7	117.8	116.7	0.0000
7 38 25	0.0000	0.0000	1.0000E-05	1.0000E-05	117.8	116.7	117.8	116.7	0.0000
8 20 5	0.0000	0.0000	1.0000E-05	1.0000E-05	117.8	116.7	117.8	116.7	0.0000
9 1 45	0.0000	0.0000	1.0000E-05	1.0000E-05	117.8	116.7	117.8	116.7	0.0000
9 43 25	0.0000	0.0000	1.0000E-05	1.0000E-05	117.8	116.7	117.8	116.7	0.0000
10 25 5	0.0000	0.0000	1.0000E-05	1.0000E-05	117.8	116.7	117.8	116.7	0.0000
11 6 45	0.0000	0.0000	1.0000E-05	1.0000E-05	117.8	116.7	117.8	116.7	0.0000
11 48 25	0.0000	0.0000	1.0000E-05	1.0000E-05	117.8	116.7	117.8	116.7	0.0000
12 30 5	0.0000	0.0000	1.0000E-05	1.0000E-05	117.8	116.7	117.8	116.7	0.0000
13 11 45	0.0000	0.0000	1.0000E-05	1.0000E-05	117.8	116.7	117.8	116.7	0.0000
13 53 25	0.0000	0.0000	0.3491	3.3015E-02	117.8	117.3	117.8	117.3	310.0
14 35 5	-11.17	-0.6367	17.54	0.9128	118.1	118.4	118.1	118.4	3827.
15 16 45	-63.81	-1.233	51.76	1.730	119.5	119.9	119.5	119.9	1.6428E+04
15 58 25	-265.1	-1.170	226.6	3.778	123.8	123.9	123.8	123.9	9.3837E+04
16 40 5	-360.1	-1.077	334.3	3.705	125.2	125.3	125.2	125.3	1.3787E+05
17 21 45	-332.9	-1.083	307.5	3.539	124.9	125.0	124.9	125.0	1.2699E+05
18 3 25	-263.6	-1.172	224.9	3.763	123.8	123.9	123.8	123.9	9.3120E+04
18 45 5	-195.7	-1.211	161.6	3.177	122.6	122.7	122.6	122.7	6.4815E+04
19 26 45	-119.3	-1.279	93.26	2.384	120.9	121.1	120.9	121.1	3.4533E+04
20 8 25	-67.37	-1.256	53.64	1.765	119.6	120.0	119.6	120.0	1.7330E+04
20 50 5	-40.66	-1.115	36.46	1.417	118.9	119.3	118.9	119.3	1.0319E+04
21 31 45	-27.36	-0.9739	28.09	1.217	118.5	119.0	118.5	118.9	7171.
22 13 25	-19.51	-0.8452	23.08	1.081	118.3	118.7	118.3	118.7	5490.
22 55 5	-13.79	-0.7295	18.91	0.9583	118.2	118.5	118.2	118.5	4191.
23 36 45	-10.16	-0.6053	16.78	0.8879	118.1	118.4	118.1	118.4	3641.
Mean	-51.16	-0.41							
Maximum	0.00	0.00							
Minimum	-360.09	-1.28							
Total	-3.597E+04								

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| Table E10 - CONDUIT SUMMARY STATISTICS |
| Note: The peak flow may be less than the design flow |
| and the conduit may still surcharge because of the |
| downstream boundary conditions. |
| |
| * denotes an open conduit that has been overtopped |
| this is a potential source of severe errors |
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Conduit Name	Design Flow (cfs)	Conduit Design Velocity (ft/s)	Maximum Vertical Depth (in)	Maximum Computed Flow (cfs)	Time of Occurence Hr.	Min.	Maximum Computed Velocity (ft/s)	Time of Occurence Hr.	Min.	Ratio of Max. to Design Flow	Maximum Water Elev at Pipe Ends Upstream (ft)	Dwnstrm (ft)	Ratio d/D US	DS	
A2-to-A4	15.0756	1.8845	24.0000	6.2643	15	57	0.7820	15	57	0.4155	137.0876	137.1353	1.624	1.683	
A4-to-A6	15.6047	1.9506	24.0000	15.1684	15	57	1.8934	15	57	0.9720	137.1355	136.8236	1.683	1.602	
A6-to-A8	20.6089	2.0609	24.0000	25.1971	15	57	2.5162	15	57	1.2226	136.8240	136.7181	1.602	1.619	
A8-to-A10	23.1072	2.3107	24.0000	27.7954	15	57	2.7757	15	57	1.2029	136.7181	136.5825	1.619	1.591	
A10-to-A12	20.4240	2.0424	24.0000	29.9843	15	57	2.9946	15	57	1.4681	136.5825	136.1835	1.591	1.467	
A12-to-A14	20.1302	2.0130	24.0000	33.9025	15	57	3.3874	15	57	1.6842	136.1818	135.5763	1.466	1.248	
A14-to-A16	21.0939	2.1094	24.0000	37.2359	15	57	3.7317	15	57	1.7652	135.5763	135.3781	1.248	1.189	
A16-AF4	135.2922	2.7671	42.0000	35.0502	16	6	1.7825	16	0	0.2591	135.3781	134.9803	0.679	1.020	*
AF6-AF8	34.9052	1.9283	26.4000	39.2682	16	24	2.1700	16	24	1.1250	134.8739	133.9990	1.406	1.363	*
AF8-AF10	29.0035	5.9085	30.0000	20.8624	16	24	4.0574	16	24	0.7193	133.9990	133.9424	1.200	1.257	
AF10-AF12	89.8297	2.2600	42.0000	41.3087	16	24	1.5281	16	5	0.4599	133.9424	133.8935	0.898	0.998	
AF12-AF14	8.0441	1.6387	30.0000	21.2561	16	24	4.3209	16	24	2.6424	133.8935	133.8284	1.397	1.379	
AF14-AF16	36.1705	0.7316	36.0000	-40.5903	16	28	-0.9423	15	50	-1.1222	133.8284	133.7570	1.116	1.126	*
AF16-AF18	25.3628	5.1669	30.0000	-20.5983	16	27	-4.0256	16	28	-0.8121	133.7570	133.6668	1.207	1.275	
AF18-AF20	28.4981	0.6690	33.0000	40.2893	16	27	1.8832	16	0	1.4138	133.6668	133.5782	1.064	1.058	*
AF20-AF22	52.0348	10.6004	30.0000	20.3709	16	26	5.3643	15	59	0.3915	133.5782	133.4728	1.163	1.533	
AF22-AF24	62.0721	1.2371	36.0000	40.2144	17	30	0.8330	15	53	0.6479	133.4728	133.3701	1.278	1.370	*
AF24-AF26	50.0309	10.1922	30.0000	-23.1882	17	27	-4.6986	17	27	-0.4635	133.3701	133.3079	1.400	1.619	
AF26-AF28	80.3391	1.6986	45.6000	68.7736	16	53	1.8904	16	44	0.8560	133.3079	132.6749	0.905	0.920	
AF28-AF30	17.9342	3.6535	30.0000	34.4220	16	57	6.9935	16	58	1.9193	132.6749	132.2060	1.398	1.262	
AF30-AF32	75.5367	2.3990	36.0000	68.1673	17	4	2.1653	17	4	0.9024	132.2060	131.3517	1.052	1.117	*
AF32-AF34	24.3392	4.9583	30.0000	35.1157	17	7	7.1301	17	7	1.4428	131.3517	130.8346	1.341	1.234	
AF34-AOUT	125.7445	2.3996	48.0000	70.3418	17	8	2.3854	17	18	0.5594	130.8346	129.8836	0.771	0.746	
AF36-AOUT	16.1542	0.6321	30.0000	18.1190	17	39	1.1840	18	33	1.1216	129.9322	129.8836	0.965	0.993	
AF38-AF36	89.9994	0.9347	30.0000	11.2406	17	52	0.6011	15	35	0.1249	129.9440	129.9322	0.842	0.965	
AF40-AF38	10.5690	0.7686	18.0000	5.0817	16	2	0.6439	15	45	0.4808	129.9856	129.9440	1.104	1.403	*
C2-to-C4	13.4247	7.5969	18.0000	2.8452	16	0	5.7546	16	0	0.2119	155.4588	153.1660	0.313	0.417	
C4-to-C6	13.4110	7.5891	18.0000	4.8803	16	0	6.7172	16	0	0.3639	153.1660	150.0936	0.417	0.542	
C6-to-C8	13.4110	7.5891	18.0000	7.6688	16	1	7.8395	16	1	0.5718	150.0936	146.8330	0.542	0.542	
C8-to-A-M4	5.7535	3.2558	18.0000	10.4565	16	1	5.7458	16	1	1.8174	138.2569	137.5021	1.171	0.828	

AM2-AM4	7.3928	2.4643	12.0000	5.6370	16	1	1.8730	16	1	0.7625	137.3861	137.0593	1.036	1.299	*
AM4-AM6	265.6150	2.8281	40.8000	18.8809	16	10	1.3040	16	2	0.0711	137.0593	135.8731	0.382	0.742	
AM6-AM8	299.3693	3.4895	48.0000	66.5914	16	19	2.3475	16	5	0.2224	135.8731	135.6136	0.631	0.766	
AM8-AM12	62.0953	3.4497	36.0000	73.6691	16	17	4.5782	16	14	1.1864	135.6136	134.5690	1.021	0.996	
AM12-AM14	79.8365	0.7405	40.8000	78.5854	16	17	1.3729	16	3	0.9843	134.5690	134.4680	0.879	0.873	
AM14-AM16	340.2760	4.1448	36.0000	84.1891	16	42	1.9594	15	57	0.2474	134.4680	134.2808	0.989	1.917	*
AM18-AM20	64.2282	3.5682	36.0000	105.1378	17	47	5.8279	17	47	1.6369	133.7133	132.5458	1.924	1.739	
AM20-AM24	61.7262	3.4292	36.0000	110.5841	17	44	6.1377	17	44	1.7915	132.5470	131.8665	1.739	1.602	
AM36-AM38	215.7965	11.9887	36.0000	109.7811	17	6	6.0562	17	6	0.5087	130.5354	130.4347	2.512	2.588	
AM28-AM26	55.0269	4.3789	48.0000	44.7730	16	0	3.5513	16	0	0.8137	130.7348	130.4643	1.721	1.829	
AM30-AM28	38.3015	3.9810	42.0000	30.3856	15	52	3.1498	15	52	0.7933	131.0272	130.7357	1.851	1.967	
AM32-AM30	8.7823	2.7955	24.0000	10.1113	15	44	3.1989	15	44	1.1513	131.0063	131.0272	2.803	3.239	
AM3-AM5	469.4098	4.9953	42.0000	18.6328	16	6	2.1646	16	2	0.0397	139.4339	136.3829	0.310	0.467	
AM5-AM7	230.9287	3.8659	42.0000	20.0115	16	9	1.6158	15	53	0.0867	136.3829	136.0949	0.467	0.756	
AM9-AM7	398.1305	4.8615	42.0000	0.0000	0	0	0.0000	0	0	0.0000	136.0000	136.0949	.0000	.0000	
AM7-AM6	9.8901	2.0148	30.0000	17.2972	16	19	3.4591	16	18	1.7489	136.0949	135.8731	1.058	1.009	
AM11-AM13	3.2662	0.9241	6.0000	-0.2246	16	1	0.1123	16	59	-0.0688	135.6550	135.6545	0.310	1.969	*
AM13-AM15	39.7314	1.5625	18.0000	11.9550	16	26	1.0429	16	18	0.3009	135.6545	135.1065	0.656	0.924	
AM15-AM17	39.1149	1.2489	18.0000	19.9354	16	22	0.9867	16	13	0.5097	135.1065	134.9737	0.924	1.276	*
AM17-AM19	43.5285	1.5602	18.0000	23.4827	16	11	1.3158	16	8	0.5395	134.9737	134.7075	1.276	1.912	*
AM19-AM16	29.8284	4.2199	36.0000	35.0551	16	1	4.8716	16	58	1.1752	134.7075	134.2808	1.956	1.924	
AM21-AM19	55.0236	2.4322	18.0000	-4.3927	16	22	0.4373	18	22	-0.0798	134.7082	134.7075	0.472	1.912	*
AM23-AM25	24.2720	1.2278	12.0000	0.0000	0	0	0.0000	0	0	0.0000	134.1500	133.9131	.0000	.0000	
AM25-AM27	131.2406	2.8086	24.0000	14.6753	16	21	1.4658	16	24	0.1118	133.9131	130.7995	0.447	0.300	
AM27-AM37	29.0635	4.1116	36.0000	31.3369	16	15	4.4023	16	15	1.0782	130.7995	130.7764	2.167	2.209	
AM26-AM38	104.8630	4.1945	60.0000	99.7865	16	13	3.9817	16	13	0.9516	130.4643	130.4347	1.553	1.553	
C1-to-C3	13.4247	7.5969	18.0000	2.8845	16	0	5.7656	16	0	0.2149	155.4622	153.1754	0.315	0.424	
C3-to-C5	13.4110	7.5891	18.0000	5.0722	16	0	6.9150	16	0	0.3782	153.1754	150.0646	0.424	0.523	
C5-to-C7	14.5805	8.2509	18.0000	7.8571	16	1	8.4024	16	1	0.5389	150.0646	144.2843	0.523	0.523	
C7-to-A-M3	5.7535	3.2558	18.0000	12.1124	16	1	6.6477	16	1	2.1052	140.7771	140.1689	1.185	0.879	
AF35-AM31	5.7650	3.2623	18.0000	5.2535	16	43	3.0816	15	27	0.9113	131.1541	131.0722	3.703	3.815	
AM33-AM31	3.5410	2.0038	18.0000	6.0185	18	11	3.3654	18	11	1.6997	130.4521	131.0722	3.235	3.815	
B14-to-B16	25.8322	3.6545	36.0000	10.7792	17	47	1.4565	17	47	0.4173	125.8043	125.7189	1.828	1.870	
B18-to-B20	25.7476	3.6425	36.0000	14.2828	16	0	2.0126	16	0	0.5547	125.6530	125.6405	1.904	2.027	
B26-to-B28	45.4240	3.6147	48.0000	33.7634	17	45	2.6759	17	45	0.7433	125.6280	125.6257	1.892	1.949	
B32-to-B34	77.7976	6.1909	48.0000	44.3780	17	45	3.5124	17	45	0.5704	125.6908	125.7530	2.018	2.088	
B40-to-B38	4.7140	2.6676	18.0000	1.7887	15	54	1.2907	15	30	0.3794	125.6788	125.6796	3.099	3.293	
B38-to-B36	13.3961	2.7290	30.0000	19.5610	15	54	3.9573	15	54	1.4602	125.6797	125.5989	2.828	2.828	
BM2-BM4	4.9929	2.8254	18.0000	10.9476	16	15	6.0598	16	15	2.1926	130.9091	128.9920	4.879	4.008	
BM4-BM6	76.6257	4.8179	54.0000	56.9016	17	10	3.7533	15	33	0.7426	128.9923	128.8527	2.003	2.036	
B2-BM6	18.7006	5.9526	24.0000	5.5092	16	59	4.6761	15	45	0.2946	128.8396	128.8527	2.870	3.081	
BM8-B20	7.7439	4.3822	18.0000	6.2698	17	46	3.5394	17	46	0.8096	125.8026	125.6405	2.968	3.027	
BM10-B26	9.6489	5.4001	18.0000	-8.7942	17	43	-4.9139	17	43	-0.9114	126.2334	125.6280	3.589	3.365	
BM12-B30	6.3759	3.6080	18.0000	-14.4427	17	40	-8.0646	17	40	-2.2652	126.8150	125.6234	4.277	3.576	
BF2-B38	16.7452	3.4113	30.0000	17.9522	15	54	3.6303	15	54	1.0721	125.7071	125.6796	2.819	2.828	
BF3-BF5	21.5594	1.0170	12.0000	18.1353	17	3	0.9884	14	58	0.8412	129.1370	127.9873	1.257	1.387	*
BF5-BF7	104.6607	1.8358	24.0000	35.2899	16	41	1.2246	17	13	0.3372	127.9873	127.2402	0.694	0.880	
BF7-BF9	160.8111	2.3538	30.0000	58.5748	16	33	1.6816	16	11	0.3642	127.2402	126.2521	0.704	0.813	
BF9-BF11	195.1853	2.7627	30.0000	81.1085	16	41	2.1555	16	3	0.4155	126.2521	125.6990	0.813	1.148	*
BM16-BM14	20.7457	4.2263	30.0000	24.5805	15	58	4.9886	15	58	1.1849	126.6791	126.5777	2.288	2.335	
BM18-BM16	16.0978	3.2794	30.0000	15.4890	15	58	3.1439	15	58	0.9622	126.8650	126.6791	2.102	2.288	
BM1-BM4	56.0726	4.4621	48.0000	53.4076	17	21	4.9016	15	34	0.9525	129.1997	128.9923	2.100	2.128	
BM3-BM1	10.6643	3.3946	24.0000	11.0577	16	0	4.5730	15	51	1.0369	129.2731	129.1997	2.637	2.700	
BM9-BM52	30.2084	4.2736	36.0000	-30.4127	15	47	-4.5649	15	42	-1.0068	126.3169	126.3562	2.202	2.269	
BM11-BM18	9.3608	5.2971	18.0000	6.6392	15	58	4.2725	15	47	0.7093	127.0395	126.8650	2.540	3.503	
AM24-AM36	217.0024	12.0557	36.0000	108.9150	17	1	6.5895	18	29	0.5019	131.8684	130.5302	1.603	2.510	
AM38-AOUT	108.1579	4.3263	60.0000	198.0706	16	15	7.9032	16	15	1.8313	130.4347	129.8836	1.553	1.453	
AM37-AM26	27.9019	3.9473	36.0000	39.9614	16	15	5.6140	16	15	1.4322	130.7764	130.4643	2.209	2.151	
AM31-AM41	27.2295	3.8522	36.0000	12.7855	15	52	2.7492	15	23	0.4695	131.0722	131.0723	2.074	2.127	
A11-AM35	4.2884	2.4267	18.0000	-9.5743	16	13	-5.3569	16	13	-2.2326	129.9969	130.1139	2.778	2.889	
AM35-AM32	4.7352	2.6796	18.0000	-7.5438	16	13	-4.2003	16	13	-1.5931	130.1139	131.0063	2.889	3.738	
AM39-AM28	13.3613	4.2530	24.0000	6.9915	16	1	3.5452	15	38	0.5233	130.8109	130.7357	2.330	2.443	
AM41-AM30	26.6035	3.7636	36.0000	18.1986	15	52	2.5636	15	52	0.8841	131.0723	131.0272	2.127	2.159	
BF20-BF22	4.8379	2.7377	18.0000	8.8947	17	40	4.9625	17	40	1.8385	129.9207	129.8531	3.467	3.515	
BM6-BM26	69.7004	4.3825	54.0000	61.7552	16	54	3.8588	16	54	0.8860	128.8528	128.6833	2.036	2.054	
BM20-BM26	12.4428	3.9607	24.0000	10.7447	16	15	3.3820	16	15	0.8635	128.8115	128.6832	3.251	3.367	
BM26-BM28	67.1219	4.2204	54.0000	67.0740	16	47	4.1898	16	47	0.9993	128.6832	128.2386	2.054	2.062	
BM28-BM30	68.5651	4.3111	54.0000	67.0583	16	45	4.1886	16	45	0.9780	128.2387	127.6580	2.062	2.071	
BM22-BM30	18.5631	3.7816	30.0000	17.2654	16	15	3.4811	16	15	0.9301	127.7526	127.6577	2.897	2.927	
BM30-BM32	68.1436	4.2846	54.0000	79.2804	16	35	4.9516	16	35	1.1634	127.6577	126.8905	2.071	2.036	
BM32-BM34	67.8732	4.2676	54.0000	79.2976	16	36	4.9540	16	37	1.1683	126.8914	126.0015	2.036	1.996	
BM24-BM34	10.5477	3.3575	24.0000	12.8185	16	15	4.0301	16	15	1.2153	126.2242	126.0009	3.252	3.240	
BF11-BM38	230.0893	6.5740	60.0000	104.2005	16	53	2.9670	16	53	0.4529	125.6990	125.7632	1.682	1.743	
BM38-BM36	224.5441	6.4155	60.0000	105.6118	17	10	3.0076	17	10	0.4703	125.7661	125.8261	1.743	1.795	
BM36-BM40	230.0893	6.5740	60.0000	151.4636	16	38	4.3120	16	38	0.6583	125.8314	125.8913	1.796	1.820	
BM40-BM42	187.8671	5.3676	60.0000	175.4443	16	33	4.9911	16	33	0.9339	125.8939	125.8086	1.821	1.812	
BM42-BOUT	230.0893	6.5740	60.0000	206.9604	15	54	5.8958	15	54	0.8995	125.8086	125.2866	1.812	1.725	
B34-BM42	59.8035	4.7590	48.0000	44.8263	17	45	3.5474	17	45	0.7496	125.7536	125.8086	2.088	2.135	
B36-BM42	26.3611	5.3702	30.0000	20.1532	15	54	4.3124	15	1	0.7645	125.5989	125.8086	2.828	2.987	
BM34-BM36	67.3337	4.2337	54.0000	90.4802	16	31	5.6558	16	31	1.3438	126.0009	125.8261	1.996	1.995	
BF4-BF2	9.0147	0.6849	18.0000	5.9302	17	7	0.7586	16	3	0.6578	125.8786	125.7071	0.919	1.038	*
BM50-BM48	55.4387	5.7622	42.0000	42.9055	16	31	4.4292	16	31	0.7739	126.2229	125.9021	2.121	2.292	
BM48-BM40	191.7753	19.9327	42.0000	47.1586	16	28	5.9258	15	3	0.2459	125.9021	125.8939	2.292	2.601	
BM52-BM50	30.1929	4.2714	36.0000	26.0730	16	32	3.6598	16	31	0.8635	126.3570	126.2212	2.269	2.307	
BM14-BM50	22.5865	4.6013	30.0000	17.9642	16	4	3.8171	15	29	0.7954	126.5777	126.2212	2.335	2.568	
B42-BM16	5.8020	3.2833	18.0000	7.6293	16	0	4.3023	15	47	1.3149	126.7719	126.6791	3.088	3.146	
BM45-BM46	4.1201	2.3315	18.0000	-1.0797	17	47	0.9374	15	33	-0.2621	126.9900	126.9893	2.873	2.953	
BM46-BM44	4.0653	2.3005	18.0000	1.5226	17	46	1.0508	15	32	0.3745	126.9893	126.9803	2.953	3.174	
BM44-BM56	4.1522	2.3497	18.0000	2.4400	16	0	1.3670	16	0	0.5876	126.9803	126.9640	3.174	3.263	
BM56-BM54	4.1307	2.3375	18.0000	2.4303	16	0	1.3612	16	0	0.5883	126.9640	126.9480	3.263	3.352	
BM54-BM18	8.8187	2.8071	24.0000	7.6503	15	57	2.4208	15	57	0.8675	126.9480	126.8650	2.514	2.628	
BM43-BM44	4.7575	2.6922	18.0000	0.7143	17	42	0.8957	15	21	0.1501	126.9813	126.9803	3.068	3.174	
B44-BM54	3.8356	2.1705	18.0000	5.6045	15	57	3.1397	15	57	1.4612	126.9760	126.9480	3.344	3.352	
BF63-BF61	197.8517	4.4411	61.2000	4.0685	19	10	2.1381	13	21	0.0206	126.6418	126.6419	0.655	0.663	
BF61-BF59	7.3222	2.3307	24.0000	7.6320	19	8	2.4230	19	8	1.0423	127.0071	127.0161	3.194	3.253	
BF59-BF57	7.2614	2.3114	24.0000	7.8270	19	8	2.4858	19	8	1.0779	127.0160	126.9305	3.253	3.295	
BF57-BF55	7.1183	2.2658	24.0000	8.0093	19	8	2.5448	19	8	1.1252	126.9305	126.8829	3.295	3.321	
BF55-BF53	7.1538	2.2771	24.0000	-14.6018	16	47	-4.5749	16	47	-2.0411	126.8829	127.3335	3.321	3.607	
BF53-BF51	12.9708	2.6424	30.0000	14.3683	15	31	2.9075	15	31	1.1077	127.3335	127.3405	2.885	2.972	
BF51-BF43	12.9708	2.6424	30.0000	19.9848	15	31	4.0444	15	31	1.5408	127.3405	127.3310	2.972	3.004	
BF43-BF39	12.9708	2.6424	30.0000	21.2984	15	35	4.3049	15	35	1.6420	127.3310	127.3235	3.004	3.021	
BF39-BF37	12.9708	2.6424	30.0000	24.5821	15	34	4.9722	15	34	1.8952	127.3235	127.2682	3.021	3.079	
BF37-BF35	21.0919	2.9839	36.0000	41.1226	19	7	5.7729	19	7	1.9497	127.2682	127.2462	2.566	2.592	
BF35-BF33	21.5096	3.0430	36.0000	46.5998	19	5	6.5561	19	5	2.1665	127.2462	127.1928	2.592	2.618	
BF33-BF77	20.5293	2.9043	36.0000	63.1808	19	6	8.8798	19	6	3.0776	127.1928	127.1427	2.618	2.631	
BF77-BF81	7.1538	2.2771	24.0000	57.5352	18	17	18.0349	18	17	8.0426	127.1427	126.9770	3.946	3.879	
BF79-BF75	44.7993	2.8000	48.0000	148.7946	18	24	9.2616	18	24	3.3214	126.9672	126.9626	1.952	1.958	
BF75-BF19	39.5093	2.4693	48.0000	74.7470	18	24	4.6551	18	24	1.8919	126.9626	126.9471	1.958	1.972	
BF19-BF73	42.2372	2.6398	48.0000	69.3841	18	25	4.3219	18	25	1.6427	126.9471	126.9283	1.972	1.987	
BF73-BF17	40.8960	2.5560	48.0000	67.6317	18	26	4.2134	18	26	1.6537	126.9283	126.8690	1.987	2.010	
BF17-BF15	40.8960	2.5560	48.0000	80.3413	15	38	5.0452	15	38	1.9645	126.8690	126.5638	2.010	1.971	
BF15-BF13	40.8960	2.5560	48.0000	78.9691	18	27	4.9241	18	27	1.9310	126.5638	126.2350	1.971	1.926	
BF13-BF71	54.1680	3.3855	48.0000	95.9214	18	7	5.9801	18	7	1.7708	126.2350	125.8617	1.926	1.870	
BF45-BF41	6.2145	3.5167	18.0000	2.5344	16	0	3.3745	16	1	0.4078	129.7088	129.2929	0.446	0.402	
BF41-BF39	24.7837	14.0247	18.0000	6.6854	19	7	7.9774	19	7	0.2698	127.3287	127.3235	3.259	4.369	
BF49-BF47	3.3218	1.8797	18.0000	2.5228	16	0	2.7236	16	0	0.7595	130.6386	130.3416	0.532	0.401	
BF47-BF43	11.6017	6.5652	18.0000	-4.8938	19	9	3.2555	19	10	-0.4218	127.3636	127.3310	3.549	4.674	
BF81-BF79	42.7144	2.6697	48.0000	97.6609	18	24	6.0800	18	24	2.2864	126.9770	126.9672	1.939	1.952	
BF71-BF67	241.0036	9.6401	60.0000	107.9381	18	5	4.3675	15	35	0.4479	125.8617	126.3291	1.496	1.796	
BF67-BF11	230.0893	6.5740	60.0000	71.9222	17	29	2.0487	17	29	0.3126	126.3291	125.6990	1.796	1.682	
BF22-BF25	4.7946	2.7132	18.0000	8.9058	17	40	4.9774	17	40	1.8578	129.8533	129.7518	3.516	3.581	
BF23-BF25	5.8857	3.3306	18.0000	17.5486	16	1	9.7996	16	1	2.9815	129.9511	129.7518	3.534	3.581	
BF25-BF27	26.5033	3.7494	36.0000	44.5575	17	58	6.2841	17	58	1.6812	129.7523	129.4928	2.291	2.284	
BF27-BF29	60.6402	4.8256	48.0000	47.8291	17	39	4.0856	15	38	0.7887	129.4929	129.4382	1.963	1.995	
BF29-BF31	54.4777	4.3352	48.0000	47.8466	17	41	3.8918	15	37	0.8783	129.4404	129.3591	1.995	2.027	
BF31-BM1	55.3567	4.4051	48.0000	47.8650	17	41	3.7954	17	41	0.8647	129.3591	129.1997	2.027	2.100	
BF21-BF25	15.8859	3.2362	30.0000	40.3947	17	58	8.1816	17	58	2.5428	129.9463	129.7518	2.779	2.749	
BF1-BF27	22.5792	4.5998	30.0000	13.5410	16	1	4.9236	15	44	0.5997	129.5079	129.4928	2.667	2.741	

E100	387682.6	5.2456	282.6000	251.6301	16	54	2.3628	18	34	0.0006	129.8836	128.6033	0.308	0.277	
E131	2135.635	4.5455	115.8000	-362.078	16	49	-1.2963	19	45	-0.1695	125.2866	125.2075	0.771	0.886	
OF A-M16	9.8102	0.0000	6.0000	45.2888	16	45	1.6692	16	45	4.6165	134.2808	134.1853	0.562	0.371	
OF A11	58.0071	3.6198	6.0000	20.0765	16	10	2.2597	16	4	0.3461	129.9969	129.9511	0.994	3.302	*
D2-D1	6.8567	3.8801	18.0000	11.4758	16	38	6.5336	16	38	1.6736	124.7746	124.2742	1.516	1.509	
D1-D3	6.5996	2.1007	24.0000	14.4374	16	38	4.5753	16	38	2.1876	124.2742	124.1031	2.197	2.172	
D3-D5	13.8171	2.8148	30.0000	21.9808	16	38	4.8916	15	56	1.5908	124.1029	123.8483	1.937	1.899	
D5-D7	20.0497	2.8364	36.0000	29.2554	16	34	4.6705	15	47	1.4591	123.8480	123.5980	1.956	1.923	
D7-D9	47.8811	3.8103	48.0000	46.2301	16	21	4.0398	15	40	0.9655	123.5975	123.3869	1.692	1.712	
D9-D11	43.8147	2.2315	60.0000	52.7209	16	20	2.7306	15	41	1.2033	123.3866	123.3446	1.493	1.491	
D11-D13	52.7972	2.6889	60.0000	67.9570	16	16	3.4511	16	16	1.2871	123.3444	123.2344	1.491	1.481	
D13-D15	57.0275	2.9044	60.0000	76.8302	16	15	3.9015	16	15	1.3472	123.2325	123.1167	1.480	1.471	
D15-D17	120.9548	6.1602	60.0000	86.7925	16	15	4.4077	16	15	0.7176	123.1166	122.8417	1.471	1.548	
D17-D19	63.9782	3.2584	60.0000	97.9195	16	15	4.9705	16	15	1.5305	122.8414	122.7091	1.548	1.536	
D19-D21	68.6923	3.4985	60.0000	106.8679	16	15	5.4257	16	15	1.5557	122.7106	122.5630	1.536	1.523	
D21-D23	76.7518	3.0701	60.0000	114.9788	16	15	4.5886	16	15	1.4981	122.5638	122.4380	1.523	1.510	
D23-D25	81.2265	3.2491	60.0000	131.9500	16	15	5.2665	16	15	1.6245	122.4362	122.0683	1.509	1.466	
D25-D27	84.8383	3.3935	60.0000	145.4423	16	15	5.8063	16	15	1.7143	122.0677	121.5587	1.466	1.400	
D27-D29	89.6422	3.5857	60.0000	161.6131	16	15	6.4546	16	15	1.8029	121.5584	120.9484	1.400	1.316	
D29-D31	94.5518	3.7821	60.0000	169.4907	16	15	6.7711	16	15	1.7926	120.9479	120.6224	1.316	1.270	
D31-D33	100.5170	3.3506	60.0000	188.4942	16	15	6.2767	16	15	1.8752	120.6217	120.1688	1.270	1.220	
D33-D35	108.2456	3.6082	60.0000	206.2819	16	15	6.8725	16	15	1.9057	120.1673	119.3632	1.219	1.093	
D35-D37	116.5642	3.2379	72.0000	220.5959	16	15	6.1271	16	15	1.8925	119.3659	118.8500	1.078	1.000	
D4-D3	5.2522	2.9721	18.0000	5.2036	16	0	3.5777	15	47	0.9907	124.2767	124.1029	2.604	2.642	
D6-D5	5.4010	3.0563	18.0000	3.8838	16	1	3.3917	15	53	0.7191	123.9555	123.8480	2.777	2.859	
D8-D7	8.7616	2.7889	24.0000	6.5544	15	59	3.4242	15	44	0.7481	123.6712	123.5975	2.606	2.629	
D10-D9	5.2871	2.9919	18.0000	2.5002	16	1	2.7922	15	50	0.4729	123.4750	123.3866	2.950	3.018	
D12-D11	15.7084	3.2001	30.0000	5.2441	16	0	2.8049	15	36	0.3338	123.4500	123.3444	2.320	2.322	
D14-D13	5.2871	2.9919	18.0000	3.1791	16	1	3.1184	15	53	0.6013	123.3506	123.2325	2.727	2.775	
D16-D15	5.2871	2.9919	18.0000	3.7608	16	1	3.3706	15	58	0.7113	123.3006	123.1166	2.094	2.098	
D18-D17	5.2871	2.9919	18.0000	4.4377	16	0	3.5629	15	58	0.8394	123.1486	122.8414	1.992	1.914	
D20-D19	5.2871	2.9919	18.0000	3.5582	16	15	3.1026	15	53	0.6730	122.9024	122.7106	2.588	2.587	
D22-D21	5.2871	2.9919	18.0000	3.3096	16	1	2.9231	15	50	0.6260	122.7173	122.5638	2.745	2.769	
D24-D23	26.4764	5.3937	30.0000	7.5090	16	15	3.3343	15	38	0.2836	122.5183	122.4362	2.131	2.218	
D26-D25	9.7476	5.5160	18.0000	6.3883	16	15	5.0242	15	47	0.6554	122.3756	122.0677	2.677	2.885	
D28-D27	10.7209	6.0668	18.0000	7.7953	16	15	5.7293	15	48	0.7271	121.9368	121.5584	2.418	2.666	
D30-D29	11.0725	6.2658	18.0000	4.5013	15	58	4.7561	15	47	0.4065	121.0653	120.9479	1.924	2.379	
D32-D31	28.7985	5.8668	30.0000	11.3504	15	58	4.0086	15	41	0.3941	120.6883	120.6217	1.623	1.737	
D34-D33	29.4103	9.3616	24.0000	11.3657	15	59	6.6320	15	45	0.3865	120.0739	120.1673	1.142	1.789	
D38-D36	12.2944	6.9572	18.0000	3.8691	16	0	6.1633	16	0	0.3147	121.0784	120.0777	0.386	0.385	
D36-D35	16.9561	9.5952	18.0000	8.4487	16	15	8.8727	15	49	0.4983	119.7628	119.3659	0.662	1.631	
F2-F4	33.3492	4.7179	36.0000	2.7084	16	0	1.8941	15	38	0.0812	121.3670	121.3350	0.616	0.772	
F4-F10	45.4240	3.6147	48.0000	15.7212	16	3	2.3983	15	45	0.3461	121.3349	121.2819	0.704	0.765	
F10-F12	45.4240	3.6147	48.0000	23.1219	16	3	3.1222	15	44	0.5090	121.2819	121.1855	0.765	0.826	
F12-F14	45.4240	3.6147	48.0000	26.9424	16	2	4.2390	15	41	0.5931	121.1855	121.1746	0.826	0.831	
F14-F16	44.3407	2.2583	60.0000	69.1986	16	16	3.3743	16	16	1.5606	121.1746	121.0352	1.119	1.103	
F16-F18	52.4039	2.6689	60.0000	80.5665	16	16	3.9439	16	16	1.5374	121.0352	120.8067	1.103	1.077	
F18-F20	61.3101	2.5806	66.0000	100.7409	16	16	4.1137	16	16	1.6431	120.8068	120.7806	1.070	1.067	
F20-F22	6.2186	0.0000	54.0000	100.7312	16	16	6.2944	16	16	16.1984	120.7810	120.6668	2.011	1.986	
F22-F24	67.6141	2.8459	66.0000	100.7305	16	16	4.1506	16	16	1.4898	120.6669	120.5327	1.050	1.037	
F24-F26	73.3538	2.5944	72.0000	109.4783	16	16	3.8167	16	16	1.4925	120.5328	120.3929	1.034	1.020	
F26-F28	75.7595	2.6794	72.0000	117.1251	16	15	4.1082	16	15	1.5460	120.3929	120.1900	1.020	1.000	
F6-F8	3.3218	1.8797	18.0000	2.5329	16	0	2.7276	16	0	0.7625	124.8702	124.5728	0.533	0.402	
F8-F10	6.2936	3.5615	18.0000	3.8178	16	0	3.9981	16	0	0.6066	122.8538	122.6566	0.536	0.498	
F1-F3	13.0280	2.6540	30.0000	21.7409	16	28	4.3907	16	28	1.6688	124.8780	123.0852	1.123	0.634	
F3-F9	45.4240	3.6147	48.0000	37.5537	16	15	5.2050	16	15	0.8267	122.2977	121.3275	0.574	0.417	
F9-F11	150.6543	11.9887	48.0000	43.5623	16	15	10.4481	15	47	0.2892	121.3275	121.1243	0.417	0.449	
F11-F14	205.4729	16.3510	48.0000	43.5613	16	15	11.9618	15	44	0.2120	121.1243	121.1746	0.449	0.794	
F5-F7	3.3218	1.8797	18.0000	2.5332	16	0	2.7277	16	0	0.7626	125.1102	124.8128	0.533	0.402	
F7-F3	6.2936	3.5615	18.0000	3.8481	16	0	4.0083	16	0	0.6114	123.0972	122.8997	0.538	0.500	
F13-F16	42.9383	13.6677	24.0000	8.2700	16	15	9.9287	15	41	0.1926	121.7715	121.0352	0.381	1.418	
F15-F18	38.1652	12.1484	24.0000	13.7618	16	15	10.4935	15	44	0.3606	121.4579	120.8068	0.569	1.353	
F17-F24	44.5789	14.1899	24.0000	6.2205	16	15	7.5380	15	40	0.1395	121.5506	120.5328	0.280	1.266	
F19-F26	11.6637	3.7127	24.0000	5.4360	16	15	3.9012	16	15	0.4661	122.6124	122.3019	0.461	0.411	
F21-F28	11.6637	3.7127	24.0000	3.4967	16	15	3.3948	16	15	0.2998	122.3048	122.0135	0.367	0.327	
OF AM33	11.8142	1.9609	6.0000	9.3667	16	16	1.7949	16	18	0.7928	130.4521	129.9969	0.904	0.794	
OF B36	185.4841	5.2992	6.0000	0.0000	0	0	0.0000	0	0	0.0000	125.5989	125.2866	.0000	.0000	
OF B34	46.4564	3.0966	6.0000	0.0000	0	0	0.0000	0	0	0.0000	125.5968	125.2866	.0000	.0000	
OF BF20	21.7843	1.8150	6.0000	-8.9274	16	40	-1.5477	17	43	-0.4098	129.9207	129.9440	0.841	1.888	*
OF BM11	266.7351	10.6683	6.0000	6.3121	16	22	1.6867	16	22	0.0237	127.0395	126.9283	0.079	2.857	*
AM5-AM5B	1.2971	0.0000	30.0000	3.4991	16	19	0.9349	16	19	2.6977	136.3829	136.3768	0.713	0.711	
338.1	33.6422	6.8535	30.0000	-20.2196	16	19	-4.0957	16	19	-0.6010	134.9803	134.8739	1.280	1.386	
DW AF4	148.1220	3.3672	6.0000	2.6944	16	27	0.8104	16	27	0.0182	134.9803	134.8739	0.141	0.248	
ss AM16	63.5236	3.5291	36.0000	93.4277	17	47	5.1726	17	47	1.4708	134.2808	133.7133	1.924	1.924	
ditch AM16	19.6900	0.6084	12.0000	25.7712	16	59	0.7966	16	59	1.3088	134.2808	133.7133	1.281	1.063	*
SS B4	8.7653	4.9601	18.0000	-4.2335	17	50	3.1149	17	48	-0.4830	126.6032	126.3424	2.262	2.715	
RD B4	69.1276	3.8399	6.0000	0.0000	0	0	0.0000	0	0	0.0000	126.3424	126.3424	.0000	.0000	
SS B6	10.4851	3.3375	24.0000	-6.0331	17	48	2.1790	15	44	-0.5754	126.3424	126.0834	2.036	2.052	
RD B6	21.7615	2.4178	3.0000	0.0000	0	0	0.0000	0	0	0.0000	126.0834	126.0834	.0000	.0000	
SS B8	10.1170	3.2204	24.0000	6.4176	17	47	2.5714	15	42	0.6343	126.0834	125.8575	2.052	2.074	
RD B8	21.9697	2.4409	3.0000	0.0000	0	0	0.0000	0	0	0.0000	125.8575	125.8575	.0000	.0000	
SS B10	30.9773	6.3100	30.0000	8.5410	17	47	3.2735	15	35	0.2757	125.8575	125.8007	1.659	1.944	
RD B10	21.3389	2.3708	3.0000	0.0000	0	0	0.0000	0	0	0.0000	125.8007	125.8007	.0000	.0000	
SS B12	25.8322	3.6545	36.0000	10.5389	17	47	1.6102	15	27	0.4080	125.8006	125.8042	1.787	1.828	
RD B12	68.6778	3.8149	6.0000	0.0000	0	0	0.0000	0	0	0.0000	125.8006	125.8006	.0000	.0000	
SS B16	26.2207	3.7095	36.0000	11.0671	16	1	1.5601	16	1	0.4221	125.7189	125.6530	1.870	1.904	
RD B16	20.6086	2.2897	3.0000	0.0000	0	0	0.0000	0	0	0.0000	125.6530	125.6530	.0000	.0000	
SS B20	38.7247	4.0250	42.0000	17.6895	16	0	1.8314	16	0	0.4568	125.6405	125.6299	1.880	1.934	
RD B20	22.1760	2.4638	3.0000	0.0000	0	0	0.0000	0	0	0.0000	125.6405	125.6299	.0000	.0000	
SS B22	39.4624	4.1016	42.0000	20.6659	17	43	2.1371	17	43	0.5237	125.6299	125.6292	1.934	1.991	
RD B22	22.1981	2.4647	3.0000	2.7269	16	34	0.4980	17	42	0.1228	125.6299	125.6292	1.560	3.637	*
SS B24	46.6040	3.7086	48.0000	32.9649	17	44	2.6107	17	44	0.7073	125.6292	125.6280	1.867	1.892	
RD B24	22.1760	2.4638	3.0000	4.8198	17	45	1.1421	17	45	0.2173	125.6292	125.6280	2.117	3.632	*
SS B28	43.8837	3.4922	48.0000	35.2088	17	45	2.7886	17	45	0.8023	125.6257	125.6234	1.949	1.966	
RD B28	21.0380	2.3374	3.0000	3.1755	16	33	0.3529	16	33	0.1509	125.6257	125.6234	1.423	2.493	*
SS B30	46.2575	3.6811	48.0000	42.0935	17	45	3.3318	17	45	0.9100	125.6234	125.6908	1.966	2.018	
RD B30	22.9827	2.5535	3.0000	1.2755	16	48	0.4672	16	48	0.0555	125.6234	125.6908	0.173	2.763	*
ss bf63	23.6813	4.8243	30.0000	46.2776	17	7	9.4127	17	9	1.9542	126.6418	125.5000	1.337	1.000	
rd bf63	9.8032	0.0000	6.0000	0.0000	0	0	0.0000	0	0	0.0000	125.5000	125.5000	.0000	.0000	
rect-orif	1.9010	0.5377	6.0000	4.0409	19	11	8.3004	15	25	2.1257	126.6419	127.0071	6.764	7.514	
underHWY6	Undefnd	Undefnd	Undefn	31.6356	16	19									
WEIR BF20	Undefnd	Undefnd	Undefn	14.7555	16	37									
FREE # 1	Undefnd	Undefnd	Undefn	138.9619	17	9									
FREE # 2	Undefnd	Undefnd	Undefn	251.6268	16	54									
FREE # 3	Undefnd	Undefnd	Undefn	362.1439	16	48									
FREE # 4	Undefnd	Undefnd	Undefn	31.6356	16	19									
FREE # 5	Undefnd	Undefnd	Undefn	223.1105	16	15									
FREE # 6	Undefnd	Undefnd	Undefn	121.9128	16	15									
FREE # 7	Undefnd	Undefnd	Undefn	6.9990	16	19									

Table E14 - Natural Channel Overbank Flow Information

	<---- Maximum Velocity ----->			<------ Maximum Flow ------->			<------ Maximum Area ------>			<--- Max. Storage Volume --->			
Conduit Name	Left Velocity	Center Velocity	Right Velocity	Left Flow	Center Flow	Right Flow	Left Area	Center Area	Right Area	Left Area	Center Area	Right Area	Maximum Depth
A16-AF4	0.0000	1.4024	0.0000	0.0000	35.0502	0.0000	0.0000	24.9928	0.0000	0.0000	15295.593	0.0000	2.5135
AF6-AF8	0.0984	2.1724	0.0000	0.0026	39.2656	0.0000	0.0265	18.0746	0.0000	9.5978	6543.0190	0.0000	2.2000
AF10-AF12	0.0000	1.2644	0.0000	0.0000	41.3087	0.0000	0.0000	32.6706	0.0000	0.0000	7187.5418	0.0000	3.1809
AF14-AF16	0.3595	0.9921	0.0000	4.7781	35.8122	0.0000	13.2924	36.0967	0.0000	4625.7450	12561.638	0.0000	2.9990
AF18-AF20	0.3670	1.1713	0.0000	4.3673	35.9220	0.0000	11.9009	30.6684	0.0000	2570.5848	6624.3784	0.0000	2.7494

AF22-AF24	0.3792	0.9206	0.0000	4.1260	36.0884	0.0000	10.8801	39.2019	0.0000	6495.4028	23403.519	0.0000	2.9977
AF26-AF28	0.0000	1.8014	0.0000	0.0000	68.7736	0.0000	0.0000	38.1770	0.0000	0.0000	28098.257	0.0000	3.4424
AF30-AF32	0.0000	2.1795	0.0000	0.0000	68.1673	0.0000	0.0000	31.2760	0.0000	0.0000	16419.919	0.0000	2.9901
AF34-AOUT	0.0000	2.3620	0.0000	0.0000	70.3418	0.0000	0.0000	29.7802	0.0000	0.0000	15485.711	0.0000	3.0702
AF36-AOUT	0.0000	0.7641	0.0000	0.0000	18.1190	0.0000	0.0000	23.7127	0.0000	0.0000	13871.951	0.0000	2.4174
AF38-AF36	0.1181	0.2289	0.0000	4.3175	6.9231	0.0000	36.5687	30.2473	0.0000	28304.186	23411.420	0.0000	2.1482
AF40-AF38	0.0469	0.3900	0.0000	0.0278	5.0539	0.0000	0.5929	12.9586	0.0000	286.9678	6271.9509	0.0000	1.4936
AM4-AM6	0.0000	1.2678	0.0000	0.0000	18.8809	0.0000	0.0000	14.8922	0.0000	0.0000	14847.483	0.0000	1.4404
AM6-AM8	0.0000	2.0596	0.0000	0.0000	66.5914	0.0000	0.0000	32.3330	0.0000	0.0000	7145.5854	0.0000	2.5824
AM12-AM14	0.0000	0.8851	0.0000	0.0000	78.5854	0.0000	0.0000	88.7899	0.0000	0.0000	58423.739	0.0000	2.9869
AM14-AM16	0.0000	1.0408	0.0000	0.0000	84.1891	0.0000	0.0000	80.8921	0.0000	0.0000	60426.417	0.0000	2.9712
AM3-AM5	0.0000	2.1274	0.0000	0.0000	18.6328	0.0000	0.0000	8.7584	0.0000	0.0000	4405.4658	0.0000	1.1457
AM5-AM7	0.0000	1.3614	0.0000	0.0000	20.0115	0.0000	0.0000	14.6997	0.0000	0.0000	4498.0980	0.0000	1.7575
AM9-AM7	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
AM11-AM13	0.0000	0.0699	0.0000	0.0000	0.2246	0.0000	0.0000	3.2144	0.0000	0.0000	883.9489	0.0000	0.4768
AM13-AM15	0.0000	1.0172	0.0000	0.0000	11.9550	0.0000	0.0000	11.7523	0.0000	0.0000	5617.6092	0.0000	1.0183
AM15-AM17	0.0000	0.7343	0.0000	0.0000	19.9354	0.0000	0.0000	27.1474	0.0000	0.0000	13763.730	0.0000	1.3982
AM17-AM19	0.0000	0.8417	0.0000	0.0000	23.4827	0.0000	0.0000	27.8993	0.0000	0.0000	17269.654	0.0000	1.5000
AM21-AM19	0.0000	0.2105	0.0000	0.0000	4.3927	0.0000	0.0000	20.8656	0.0000	0.0000	9306.0512	0.0000	1.4405
AM23-AM25	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
AM25-AM27	0.0000	1.4635	0.0000	0.0000	14.6753	0.0000	0.0000	10.0278	0.0000	0.0000	6467.9491	0.0000	0.8657
BF3-BF5	0.0000	1.1397	0.6194	0.0000	11.1010	7.0343	0.0000	9.7406	11.3559	0.0000	6380.1108	7438.1206	0.9981
BF5-BF7	0.0000	1.2144	0.0000	0.0000	35.2899	0.0000	0.0000	29.0600	0.0000	0.0000	17290.688	0.0000	1.4291
BF7-BF9	0.0000	1.6308	0.0000	0.0000	58.5748	0.0000	0.0000	35.9175	0.0000	0.0000	21801.939	0.0000	1.7881
BF9-BF11	0.0000	1.6267	0.0000	0.0000	81.1085	0.0000	0.0000	49.8618	0.0000	0.0000	23883.795	0.0000	2.0831
BF4-BF2	0.0000	0.5259	0.0000	0.0000	5.9302	0.0000	0.0000	11.2760	0.0000	0.0000	8659.9773	0.0000	1.3913
BF63-BF61	0.0000	0.2225	0.0000	0.0000	4.0685	0.0000	0.0000	18.2852	0.0000	0.0000	731.4094	0.0000	3.3779
E100	0.0000	1.9951	0.2185	0.0000	235.3316	16.2985	0.0000	117.9539	74.5993	0.0000	142252.45	89966.794	7.1920
E131	0.3089	1.1344	0.1449	7.4343	354.1340	0.5094	24.0666	312.1867	3.5160	11431.632	148288.66	1670.0989	8.5112
DW AF4	0.0000	0.8112	0.0000	0.0000	2.6944	0.0000	0.0000	3.3214	0.0000	0.0000	109.6064	0.0000	0.0759
ditch AM16	1.2285	0.6966	0.0000	7.5465	18.2247	0.0000	6.1427	26.1616	0.0000	3673.3179	15644.630	0.0000	0.9992

Table E14a - Natural Channel Encroachment Information

Conduit Name	<- Existing Conveyance Condition -> Left Bank	Centre Channel	Right Bank	Total	<- Encroachment Conveyance Condition -> Left Station	Right Station	<- % Volume --> Left	Right	<-- Encroachment Data --> Depth Incr.	Method
A16-AF4	0.0000	1199.9	0.0000	1199.9	16.474	36.613	0.0000	0.0000	0.0000	None
AF6-AF8	0.05325	801.46	0.0000	801.52	10.752	28.880	0.0000	0.0000	0.0000	None
AF10-AF12	0.0000	1858.4	0.0000	1858.4	11.849	31.889	0.0000	0.0000	0.0000	None
AF14-AF16	280.20	2100.1	0.0000	2380.3	-.2E-04	47.588	0.0000	0.0000	0.0000	None
AF18-AF20	205.94	1693.9	0.0000	1899.8	-.2E-05	51.455	0.0000	0.0000	0.0000	None
AF22-AF24	265.06	2318.4	0.0000	2583.4	-.4E-04	39.789	0.0000	0.0000	0.0000	None
AF26-AF28	0.0000	2251.7	0.0000	2251.7	18.055	40.275	0.0000	0.0000	0.0000	None
AF30-AF32	0.0000	1674.0	0.0000	1674.0	23.287	44.539	0.0000	0.0000	0.0000	None
AF34-AOUT	0.0000	1666.9	0.0000	1666.9	21.684	40.349	0.0000	0.0000	0.0000	None
AF36-AOUT	0.0000	1067.2	0.0000	1067.2	30.615	51.759	0.0000	0.0000	0.0000	None
AF38-AF36	889.85	1426.9	0.0000	2316.7	-.3E-04	82.651	0.0000	0.0000	0.0000	None
AF40-AF38	2.4890	452.35	0.0000	454.83	93.452	121.63	0.0000	0.0000	0.0000	None
AM4-AM6	0.0000	505.17	0.0000	505.17	25.783	46.434	0.0000	0.0000	0.0000	None
AM6-AM8	0.0000	1602.9	0.0000	1602.9	19.939	45.030	0.0000	0.0000	0.0000	None
AM12-AM14	0.0000	5944.8	0.0000	5944.8	11.822	55.975	0.0000	0.0000	0.0000	None
AM14-AM16	0.0000	5286.1	0.0000	5286.1	14.246	56.008	0.0000	0.0000	0.0000	None
AM3-AM5	0.0000	254.57	0.0000	254.57	45.142	60.431	0.0000	0.0000	0.0000	None
AM5-AM7	0.0000	564.40	0.0000	564.40	21.404	38.132	0.0000	0.0000	0.0000	None
AM9-AM7	0.0000	0.0000	0.0000	0.0000	35.276	35.276	0.0000	0.0000	0.0000	None
AM11-AM13	0.0000	52.383	0.0000	52.383	27.068	40.550	0.0000	0.0000	0.0000	None
AM13-AM15	0.0000	317.94	0.0000	317.94	25.813	48.827	0.0000	0.0000	0.0000	None
AM15-AM17	0.0000	896.40	0.0000	896.40	20.071	59.552	0.0000	0.0000	0.0000	None
AM17-AM19	0.0000	980.48	0.0000	980.48	22.992	59.913	0.0000	0.0000	0.0000	None
AM21-AM19	0.0000	709.83	0.0000	709.83	24.431	53.379	0.0000	0.0000	0.0000	None
AM23-AM25	0.0000	0.0000	0.0000	0.0000	40.717	40.717	0.0000	0.0000	0.0000	None
AM25-AM27	0.0000	255.75	0.0000	255.75	29.372	50.834	0.0000	0.0000	0.0000	None
BF3-BF5	0.0000	277.45	175.81	453.26	20.757	73.708	0.0000	0.0000	0.0000	None
BF5-BF7	0.0000	982.28	0.0000	982.28	35.364	76.153	0.0000	0.0000	0.0000	None

BF7-BF9	0.0000	1422.4	0.0000	1422.4	58.611	98.295	0.0000	1422.4	0.0000	1422.4	58.611	98.295	0.0000	0.0000	0.0000	None
BF9-BF11	0.0000	2228.0	0.0000	2228.0	61.776	107.73	0.0000	2228.0	0.0000	2228.0	61.776	107.73	0.0000	0.0000	0.0000	None
BF4-BF2	0.0000	370.63	0.0000	370.63	32.436	48.745	0.0000	370.63	0.0000	370.63	32.436	48.745	0.0000	0.0000	0.0000	None
BF63-BF61	0.0000	2655.7	0.0000	2655.7	16.948	27.774	0.0000	2655.7	0.0000	2655.7	16.948	27.774	0.0000	0.0000	0.0000	None
E100	0.0000	8431.2	583.92	9015.1	4978.6	6498.9	0.0000	8431.2	583.92	9015.1	4978.6	6498.9	0.0000	0.0000	0.0000	None
E131	681.94	32484.3	46.725	33213.0	109.39	218.79	681.94	32484.3	46.725	33213.0	109.39	218.79	0.0000	0.0000	0.0000	None
DW AF4	0.0000	46.222	0.0000	46.222	79.884	142.97	0.0000	46.222	0.0000	46.222	79.884	142.97	0.0000	0.0000	0.0000	None
ditch AM16	287.97	695.44	0.0000	983.41	-.3E-04	70.926	287.97	695.44	0.0000	983.41	-.3E-04	70.926	0.0000	0.0000	0.0000	None

Table E14b - Floodplain Mapping

Conduit Name	Upstream WS Elev.	Downstream WS Elev.	Channel Length	Center Station	<----- Left Offsets Natural	Encroach	------> Bank	<----- Right Offsets Natural	Encroach	------> Bank	<- Channel Widths-> Total	Encroach.
A16-AF4	135.3781	134.9803	612.0000	24.3790	7.9046	7.9046	14.8730	12.2339	12.2339	14.9950	20.1385	20.1385
AF6-AF8	134.8739	133.9990	362.0000	20.9020	10.1496	10.1496	8.3820	7.9783	7.9783	13.1650	18.1278	18.1278
AF10-AF12	133.9424	133.8935	220.0000	20.6900	8.8412	8.8412	9.3090	11.1990	11.1990	13.9510	20.0402	20.0402
AF14-AF16	133.7570	133.8284	348.0000	35.8830	35.8830	35.8830	10.1600	11.7048	11.7048	14.4840	47.5879	47.5879
AF18-AF20	133.6668	133.5782	216.0000	39.1350	39.1350	39.1350	7.7920	12.3195	12.3195	15.3530	51.4545	51.4545
AF22-AF24	133.4728	133.3701	597.0000	29.3440	29.3440	29.3440	12.7760	10.4455	10.4455	11.6380	39.7895	39.7895
AF26-AF28	133.3079	132.6749	736.0000	26.5680	8.5131	8.5131	9.7330	13.7073	13.7073	14.1050	22.2204	22.2204
AF30-AF32	132.2060	131.3517	525.0000	32.4320	9.1450	9.1450	10.1710	12.1073	12.1073	13.9260	21.2523	21.2523
AF34-AOUT	130.8346	129.8836	520.0000	29.7950	8.1110	8.1110	22.7580	10.5542	10.5542	13.6790	18.6652	18.6652
AF36-AOUT	129.9322	129.8836	585.0000	42.0030	11.3878	11.3878	20.6970	9.7558	9.7558	14.5150	21.1436	21.1436
AF38-AF36	129.9440	129.9322	774.0000	69.9940	69.9940	69.9940	12.8750	12.6565	12.6565	17.0440	82.6506	82.6506
AF40-AF38	129.9856	129.9440	484.0000	111.8970	18.4447	18.4447	7.4070	9.7307	9.7307	13.1290	28.1754	28.1754
AM4-AM6	137.0593	135.8731	997.0000	37.0490	11.2659	11.2659	22.6840	9.3852	9.3852	36.9330	20.6511	20.6511
AM6-AM8	135.8731	135.6136	221.0000	30.8080	10.8691	10.8691	16.4000	14.2217	14.2217	23.0370	25.0908	25.0908
AM12-AM14	134.5690	134.4680	658.0000	27.5580	15.7365	15.7365	16.7020	28.4174	28.4174	32.7830	44.1539	44.1539
AM14-AM16	134.4680	134.2808	747.0000	31.2450	16.9987	16.9987	19.2540	24.7633	24.7633	30.5850	41.7619	41.7619
AM3-AM5	139.4339	136.3829	503.0000	53.7280	8.5861	8.5861	38.7910	6.7027	6.7027	16.3860	15.2887	15.2887
AM5-AM7	136.3829	136.0949	306.0000	29.9840	8.5800	8.5800	19.7220	8.1475	8.1475	25.7940	16.7275	16.7275
AM9-AM7	136.0000	136.0949	500.0000	35.2760	0.0000	0.0000	15.5350	0.0000	0.0000	18.5000	0.0000	0.0000
AM11-AM13	135.6550	135.6545	275.0000	32.8780	5.8102	5.8102	22.0730	7.6723	7.6723	12.7760	13.4825	13.4825
AM13-AM15	135.6545	135.1065	478.0000	38.9690	13.1558	13.1558	24.1390	9.8577	9.8577	18.4630	23.0135	23.0135
AM15-AM17	135.1065	134.9737	507.0000	41.9180	21.8469	21.8469	23.9830	17.6343	17.6343	18.9390	39.4812	39.4812
AM17-AM19	134.9737	134.7075	619.0000	44.5150	21.5233	21.5233	24.5770	15.3983	15.3983	18.3090	36.9215	36.9215
AM21-AM19	134.7082	134.7075	446.0000	39.8230	15.3921	15.3921	20.0820	13.5563	13.5563	19.3460	28.9484	28.9484
AM23-AM25	134.1500	133.9131	525.0000	40.7170	0.0000	0.0000	21.1310	0.0000	0.0000	23.1200	0.0000	0.0000
AM25-AM27	133.9131	130.7995	645.0000	40.4040	11.0318	11.0318	24.2530	10.4295	10.4295	16.9080	21.4614	21.4614
BF3-BF5	129.1370	127.9873	655.0000	25.9400	5.1827	5.1827	11.2940	47.7682	47.7682	12.4160	52.9509	52.9509
BF5-BF7	127.9873	127.2402	595.0000	63.9900	28.6259	28.6259	47.5550	12.1628	12.1628	26.0500	40.7886	40.7886
BF7-BF9	127.2402	126.2521	607.0000	85.7940	27.1827	27.1827	49.1460	12.5014	12.5014	31.1600	39.6841	39.6841
BF9-BF11	126.2521	125.6990	479.0000	93.0920	31.3163	31.3163	53.0470	14.6360	14.6360	16.9610	45.9523	45.9523
BF4-BF2	125.8786	125.7071	768.0000	38.9850	6.5491	6.5491	23.1080	9.7599	9.7599	35.3190	16.3090	16.3090
BF63-BF61	126.6418	126.6419	40.0000	22.0000	5.0524	5.0524	22.0000	5.7741	5.7741	18.0000	10.8265	10.8265
E100	129.8836	128.6033	1206.0000	5002.2000	23.6343	23.6343	28.1000	1496.6748	1496.6748	30.1000	1520.3091	1520.3091
E131	125.2075	125.2866	475.0000	166.4500	57.0641	57.0641	31.3800	52.3426	52.3426	34.5700	109.4068	109.4068
DW AF4	134.9803	134.8739	33.0000	108.7480	28.8645	28.8645	108.7480	34.2186	34.2186	55.9210	63.0831	63.0831
ditch AM16	134.2808	133.7133	598.0000	53.1230	53.1230	53.1230	34.9630	17.8025	17.8025	32.3190	70.9255	70.9255

Table E15 - SPREADSHEET INFO LIST

Conduit Flow and Junction Depth Information for use in spreadsheets. The maximum values in this table are the true maximum values because they sample every time step. The values in the review results may only be the maximum of a subset of all the time steps in the run.

Note: These flows are only the flows in a single barrel.

Conduit Name	Maximum Flow (cfs)	Total Flow (ft^3)	Maximum Velocity (ft/s)	Maximum Volume (ft^3)	##	Junction Name	Invert Elevation (ft)	Maximum Elevation (ft)
A2-to-A4	6.2643	24235.5850	0.7820	1204.0228	##	A2	133.8400	137.0876
A4-to-A6	15.1684	59924.1915	1.8934	2407.1702	##	A4	133.7700	137.1353
A6-to-A8	25.1971	142963.0837	2.5162	2761.3368	##	A6	133.6200	136.8236
A8-to-A10	27.7954	159274.1759	2.7757	1255.5094	##	A10	133.4000	136.5825
A10-to-A12	29.9843	173751.3748	2.9946	3023.4010	##	A12	133.2500	136.1835
A12-to-A14	33.9025	193118.3860	3.3874	3512.9280	##	A14	133.0800	135.5763
A14-to-A16	37.2359	211294.5807	3.7317	1512.7286	##	C4	152.5400	153.1660
A16-AF4	35.0502	217442.0251	1.7825	15295.5926	##	C6	149.2800	150.0936

AF6-AF8	39.2682	266014.9812	2.1700	6552.6169	##	C8	136.5000	138.2570
AF8-AF10	20.8624	286877.1544	4.0574	387.6654	##	C1	154.9900	155.4622
AF10-AF12	41.3087	287048.9920	1.5281	7187.5418	##	C3	152.5400	153.1754
AF12-AF14	21.2561	298578.1537	4.3209	512.6339	##	C5	149.2800	150.0646
AF14-AF16	-40.5903	-298717.384	-0.9423	17187.3835	##	C7	139.0000	140.7771
AF16-AF18	-20.5983	-317870.233	-4.0256	643.3877	##	B10	121.7100	125.8575
AF18-AF20	40.2893	318127.2002	1.8832	9194.9632	##	B12	120.4400	125.8006
AF20-AF22	20.3709	330072.4460	5.3643	506.7033	##	B14	120.3200	125.8042
AF22-AF24	40.2144	329427.0528	0.8330	29898.9222	##	B16	120.1100	125.7189
AF24-AF26	-23.1882	-356633.451	-4.6986	363.4433	##	B18	119.9400	125.6530
AF26-AF28	68.7736	459869.4221	1.8904	28098.2566	##	B20	119.0600	125.6405
AF28-AF30	34.4220	495349.3666	6.9935	673.6128	##	B22	118.8600	125.6299
AF30-AF32	68.1673	495358.1071	2.1653	16419.9185	##	B24	118.1600	125.6292
AF32-AF34	35.1157	523467.7852	7.1301	692.1050	##	B26	118.0600	125.6280
AF34-AOUT	70.3418	524843.6996	2.3854	15485.7105	##	B28	117.8300	125.6257
AF36-AOUT	18.1190	173857.9800	1.1840	13871.9506	##	B30	117.7600	125.6234
AF38-AF36	11.2406	119944.4690	0.6011	51715.6064	##	B36	118.5300	125.5989
AF40-AF38	5.0817	41865.0950	0.6439	6558.9187	##	B38	118.6100	125.6797
C2-to-C4	2.8452	11800.4753	5.7546	22.2849	##	B40	121.0300	125.6788
C4-to-C6	4.8803	20276.8398	6.7172	41.6602	##	B-OUT	116.6600	125.2866
C6-to-C8	7.6688	31916.7616	7.8395	48.7965	##	B-M8	121.3500	125.8026
C8-to-A-M4	10.4565	43557.4761	5.7458	136.3350	##	A-F10	130.8000	133.9424
AM2-AM4	5.6370	24267.3764	1.8730	1059.5200	##	A-F12	130.4000	133.8935
AM4-AM6	18.8809	98992.4657	1.3040	14847.4826	##	A16	133.0000	135.3781
AM6-AM8	66.5914	407070.7718	2.3475	7145.5854	##	A-M8	132.5000	135.6136
AM8-AM12	73.6691	464262.0701	4.5782	19226.5999	##	A-M6	133.1000	135.8731
AM12-AM14	78.5854	545598.4006	1.3729	58423.7393	##	A-M4	135.7600	137.0593
AM14-AM16	84.1891	626464.2263	1.9594	60426.4168	##	A-M2	136.3500	137.3861
AM18-AM20	105.1378	1042026.354	5.8279	11338.9283	##	A-F4	131.4100	134.9803
AM20-AM24	110.5841	1122287.036	6.1377	5433.5940	##	A-F6	131.7800	134.8739
AM36-AM38	109.7811	1123193.926	6.0562	544.2882	##	A-F8	131.0000	133.9990
AM28-AM26	44.7730	281495.2716	3.5513	6276.0320	##	A-F14	130.3800	133.8284
AM30-AM28	30.3856	202778.1041	3.1498	4858.5646	##	A-F16	130.4800	133.7570
AM32-AM30	10.1113	14367.8458	3.1989	1825.0042	##	A-F18	130.7400	133.6668
AM3-AM5	18.6328	88306.2166	2.1646	4405.4658	##	A-F20	130.6700	133.5782
AM5-AM7	20.0115	97865.4252	1.6158	4498.0980	##	A-F22	129.6400	133.4728
AM9-AM7	0.0000	0.0000	0.0000	0.0000	##	A-F24	129.2600	133.3701
AM7-AM6	17.2972	185694.7433	3.4591	1711.5345	##	A-F26	129.8700	133.3079
AM11-AM13	-0.2246	-41.4223	0.1123	883.9489	##	A-F28	129.1800	132.6749
AM13-AM15	11.9550	70239.6879	1.0429	5617.6092	##	A-F30	129.0500	132.2060
AM15-AM17	19.9354	125956.6576	0.9867	13763.7298	##	A-F32	128.0000	131.3517
AM17-AM19	23.4827	180553.4248	1.3158	17269.6535	##	A-F34	127.7500	130.8346
AM19-AM16	35.0551	315137.9723	4.8716	1222.6703	##	A-OUT	122.6200	129.8836
AM21-AM19	-4.3927	-349.2820	0.4373	9306.0512	##	A-F36	127.5200	129.9322
AM23-AM25	0.0000	0.0000	0.0000	0.0000	##	A-F38	127.8400	129.9440
AM25-AM27	14.6753	77011.4999	1.4658	6467.9491	##	A-F40	128.3300	129.9856
AM27-AM37	31.3369	186704.1947	4.4023	585.4029	##	A-M12	131.5800	134.5690
AM26-AM38	99.7865	600962.8625	3.9817	757.0776	##	A-M14	131.5000	134.4680
C1-to-C3	2.8845	11917.4586	5.7656	22.9669	##	A-M16	128.5100	134.2808
C3-to-C5	5.0722	20799.1269	6.9150	39.5315	##	A-M18	127.9400	133.7133
C5-to-C7	7.8571	32641.2983	8.4024	38.0741	##	A-M20	127.3300	132.5458
C7-to-A-M3	12.1124	50352.9663	6.6477	87.1711	##	A-M26	122.7000	130.4643
AF35-AM31	5.2535	32189.8274	3.0816	153.5371	##	A-M28	123.8500	130.7348
AM33-AM31	6.0185	-9075.7671	3.3654	407.0871	##	A-M30	124.5500	131.0272
B14-to-B16	10.7792	32532.3792	1.4565	1037.4220	##	A-M32	125.4000	131.0063
B18-to-B20	14.2828	58741.6933	2.0126	1889.5913	##	A-M3	138.3500	139.4339
B26-to-B28	33.7634	151004.0809	2.6759	3029.9328	##	A-M5	134.6000	136.3829
B32-to-B34	44.3780	205306.2665	3.5124	988.0219	##	A-M7	133.4500	136.0949
B40-to-B38	1.7887	3517.1938	1.2907	265.3453	##	A-M9	136.0000	136.0000
B38-to-B36	19.5610	192685.2229	3.9573	385.9460	##	A-M11	135.5000	135.6550
BM2-BM4	10.9476	45169.4311	6.0598	492.8256	##	A-M13	134.6700	135.6545
BM4-BM6	56.9016	592236.0689	3.7533	3184.5174	##	A-M15	133.7200	135.1065
B2-BM6	5.5092	22879.0005	4.6761	196.2772	##	A-M17	133.0600	134.9737
BM8-B20	6.2698	19558.7748	3.5394	85.0834	##	A-M19	128.8400	134.7075

BM10-B26	-8.7942	15355.9873	-4.9139	59.0895	##	A-M21	134.0000	134.7082
BM12-B30	-14.4427	25798.0166	-8.0646	70.3965	##	A-M23	134.1500	134.1500
BF2-B38	17.9522	185496.8510	3.6303	154.3784	##	A-M25	133.0200	133.9131
BF3-BF5	18.1353	263768.7800	0.9884	13818.2314	##	A-M27	124.3000	130.7995
BF5-BF7	35.2899	479573.5769	1.2246	17290.6883	##	A-M24	127.0600	131.8641
BF7-BF9	58.5748	705601.1581	1.6816	21801.9391	##	A8	133.4800	136.7181
BF9-BF11	81.1085	991279.3204	2.1555	23883.7948	##	C2	154.9900	155.4588
BM16-BM14	24.5805	137298.3884	4.9886	442.5513	##	A-M31	124.8500	131.0722
BM18-BM16	15.4890	86766.8233	3.1439	2159.2421	##	A-M33	125.6000	130.4521
BM1-BM4	53.4076	536768.4503	4.9016	2766.4615	##	A11	125.8300	129.9969
BM3-BM1	11.0577	60766.3884	4.5730	296.4054	##	A-F35	125.6000	131.1541
BM9-BM52	-30.4127	95386.1954	-4.5649	577.9928	##	B4	123.2100	126.6032
BM11-BM18	6.6392	37739.0179	4.2725	366.2429	##	B6	122.2700	126.3424
AM24-AM36	108.9150	1122469.995	6.5895	6619.5593	##	B8	121.9800	126.0834
AM38-AOUT	198.0706	1723957.107	7.9032	1186.1026	##	B32	117.6200	125.6908
AM37-AM26	39.9614	227157.9165	5.6140	592.8131	##	B-F2	118.6600	125.7071
AM31-AM41	12.7855	64365.2108	2.7492	711.3750	##	B42	122.1400	126.7719
A11-AM35	-9.5743	-43839.2793	-5.3569	55.5760	##	B-M10	120.8500	126.2334
AM35-AM32	-7.5438	-27216.7083	-4.2003	342.8085	##	B-M12	120.4000	126.8150
AM39-AM28	6.9915	28724.3079	3.5452	283.1874	##	B34	117.4000	125.7530
AM41-AM30	18.1986	124928.0778	2.5636	652.0941	##	B-M9	119.7100	126.3169
BF20-BF22	8.8947	23947.3279	4.9625	122.2677	##	B-M52	119.5500	126.3562
BM6-BM26	61.7552	638792.1221	3.8588	3317.9007	##	B-F5	126.6000	127.9873
BM20-BM26	10.7447	44404.5760	3.3820	390.6572	##	B-F9	124.2200	126.2521
BM26-BM28	67.0740	683538.6846	4.1898	6869.2216	##	B-F7	125.4800	127.2402
BM28-BM30	67.0583	683704.0584	4.1886	8503.1599	##	A-M35	125.7800	130.1139
BM22-BM30	17.2654	73625.7455	3.4811	427.1135	##	B-M18	121.6100	126.8650
BM30-BM32	79.2804	757785.3827	4.9516	8469.8120	##	B-M14	120.7400	126.5777
BM32-BM34	79.2976	757750.4432	4.9540	9931.7625	##	B-F1	122.8400	129.5079
BM24-BM34	12.8185	51424.9779	4.0301	302.9933	##	B-F3	127.8800	129.1370
BF11-BM38	104.2005	2885963.218	2.9670	8207.2302	##	B-F11	117.2900	125.6990
BM38-BM36	105.6118	2914437.114	3.0076	7267.1096	##	B-M16	120.9600	126.6791
BM36-BM40	151.4636	3720750.301	4.3120	2105.7077	##	B2	123.1000	128.8396
BM40-BM42	175.4443	4057213.708	4.9911	2092.0144	##	B-M2	123.5900	130.9091
BM42-BOUT	206.9604	4470229.597	5.8958	3132.9696	##	B-M4	119.9800	128.9920
B34-BM42	44.8263	218346.7561	3.5474	988.0217	##	B-M6	119.6900	128.8527
B36-BM42	20.1532	195067.7630	4.3124	236.7136	##	B-M1	120.8000	129.1997
BM34-BM36	90.4802	808188.7574	5.6558	2417.5662	##	B-M3	124.0000	129.2731
BF4-BF2	5.9302	78074.4338	0.7586	8659.9773	##	B-M11	123.2300	127.0395
BM50-BM48	42.9055	338096.5949	4.4292	3010.2963	##	A-M36	123.0000	130.5354
BM48-BM40	47.1586	337332.1698	5.9258	294.1737	##	A-M38	122.6700	130.4783
BM52-BM50	26.0730	174471.0280	3.6598	904.0396	##	A-M37	124.1500	130.7819
BM14-BM50	17.9642	163179.2443	3.8171	1536.8052	##	A-M41	124.6900	131.0723
B42-BM16	7.6293	31569.9568	4.3023	109.2997	##	A-M39	126.1500	130.8117
BM45-BM46	-1.0797	2471.9706	0.9374	144.4979	##	B-F73	118.9800	126.9283
BM46-BM44	1.5226	4952.7871	1.0508	416.1990	##	B-F75	119.1300	126.9626
BM44-BM56	2.4400	10272.1421	1.3670	177.8439	##	B-F77	119.2500	127.1427
BM56-BM54	2.4303	10279.1603	1.3612	179.6963	##	B-F79	119.1600	126.9672
BM54-BM18	7.6503	34955.4527	2.4208	671.6201	##	B-F81	119.2200	126.9770
BM43-BM44	0.7143	2612.4030	0.8957	144.4982	##	B-F20	124.7200	129.9207
B44-BM54	5.6045	24637.7852	3.1397	55.5761	##	B-F22	124.5800	129.8531
BF63-BF61	4.0685	52248.0334	2.1381	731.4094	##	B-F71	118.3800	125.8617
BF61-BF59	7.6320	51839.1788	2.4230	345.8074	##	B-M26	119.4400	128.6833
BF59-BF57	7.8270	87248.6805	2.4858	543.4044	##	B-M20	122.3100	128.8124
BF57-BF55	8.0093	87114.9816	2.5448	332.6339	##	B-M28	118.9600	128.2387
BF55-BF53	-14.6018	1181.8151	-4.5749	395.2079	##	B-M30	118.3400	127.6577
BF53-BF51	14.3683	102242.6162	2.9075	1080.5483	##	B-M22	120.5100	127.7526
BF51-BF43	19.9848	168248.6995	4.0444	463.1319	##	B-M32	117.7300	126.8914
BF43-BF39	21.2984	185085.9405	4.3049	257.2845	##	B-M34	117.0200	126.0007
BF39-BF37	24.5821	224684.9388	4.9722	1029.1891	##	B-M24	119.7200	126.2242
BF37-BF35	41.1226	278597.7462	5.7729	740.9010	##	B-M38	117.0500	125.7661
BF35-BF33	46.5998	343793.7834	6.5561	926.2635	##	B-M36	116.8500	125.8314
BF33-BF77	63.1808	380918.2231	8.8798	703.9624	##	B-M40	116.7900	125.8939
BF77-BF81	57.5352	414156.0009	18.0349	98.8022	##	B-M42	116.7500	125.8171

BF79-BF75	148.7946	483911.2817	9.2616	807.8517	##	B-F65	123.0000	125.5000
BF75-BF19	74.7470	499474.5995	4.6551	2418.2104	##	B-F4	124.5000	125.8786
BF19-BF73	69.3841	536722.7401	4.3219	2421.0509	##	B-M50	118.8000	126.2229
BF73-BF17	67.6317	624095.3404	4.2134	4835.1835	##	B-M48	117.8800	125.9021
BF17-BF15	80.3413	971247.9543	5.0452	4840.8481	##	B-M45	122.6800	126.9900
BF15-BF13	78.9691	1001624.276	4.9241	4829.6406	##	B-M46	122.5600	126.9893
BF13-BF71	95.9214	1452591.776	5.9801	2753.1669	##	B-M44	122.2200	126.9803
BF45-BF41	2.5344	10495.4428	3.3745	71.2474	##	B-M56	122.0700	126.9640
BF41-BF39	6.6854	16503.8685	7.9774	54.1514	##	B-M54	121.9200	126.9480
BF49-BF47	2.5228	10451.3884	2.7236	80.4797	##	B-M43	122.3800	126.9813
BF47-BF43	-4.8938	17121.0595	3.2555	254.9954	##	B44	121.9600	126.9760
BF81-BF79	97.6609	450105.0198	6.0800	1773.3622	##	B-F63	123.3000	126.6418
BF71-BF67	107.9381	1587765.357	4.3675	4893.6601	##	B-F61	120.6200	127.0071
BF67-BF11	71.9222	1586886.209	2.0487	2087.5035	##	B-F59	120.5100	127.0161
BF22-BF25	8.9058	23975.3656	4.9774	177.8434	##	B-F57	120.3400	126.9305
BF23-BF25	17.5486	72669.5824	9.7996	158.8805	##	B-F55	120.2400	126.8829
BF25-BF27	44.5575	324050.4954	6.2841	1126.3449	##	B-F53	120.1200	127.3335
BF27-BF29	47.8291	415849.2762	4.0856	1330.5336	##	B-F51	119.9100	127.3405
BF29-BF31	47.8466	415964.4716	3.8918	1923.3492	##	B-F43	119.8200	127.3310
BF31-BM1	47.8650	416109.7828	3.7954	3991.6044	##	B-F39	119.7700	127.3235
BF21-BF25	40.3947	227108.0435	8.1816	411.6758	##	B-F37	119.5700	127.2682
BF1-BF27	13.5410	91791.6639	4.9236	339.6321	##	B-F35	119.4700	127.2462
E100	251.6301	2508637.102	2.3628	232219.2419	##	B-F33	119.3400	127.1928
E131	-362.0776	-4468735.03	-1.2963	161390.3948	##	B-F19	119.0600	126.9471
OF A-M16	45.2888	103308.7171	1.6692	833.1815	##	B-F17	118.8300	126.8690
OF A11	20.0765	84852.4309	2.2597	5495.8761	##	B-F15	118.6800	126.5638
D2-D1	11.4758	74609.7700	6.5336	211.0906	##	B-F13	118.5300	126.2350
D1-D3	14.4374	94737.5372	4.5753	464.3652	##	B-F45	129.0400	129.7088
D3-D5	21.9808	159244.7737	4.8916	725.5684	##	B-F41	122.4400	127.3287
D5-D7	29.2554	213993.9659	4.6705	1230.0839	##	B-F49	129.8400	130.6386
D7-D9	46.2301	324766.8551	4.0398	3438.3130	##	B-F47	122.0400	127.3636
D9-D11	52.7209	364779.7841	2.7306	2181.8817	##	B-F67	117.3500	126.3291
D11-D13	67.9570	456901.4131	3.4511	3005.2262	##	B-F21	123.0000	129.9463
D13-D15	76.8302	509944.6941	3.9015	3005.2305	##	B-F23	124.6500	129.9511
D15-D17	86.7925	565468.2199	4.4077	6298.6383	##	B-F25	122.8800	129.7518
D17-D19	97.9195	620798.3784	4.9705	2387.7186	##	B-F27	121.6400	129.4929
D19-D21	106.8679	666018.1593	5.4257	2367.1359	##	B-F29	121.4600	129.4382
D21-D23	114.9788	708061.5721	4.5886	2825.4749	##	B-F31	121.2500	129.3591
D23-D25	131.9500	795366.6288	5.2665	6304.7641	##	E100-OUT	122.0700	128.6033
D25-D27	145.4423	864035.0109	5.8063	6924.0166	##	E131-OUT	117.8500	125.2075
D27-D29	161.6131	946654.5024	6.4546	6540.1656	##	Node457	126.5000	126.5000
D29-D31	169.4907	987048.7195	6.7711	3096.8499	##	Node458	123.2600	126.6419
D31-D33	188.4942	1084156.406	6.2767	10623.5430	##	D2	122.5000	124.7746
D33-D35	206.2819	1174883.018	6.8725	7790.0916	##	D1	119.8800	124.2742
D35-D37	220.5959	1250121.961	6.1271	3871.1254	##	D3	119.2600	124.1031
D4-D3	5.2036	39419.9210	3.5777	170.3921	##	D5	117.9800	123.8483
D6-D5	3.8838	27560.2200	3.3917	161.1337	##	D7	116.8300	123.5980
D8-D7	6.5544	47366.8640	3.4242	263.4718	##	D9	115.9200	123.3868
D10-D9	2.5002	16612.1722	2.7922	138.9398	##	D11	115.8900	123.3444
D12-D11	5.2441	38103.7043	2.8049	385.9459	##	D13	115.8300	123.2325
D14-D13	3.1791	21965.2095	3.1184	138.9406	##	D15	115.7600	123.1167
D16-D15	3.7608	23591.2680	3.3706	138.9400	##	D17	115.1000	122.8410
D18-D17	4.4377	21795.7166	3.5629	138.9366	##	D19	115.0300	122.7091
D20-D19	3.5582	18238.9935	3.1026	138.9406	##	D21	114.9500	122.5638
D22-D21	3.3096	16925.0382	2.9231	138.9406	##	D23	114.8900	122.4380
D24-D23	7.5090	38524.5660	3.3343	370.5079	##	D25	114.7400	122.0680
D26-D25	6.3883	32881.7270	5.0242	128.7586	##	D27	114.5600	121.5584
D28-D27	7.7953	40124.4753	5.7293	128.5795	##	D29	114.3700	120.9479
D30-D29	4.5013	19744.7450	4.7561	128.3508	##	D31	114.2700	120.6217
D32-D31	11.3504	48019.4798	4.0086	365.3623	##	D33	114.0700	120.1673
D34-D33	11.3657	45157.5934	6.6320	224.0290	##	D35	112.9000	119.3616
D38-D36	3.8691	20224.9667	6.1633	26.4798	##	D4	120.3700	124.2767
D36-D35	8.4487	45617.5941	8.8727	113.1339	##	D6	119.7900	123.9555
F2-F4	2.7084	9013.3843	1.8941	1038.8293	##	D8	118.4600	123.6717

F4-F10	15.7212	72177.4615	2.3983	2954.5804	##	D10	119.0500	123.4772
F10-F12	23.1219	103599.4267	3.1222	3639.7396	##	D12	117.6500	123.4500
F12-F14	26.9424	121253.7841	4.2390	333.9027	##	D14	119.2600	123.3520
F14-F16	69.1986	507129.2109	3.3743	4238.3554	##	D16	120.1600	123.3006
F16-F18	80.5665	592433.1285	3.9439	5019.3009	##	D18	120.1600	123.1484
F18-F20	100.7409	746371.5793	4.1137	734.9868	##	D20	119.0200	122.9024
F20-F22	100.7312	746540.7945	6.2944	750.2792	##	D22	118.6000	122.7173
F22-F24	100.7305	745934.8459	4.1506	3579.5140	##	D24	117.1900	122.5214
F24-F26	109.4783	790684.4053	3.8167	5712.2710	##	D26	118.3600	122.3756
F26-F28	117.1251	829625.9616	4.1082	7104.4306	##	D28	118.3100	121.9368
F6-F8	2.5329	10496.4565	2.7276	80.6877	##	D30	118.1800	121.0653
F8-F10	3.8178	15790.1126	3.9981	35.9098	##	D32	116.6300	120.6883
F1-F3	21.7409	232966.4106	4.3907	2358.7454	##	D34	117.7900	120.0749
F3-F9	37.5537	340342.9520	5.2050	2098.2279	##	D38	120.5000	121.0784
F9-F11	43.5623	385862.8738	10.4481	156.2583	##	D36	118.7700	119.7633
F11-F14	43.5613	385841.0039	11.9618	512.9546	##	D37	112.8500	118.8500
F5-F7	2.5332	10496.4417	2.7277	80.6889	##	F2	119.5200	121.3670
F7-F3	3.8481	15943.1820	4.0083	36.1006	##	F4	118.5200	121.3349
F13-F16	8.2700	69715.7888	9.9287	184.6357	##	F10	118.2200	121.2819
F15-F18	13.7618	120505.8218	10.4935	209.0254	##	F12	117.8800	121.1855
F17-F24	6.2205	31941.7955	7.5380	134.2084	##	F14	115.5800	121.1746
F19-F26	5.4360	28308.7517	3.9012	103.8656	##	F16	115.5200	121.0352
F21-F28	3.4967	16472.1363	3.3948	76.5255	##	F18	114.9200	120.8068
OF AM33	9.3667	30989.0258	1.7949	1527.0366	##	F20	111.7300	120.7810
OF B36	0.0000	0.0000	0.0000	47.9143	##	F22	111.7300	120.6669
OF B34	0.0000	0.0000	0.0000	58.6928	##	F24	114.3300	120.5328
OF BF20	-8.9274	-22114.0623	-1.5477	6660.7854	##	F26	114.2700	120.3929
OF BM11	6.3121	7407.8175	1.6867	920.1373	##	F6	124.0700	124.8702
AM5-AM5B	3.4991	47009.4398	0.9349	463.4120	##	F8	122.0500	122.8538
338.1	-20.2196	-264002.751	-4.0957	512.3346	##	F1	122.0700	124.8780
DW AF4	2.6944	1543.1525	0.8104	109.6064	##	F3	120.0000	122.2977
ss AM16	93.4277	850566.6125	5.1726	10825.4064	##	F9	119.6600	121.3275
ditch AM16	25.7712	116357.4546	0.7966	19317.9483	##	F11	119.3300	121.1243
SS B4	-4.2335	5511.5504	3.1149	242.0943	##	F5	124.3100	125.1102
RD B4	0.0000	0.0000	0.0000	0.0000	##	F7	122.2900	123.0972
SS B6	-6.0331	10741.5554	2.1790	444.6089	##	F13	121.0100	121.7715
RD B6	0.0000	0.0000	0.0000	0.0000	##	F15	120.3200	121.4578
SS B8	6.4176	15673.7115	2.5714	444.6098	##	F17	120.9900	121.5506
RD B8	0.0000	0.0000	0.0000	0.0000	##	F19	121.6900	122.6124
SS B10	8.5410	21089.7581	3.2735	683.6838	##	F21	121.5700	122.3048
RD B10	0.0000	0.0000	0.0000	0.0000	##	F28	114.1900	120.1900
SS B12	10.5389	29146.2120	1.6102	592.8130	##	A-M5B	134.6000	136.3768
RD B12	0.0000	0.0000	0.0000	0.0000	##			
SS B16	11.0671	45470.4415	1.5601	815.1179	##			
RD B16	0.0000	0.0000	0.0000	0.0000	##			
SS B20	17.6895	84428.1456	1.8314	1361.6177	##			
RD B20	0.0000	0.0000	0.0000	502.5577	##			
SS B22	20.6659	87129.0854	2.1371	1311.1868	##			
RD B22	2.7269	6992.7689	0.4980	1170.8125	##			
SS B24	32.9649	111580.2658	2.6107	1251.4944	##			
RD B24	4.8198	-8891.9595	1.1421	855.0594	##			
SS B28	35.2088	153566.2747	2.7886	988.0215	##			
RD B28	3.1755	7802.3726	0.3529	675.0469	##			
SS B30	42.0935	196831.1239	3.3318	1778.4390	##			
RD B30	1.2755	139.4635	0.4672	1073.9565	##			
ss bf63	46.2776	2756810.985	9.4127	1357.2567	##			
rd bf63	0.0000	0.0000	0.0000	0.0009	##			
rect-orif	4.0409	51898.7450	8.3004	258.1428	##			
underHWY6	31.6356	182845.4706	0.0000	0.0000	##			
WEIR BF23	14.7555	34088.1194	0.0000	0.0000	##			
FREE # 1	138.9619	2757490.560	0.0000	0.0000	##			
FREE # 2	251.6268	2508723.966	0.0000	0.0000	##			
FREE # 3	362.1439	4468841.752	0.0000	0.0000	##			
FREE # 4	31.6356	182859.8504	0.0000	0.0000	##			

FREE # 5	223.1105	1264940.807	0.0000	0.0000	##
FREE # 6	121.9128	852675.7036	0.0000	0.0000	##
FREE # 7	6.9990	47009.6542	0.0000	0.0000	##

Table E15a - SPREADSHEET REACH LIST
Peak flow and Total Flow listed by Reach or those conduits or diversions having the same upstream and downstream nodes.

Upstream Node	Downstream Node	Maximum Flow (cfs)	Total Flow (ft^3)
A2	A4	6.2643	24235.5850
A4	A6	15.1684	59924.1915
A6	A8	25.1971	142963.084
A8	A10	27.7954	159274.176
A10	A12	29.9843	173751.375
A12	A14	33.9025	193118.386
A14	A16	37.2359	211294.581
A16	A-F4	35.0502	217442.025
A-F6	A-F8	39.2682	266014.981
A-F8	A-F10	41.7247	286877.154
A-F10	A-F12	41.3087	287048.992
A-F12	A-F14	42.5122	298578.154
A-F16	A-F14	40.5903	298717.384
A-F18	A-F16	41.1966	317870.233
A-F18	A-F20	40.2893	318127.200
A-F20	A-F22	40.7418	330072.446
A-F22	A-F24	40.2144	329427.053
A-F26	A-F24	46.3764	356633.451
A-F26	A-F28	68.7736	459869.422
A-F28	A-F30	68.8440	495349.367
A-F30	A-F32	68.1673	495358.107
A-F32	A-F34	70.2313	523467.785
A-F34	A-OUT	70.3418	524843.700
A-F36	A-OUT	18.1190	173857.980
A-F38	A-F36	11.2406	119944.469
A-F40	A-F38	5.0817	41865.0950
C2	C4	2.8452	11800.4753
C4	C6	4.8803	20276.8398
C6	C8	7.6688	31916.7616
C8	A-M4	10.4565	43557.4761
A-M2	A-M4	5.6370	24267.3764
A-M4	A-M6	18.8809	98992.4657
A-M6	A-M8	66.5914	407070.772
A-M8	A-M12	73.6691	464262.070
A-M12	A-M14	78.5854	545598.401
A-M14	A-M16	84.1891	626464.226
A-M18	A-M20	105.1378	1042026.35
A-M20	A-M24	110.5841	1122287.04
A-M36	A-M38	109.7811	1123193.93
A-M28	A-M26	44.7730	281495.272
A-M30	A-M28	30.3856	202778.104
A-M32	A-M30	10.1113	14367.8458
A-M3	A-M5	18.6328	88306.2166
A-M5	A-M7	20.0115	97865.4252
A-M7	A-M6	34.5944	185694.743
A-M11	A-M13	-0.2246	-41.4223
A-M13	A-M15	11.9550	70239.6879
A-M15	A-M17	19.9354	125956.658
A-M17	A-M19	23.4827	180553.425
A-M19	A-M16	35.0551	315137.972
A-M21	A-M19	-4.3927	-349.2820
A-M25	A-M27	14.6753	77011.4999
A-M27	A-M37	31.3369	186704.195
A-M26	A-M38	99.7865	600962.862
C1	C3	2.8845	11917.4586

C3	C5	5.0722	20799.1269
C5	C7	7.8571	32641.2983
C7	A-M3	12.1124	50352.9663
A-F35	A-M31	5.2535	32189.8274
A-M33	A-M31	6.0185	-9075.7671
B14	B16	10.7792	32532.3792
B18	B20	14.2828	58741.6933
B26	B28	33.7634	151004.081
B32	B34	44.3780	205306.267
B40	B38	1.7887	3517.1938
B38	B36	19.5610	192685.223
B-M2	B-M4	10.9476	45169.4311
B-M4	B-M6	56.9016	592236.069
B2	B-M6	5.5092	22879.0005
B-M8	B20	6.2698	19558.7748
B-M10	B26	-8.7942	15355.9873
B-M12	B30	-14.4427	25798.0166
B-F2	B38	17.9522	185496.851
B-F3	B-F5	18.1353	263768.780
B-F5	B-F7	35.2899	479573.577
B-F7	B-F9	58.5748	705601.158
B-F9	B-F11	81.1085	991279.320
B-M16	B-M14	24.5805	137298.388
B-M18	B-M16	15.4890	86766.8233
B-M1	B-M4	53.4076	536768.450
B-M3	B-M1	11.0577	60766.3884
B-M9	B-M52	-30.4127	95386.1954
B-M11	B-M18	6.6392	37739.0179
A-M24	A-M36	108.9150	1122470.00
A-M38	A-OUT	198.0706	1723957.11
A-M37	A-M26	39.9614	227157.917
A-M31	A-M41	12.7855	64365.2108
A11	A-M35	-9.5743	-43839.279
A-M35	A-M32	-7.5438	-27216.708
A-M39	A-M28	6.9915	28724.3079
A-M41	A-M30	18.1986	124928.078
B-F20	B-F22	8.8947	23947.3279
B-M6	B-M26	61.7552	638792.122
B-M20	B-M26	10.7447	44404.5760
B-M26	B-M28	67.0740	683538.685
B-M28	B-M30	67.0583	683704.058
B-M22	B-M30	17.2654	73625.7455
B-M30	B-M32	79.2804	757785.383
B-M32	B-M34	79.2976	757750.443
B-M24	B-M34	12.8185	51424.9779
B-F11	B-M38	208.4009	2885963.22
B-M38	B-M36	211.2237	2914437.11
B-M36	B-M40	302.9272	3720750.30
B-M40	B-M42	350.8887	4057213.71
B-M42	B-OUT	413.9208	4470229.60
B34	B-M42	44.8263	218346.756
B36	B-M42	20.1532	195067.763
B-M34	B-M36	90.4802	808188.757
B-F4	B-F2	5.9302	78074.4338
B-M50	B-M48	42.9055	338096.595
B-M48	B-M40	47.1586	337332.170
B-M52	B-M50	26.0730	174471.028
B-M14	B-M50	17.9642	163179.244
B42	B-M16	7.6293	31569.9568
B-M45	B-M46	-1.0797	2471.9706
B-M46	B-M44	1.5226	4952.7871
B-M44	B-M56	2.4400	10272.1421
B-M56	B-M54	2.4303	10279.1603
B-M54	B-M18	7.6503	34955.4527

B-M43	B-M44	0.7143	2612.4030
B44	B-M54	5.6045	24637.7852
B-F63	Node458	4.0685	52248.0334
B-F61	B-F59	7.6320	51839.1788
B-F59	B-F57	7.8270	87248.6805
B-F57	B-F55	8.0093	87114.9816
B-F55	B-F53	-14.6018	1181.8151
B-F53	B-F51	14.3683	102242.616
B-F51	B-F43	19.9848	168248.700
B-F43	B-F39	21.2984	185085.940
B-F39	B-F37	24.5821	224684.939
B-F37	B-F35	41.1226	278597.746
B-F35	B-F33	46.5998	343793.783
B-F33	B-F77	63.1808	380918.223
B-F77	B-F81	57.5352	414156.001
B-F79	B-F75	148.7946	483911.282
B-F75	B-F19	74.7470	499474.600
B-F19	B-F73	69.3841	536722.740
B-F73	B-F17	67.6317	624095.340
B-F17	B-F15	80.3413	971247.954
B-F15	B-F13	78.9691	1001624.28
B-F13	B-F71	95.9214	1452591.78
B-F45	B-F41	2.5344	10495.4428
B-F41	B-F39	6.6854	16503.8685
B-F49	B-F47	2.5228	10451.3884
B-F47	B-F43	-4.8938	17121.0595
B-F81	B-F79	97.6609	450105.020
B-F71	B-F67	107.9381	1587765.36
B-F67	B-F11	143.8444	1586886.21
B-F22	B-F25	8.9058	23975.3656
B-F23	B-F25	17.5486	72669.5824
B-F25	B-F27	44.5575	324050.495
B-F27	B-F29	47.8291	415849.276
B-F29	B-F31	47.8466	415964.472
B-F31	B-M1	47.8650	416109.783
B-F21	B-F25	40.3947	227108.044
B-F1	B-F27	13.5410	91791.6639
A-OUT	E100-OUT	251.6301	2508637.10
E131-OUT	B-OUT	362.0776	4468735.03
A-M16	A-F26	45.2888	103308.717
A11	B-F23	20.0765	84852.4309
D2	D1	11.4758	74609.7700
D1	D3	14.4374	94737.5372
D3	D5	21.9808	159244.774
D5	D7	29.2554	213993.966
D7	D9	46.2301	324766.855
D9	D11	52.7209	364779.784
D11	D13	67.9570	456901.413
D13	D15	76.8302	509944.694
D15	D17	86.7925	565468.220
D17	D19	97.9195	620798.378
D19	D21	106.8679	666018.159
D21	D23	114.9788	708061.572
D23	D25	131.9500	795366.629
D25	D27	145.4423	864035.011
D27	D29	161.6131	946654.502
D29	D31	169.4907	987048.719
D31	D33	188.4942	1084156.41
D33	D35	206.2819	1174883.02
D35	D37	220.5959	1250121.96
D4	D3	5.2036	39419.9210
D6	D5	3.8838	27560.2200
D8	D7	6.5544	47366.8640
D10	D9	2.5002	16612.1722

D12	D11	5.2441	38103.7043
D14	D13	3.1791	21965.2095
D16	D15	3.7608	23591.2680
D18	D17	4.4377	21795.7166
D20	D19	3.5582	18238.9935
D22	D21	3.3096	16925.0382
D24	D23	7.5090	38524.5660
D26	D25	6.3883	32881.7270
D28	D27	7.7953	40124.4753
D30	D29	4.5013	19744.7450
D32	D31	11.3504	48019.4798
D34	D33	11.3657	45157.5934
D38	D36	3.8691	20224.9667
D36	D35	8.4487	45617.5941
F2	F4	2.7084	9013.3843
F4	F10	15.7212	72177.4615
F10	F12	23.1219	103599.427
F12	F14	26.9424	121253.784
F14	F16	69.1986	507129.211
F16	F18	80.5665	592433.128
F18	F20	100.7409	746371.579
F20	F22	100.7312	746540.794
F22	F24	100.7305	745934.846
F24	F26	109.4783	790684.405
F26	F28	117.1251	829625.962
F6	F8	2.5329	10496.4565
F8	F10	3.8178	15790.1126
F1	F3	21.7409	232966.411
F3	F9	37.5537	340342.952
F9	F11	43.5623	385862.874
F11	F14	43.5613	385841.004
F5	F7	2.5332	10496.4417
F7	F3	3.8481	15943.1820
F13	F16	8.2700	69715.7888
F15	F18	13.7618	120505.822
F17	F24	6.2205	31941.7955
F19	F26	5.4360	28308.7517
F21	F28	3.4967	16472.1363
A-M33	A11	9.3667	30989.0258
B-F20	A-F38	-8.9274	-22114.062
B-M11	B-F73	6.3121	7407.8175
A-M5	A-M5B	6.9982	47009.4398
A-F6	A-F4	40.5288	265545.903
A-M16	A-M18	100.7705	966924.067
B4	B6	-4.2335	5511.5504
B6	B8	-6.0331	10741.5554
B8	B10	6.4176	15673.7115
B10	B12	8.5410	21089.7581
B12	B14	10.5389	29146.2120
B16	B18	11.0671	45470.4415
B20	B22	17.6895	84428.1456
B22	B24	20.6659	94121.8543
B24	B26	33.2684	120472.225
B28	B30	35.2088	161368.647
B30	B32	42.0935	196691.660
B-F63	B-F65	138.8328	2756810.99
Node458	B-F61	4.0409	51898.7450
B-F55	Node457	31.6356	182845.471
B-F23	B-F21	14.7555	34088.1194

Table E19 - Junction Inflow & Outflow Listing
Units are either ft^3 or m^3 depending on the units in your model.

Constant	User	Interface	DWF	Inflow	RNF Layer	Inflow

Junction Name	Inflow to Node	Inflow to Node	Inflow to Node	Inlow to Node	through Outfall	Inflow to Node	Outflow from Node	Evaporation from Node	from 2D Layer
A2	0.0000	24201.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
A4	0.0000	35577.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
A6	0.0000	82957.5750	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
A10	0.0000	14445.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
A12	0.0000	19251.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
A14	0.0000	18135.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
C4	0.0000	8469.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
C6	0.0000	11628.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
C8	0.0000	11628.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
C1	0.0000	11916.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
C3	0.0000	8874.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
C5	0.0000	11826.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
C7	0.0000	17703.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
B10	0.0000	5400.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
B12	0.0000	8010.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
B14	0.0000	3366.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
B16	0.0000	12924.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
B18	0.0000	13266.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
B20	0.0000	5904.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
B22	0.0000	9486.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
B24	0.0000	26577.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
B26	0.0000	12915.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
B28	0.0000	7794.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
B30	0.0000	8622.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
B36	0.0000	2124.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
B38	0.0000	3699.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
B40	0.0000	3528.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
B-M8	0.0000	19566.0500	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
A-F12	0.0000	11736.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
A16	0.0000	5085.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
A-M8	0.0000	57033.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
A-M6	0.0000	122121.0500	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
A-M4	0.0000	29470.5250	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
A-M2	0.0000	24237.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
A-F4	0.0000	49032.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
A-F8	0.0000	20925.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
A-F16	0.0000	19458.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
A-F20	0.0000	12537.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
A-F24	0.0000	29520.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
A-F28	0.0000	35289.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
A-F32	0.0000	28116.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
A-OUT	0.0000	84258.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
A-F36	0.0000	51363.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
A-F38	0.0000	99783.1000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
A-F40	0.0000	41355.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
A-M12	0.0000	79740.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
A-M14	0.0000	80100.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
A-M16	0.0000	124353.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
A-M18	0.0000	72720.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
A-M20	0.0000	80361.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
A-M26	0.0000	91854.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
A-M28	0.0000	50013.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
A-M30	0.0000	63126.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
A-M32	0.0000	41589.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
A-M3	0.0000	37773.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
A-M5	0.0000	55998.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
A-M7	0.0000	87903.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
A-M13	0.0000	69588.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
A-M15	0.0000	54891.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
A-M17	0.0000	55989.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
A-M19	0.0000	131895.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
A-M25	0.0000	78138.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
A-M27	0.0000	103887.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	

A8	0.0000	16272.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
C2	0.0000	11799.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
A-M31	0.0000	41202.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
A-M33	0.0000	18963.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
A11	0.0000	10188.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
A-F35	0.0000	32215.5250	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
B4	0.0000	5472.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
B6	0.0000	5220.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
B8	0.0000	4905.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
B32	0.0000	3042.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
B-F2	0.0000	107172.4500	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
B42	0.0000	31608.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
B-M10	0.0000	15363.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
B-M12	0.0000	25884.0500	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
B34	0.0000	12942.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
B-M9	0.0000	94392.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
B-M52	0.0000	79011.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
B-F5	0.0000	216315.8500	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
B-F9	0.0000	289197.9000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
B-F7	0.0000	227565.3000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
A-M35	0.0000	16614.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
B-M18	0.0000	13990.5250	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
B-M14	0.0000	26037.0500	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
B-F1	0.0000	91669.5250	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
B-F3	0.0000	264668.9250	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
B-F11	0.0000	309205.2500	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
B-M16	0.0000	18873.0500	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
B2	0.0000	22851.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
B-M2	0.0000	45279.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
B-M4	0.0000	9675.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
B-M6	0.0000	23454.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
B-M1	0.0000	60048.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
B-M3	0.0000	60858.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
B-M11	0.0000	42174.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
A-M37	0.0000	40491.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
A-M41	0.0000	60525.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
A-M39	0.0000	28764.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
B-F73	0.0000	77103.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
B-F75	0.0000	16506.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
B-F77	0.0000	34560.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
B-F20	0.0000	1476.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
B-F71	0.0000	134474.0750	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
B-M20	0.0000	44415.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
B-M22	0.0000	73611.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
B-M24	0.0000	51417.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
B-M38	0.0000	30330.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
B-F65	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2.7575E+06	0.0000
B-F4	0.0000	79074.4500	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
B-M45	0.0000	2466.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
B-M46	0.0000	2466.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
B-M44	0.0000	2691.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
B-M43	0.0000	2610.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
B44	0.0000	24498.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
B-F63	0.0000	2.8162E+06	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
B-F59	0.0000	35541.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
B-F55	0.0000	97002.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
B-F53	0.0000	101142.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
B-F51	0.0000	66312.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
B-F39	0.0000	23517.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
B-F37	0.0000	52551.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
B-F35	0.0000	66078.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
B-F33	0.0000	19746.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
B-F19	0.0000	37800.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
B-F17	0.0000	347323.7750	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

B-F15	0.0000	30847.5250	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
B-F13	0.0000	451378.0750	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
B-F45	0.0000	10494.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
B-F41	0.0000	6003.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
B-F49	0.0000	10449.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
B-F47	0.0000	6669.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
B-F21	0.0000	194085.2500	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
B-F23	0.0000	19377.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
E100-OUT	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2.5087E+06	0.0000
E131-OUT	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	4.4688E+06	0.0000
Node457	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	182859.8504	0.0000
D2	0.0000	74362.5250	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
D1	0.0000	20061.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
D3	0.0000	25110.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
D5	0.0000	27189.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
D7	0.0000	63369.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
D9	0.0000	23130.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
D11	0.0000	54081.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
D13	0.0000	30969.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
D15	0.0000	31734.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
D17	0.0000	33354.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
D19	0.0000	26874.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
D21	0.0000	25002.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
D23	0.0000	48555.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
D25	0.0000	35496.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
D27	0.0000	42201.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
D29	0.0000	20430.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
D31	0.0000	48825.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
D33	0.0000	45108.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
D35	0.0000	29223.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
D4	0.0000	39433.5250	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
D6	0.0000	27567.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
D8	0.0000	47380.5250	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
D10	0.0000	16614.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
D12	0.0000	38110.5250	0.0000	0.0000	0.0000	0.0000	1.4844	0.0000
D14	0.0000	21969.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
D16	0.0000	23589.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
D18	0.0000	21798.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
D20	0.0000	18243.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
D22	0.0000	16929.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
D24	0.0000	38520.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
D26	0.0000	32886.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
D28	0.0000	40131.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
D30	0.0000	19746.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
D32	0.0000	48015.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
D34	0.0000	45153.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
D38	0.0000	20223.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
D36	0.0000	25407.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
D37	0.0000	14724.0000	0.0000	0.0000	0.5368	0.0000	1.2649E+06	0.0000
F2	0.0000	9009.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
F4	0.0000	63018.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
F10	0.0000	15381.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
F12	0.0000	17541.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
F16	0.0000	15822.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
F18	0.0000	32445.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
F24	0.0000	12789.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
F26	0.0000	10305.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
F6	0.0000	10494.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
F8	0.0000	5292.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
F1	0.0000	233060.1250	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
F3	0.0000	91435.5250	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
F9	0.0000	45526.5250	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
F5	0.0000	10494.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
F7	0.0000	5445.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

F13	0.0000	69723.0500	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
F15	0.0000	120514.6250	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
F17	0.0000	31941.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
F19	0.0000	28305.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
F21	0.0000	16470.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
F28	0.0000	6165.0000	0.0000	0.0000	0.1053	0.0000	852675.7036	0.0000
A-M5B	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	47009.6542	0.0000

Table E20 - Junction Flooding and Volume Listing. The maximum volume is the total volume in the node including the volume in the flooded storage area. This is the max volume at any time. The volume in the flooded storage area is the total volume above the ground elevation, where the flooded pond storage area starts. The fourth column is instantaneous, the fifth is the sum of the flooded volume over the entire simulation. Units are either ft^3 or m^3 depending on the units.

Junction Name	Surcharged Time (min)	Flooded Time(min)	Out of 1D-System (Flooded Volume)	Maximum Volume	Passed to 2D cell OR Volume Stored in allowed Flood Pond of 1D-System
A2	41.8556	0.0000	0.0000	40.8161	0.0000
A4	44.4759	0.0000	0.0000	42.2914	0.0000
A6	49.4625	0.0000	0.0000	40.2611	0.0000
A10	55.8012	0.0000	0.0000	40.0379	0.0000
A12	58.6310	0.0000	0.0000	36.8461	0.0000
A14	59.4917	0.0000	0.0000	31.3686	0.0000
C4	0.0000	0.0000	0.0000	7.8666	0.0000
C6	0.0000	0.0000	0.0000	10.2234	0.0000
C8	0.0000	0.0000	0.0000	22.0777	0.0000
C1	0.0000	0.0000	0.0000	5.9334	0.0000
C3	0.0000	0.0000	0.0000	7.9840	0.0000
C5	0.0000	0.0000	0.0000	9.8588	0.0000
C7	0.0000	0.0000	0.0000	22.3314	0.0000
B10	0.0000	0.0000	0.0000	52.1175	0.0000
B12	0.0000	0.0000	0.0000	67.3628	0.0000
B14	0.0000	0.0000	0.0000	68.9157	0.0000
B16	0.0000	0.0000	0.0000	70.4813	0.0000
B18	0.0000	0.0000	0.0000	71.7893	0.0000
B20	0.0000	0.0000	0.0000	82.6900	0.0000
B22	37.3333	0.0000	0.0000	85.0710	0.0000
B24	86.2229	0.0000	0.0000	93.8577	0.0000
B26	53.9042	14.5268	0.0000	236.7471	320.5711
B28	28.0625	0.0000	0.0000	97.9609	0.0000
B30	61.3514	30.5139	0.0000	158.3834	1210.5563
B36	0.0000	0.0000	0.0000	88.8278	0.0000
B38	196.8167	0.0000	0.0000	88.8371	0.0000
B40	186.9583	0.0000	0.0000	58.4170	0.0000
B-OUT	0.0000	0.0000	0.0000	108.4015	0.0000
B-M8	175.3000	0.0000	0.0000	55.4738	0.0000
A-F10	0.0000	0.0000	0.0000	39.4875	0.0000
A-F12	0.0000	0.0000	0.0000	43.8988	0.0000
A16	0.0000	0.0000	0.0000	29.8830	0.0000
A-M8	0.0000	0.0000	0.0000	39.1251	0.0000
A-M6	0.0000	0.0000	0.0000	34.8473	0.0000
A-M4	0.0000	0.0000	0.0000	16.3275	0.0000
A-M2	15.9286	0.0000	0.0000	13.0193	0.0000
A-F4	0.0000	0.0000	0.0000	44.8643	0.0000
A-F6	0.0000	0.0000	0.0000	38.8777	0.0000
A-F8	93.4500	0.0000	0.0000	37.6849	0.0000
A-F14	82.7500	0.0000	0.0000	43.3323	0.0000
A-F16	55.8125	0.0000	0.0000	41.1787	0.0000
A-F18	41.4542	0.0000	0.0000	36.7785	0.0000
A-F20	37.7458	28.1250	0.0000	442.0647	1049.6993
A-F22	95.0417	0.0000	0.0000	48.1629	0.0000
A-F24	119.5056	24.2917	0.0000	413.7865	1542.8035
A-F26	0.0000	0.0000	0.0000	43.2003	0.0000
A-F28	0.0000	0.0000	0.0000	43.9166	0.0000

A-F30	28.0667	0.0000	0.0000	39.6578	0.0000
A-F32	48.3125	0.0000	0.0000	42.1174	0.0000
A-F34	0.0000	0.0000	0.0000	38.7609	0.0000
A-OUT	0.0000	0.0000	0.0000	91.2741	0.0000
A-F36	0.0000	0.0000	0.0000	30.3120	0.0000
A-F38	0.0000	0.0000	0.0000	26.4384	0.0000
A-F40	65.4333	0.0000	0.0000	20.8043	0.0000
A-M12	0.0000	0.0000	0.0000	37.5595	0.0000
A-M14	0.0000	0.0000	0.0000	37.2964	0.0000
A-M16	0.0000	0.0000	0.0000	72.5161	0.0000
A-M18	25.2083	0.0000	0.0000	72.5477	0.0000
A-M20	132.5750	0.0000	0.0000	65.5564	0.0000
A-M26	178.3833	0.0000	0.0000	97.5967	0.0000
A-M28	177.0792	0.0000	0.0000	86.5255	0.0000
A-M30	174.8667	0.0000	0.0000	81.3924	0.0000
A-M32	189.2333	0.0000	0.0000	70.4483	0.0000
A-M3	0.0000	0.0000	0.0000	13.6198	0.0000
A-M5	0.0000	0.0000	0.0000	22.4035	0.0000
A-M7	0.0000	0.0000	0.0000	33.2362	0.0000
A-M9	0.0000	0.0000	0.0000	0.0000	0.0000
A-M11	0.0000	0.0000	0.0000	1.9475	0.0000
A-M13	0.0000	0.0000	0.0000	12.3710	0.0000
A-M15	0.0000	0.0000	0.0000	17.4234	0.0000
A-M17	70.6667	7.0375	0.0000	42.3334	376.4553
A-M19	115.4000	0.0000	0.0000	73.7306	0.0000
A-M21	0.0000	0.0000	0.0000	8.8998	0.0000
A-M23	0.0000	0.0000	0.0000	0.0000	0.0000
A-M25	0.0000	0.0000	0.0000	11.2222	0.0000
A-M27	0.0000	0.0000	0.0000	81.6731	0.0000
A-M24	121.9194	0.0000	0.0000	60.4220	0.0000
A8	53.2708	0.0000	0.0000	40.7321	0.0000
C2	0.0000	0.0000	0.0000	5.8905	0.0000
A-M31	179.2296	22.9479	0.0000	451.7360	422.7303
A-M33	0.0000	0.0000	0.0000	60.9715	0.0000
A11	0.0000	0.0000	0.0000	52.3614	0.0000
A-F35	195.8000	33.8958	0.0000	900.8466	960.2768
B4	0.0000	0.0000	0.0000	42.6396	0.0000
B6	0.0000	0.0000	0.0000	51.1741	0.0000
B8	0.0000	0.0000	0.0000	51.5633	0.0000
B32	0.0000	0.0000	0.0000	101.4178	0.0000
B-F2	24.6875	0.0000	0.0000	88.5543	0.0000
B42	150.1333	0.0000	0.0000	58.2040	0.0000
B-M10	192.3611	0.1083	0.0000	73.0904	7.1812
B-M12	209.9403	0.2667	0.0000	89.2849	29.4048
B34	0.0000	0.0000	0.0000	104.9715	0.0000
B-M9	181.0000	0.0000	0.0000	71783.2415	0.0000
B-M52	186.9625	0.0000	0.0000	85.5372	0.0000
B-F5	0.0000	0.0000	0.0000	17.4331	0.0000
B-F9	0.0000	0.0000	0.0000	25.5354	0.0000
B-F7	0.0000	0.0000	0.0000	22.1188	0.0000
A-M35	193.1000	0.0000	0.0000	54.4603	0.0000
B-M18	134.1000	0.0000	0.0000	66.0346	0.0000
B-M14	165.1167	0.0000	0.0000	18591.0248	0.0000
B-F1	143.5565	7.7179	0.0000	123.6155	2.1914
B-F3	114.3000	0.0000	0.0000	10032.3937	0.0000
B-F11	60.2604	0.0000	0.0000	51656.1097	0.0000
B-M16	156.5417	0.0000	0.0000	71.8666	0.0000
B2	139.4622	46.6917	0.0000	1919.3825	2051.0980
B-M2	142.7583	0.0000	0.0000	91.9735	0.0000
B-M4	156.5333	0.0000	0.0000	113.2480	0.0000
B-M6	149.3958	0.0000	0.0000	115.1395	0.0000
B-M1	125.2208	0.0000	0.0000	105.5508	0.0000
B-M3	121.6696	0.0000	0.0000	66.2612	0.0000
B-M11	0.0000	0.0000	0.0000	47.8698	0.0000

A-M36	228.7444	0.0000	0.0000	94.6900	0.0000
A-M38	178.9708	0.0000	0.0000	97.5940	0.0000
A-M37	192.4958	0.0000	0.0000	83.2754	0.0000
A-M41	181.3208	0.0000	0.0000	80.1996	0.0000
A-M39	171.9958	0.0000	0.0000	58.5700	0.0000
B-F73	116.7292	0.0000	0.0000	4266.4880	0.0000
B-F75	209.7380	0.0000	0.0000	6538.2718	0.0000
B-F77	222.1716	0.0000	0.0000	29544.8527	0.0000
B-F79	208.7859	108.9808	0.0000	3069.4563	8505.9894
B-F81	208.0446	115.4315	0.0000	3147.7741	8847.4506
B-F20	0.0000	0.0000	0.0000	10780.0363	0.0000
B-F22	132.1292	0.0000	0.0000	66.2640	0.0000
B-F71	162.0312	0.0000	0.0000	56689.1943	0.0000
B-M26	165.6750	44.2417	0.0000	116.1513	42.9718
B-M20	157.2354	0.0000	0.0000	81.6982	0.0000
B-M28	173.0125	0.0000	0.0000	116.5959	0.0000
B-M30	183.8250	31.3056	0.0000	117.0894	60.6886
B-M22	180.0917	0.0000	0.0000	91.0106	0.0000
B-M32	199.2333	0.0000	0.0000	115.1227	0.0000
B-M34	221.1722	0.0000	0.0000	112.8613	0.0000
B-M24	215.3389	0.0000	0.0000	81.7388	0.0000
B-M38	203.7000	0.0000	0.0000	109.5185	0.0000
B-M36	211.1722	0.0000	0.0000	112.7942	0.0000
B-M40	212.4994	0.0000	0.0000	114.3669	0.0000
B-M42	213.7972	0.0000	0.0000	113.8305	0.0000
B-F65	0.0000	0.0000	0.0000	31.4150	0.0000
B-F4	0.0000	0.0000	0.0000	17.3234	0.0000
B-M50	195.4167	0.0000	0.0000	93.2755	0.0000
B-M48	225.2833	0.0000	0.0000	100.8230	0.0000
B-M45	131.8208	0.0000	0.0000	54.1595	0.0000
B-M46	136.4958	0.0000	0.0000	55.6582	0.0000
B-M44	148.0333	0.0000	0.0000	59.8181	0.0000
B-M56	154.1750	0.0000	0.0000	61.4977	0.0000
B-M54	140.7530	0.0000	0.0000	63.1821	0.0000
B-M43	142.3333	0.0000	0.0000	57.8205	0.0000
B44	160.1250	88.1042	0.0000	3901.6867	4373.7257
B-F63	0.0000	0.0000	0.0000	108935.1293	0.0000
B-F61	224.2083	0.0000	0.0000	80.2607	0.0000
B-F59	226.0056	0.0000	0.0000	81.7556	0.0000
B-F57	228.0000	0.0000	0.0000	82.8161	0.0000
B-F55	229.6389	214.4958	0.0000	5997.2246	7410.7173
B-F53	223.6190	209.0714	0.0000	8205.4155	9312.8857
B-F51	224.4722	199.4000	0.0000	11423.0333	13270.1949
B-F43	224.6667	208.8852	0.0000	13614.3644	15884.2728
B-F39	224.6840	212.4065	0.0000	14544.6209	16940.6972
B-F37	221.5379	190.0352	0.0000	12144.9034	14478.1001
B-F35	221.7123	207.1303	0.0000	29563.9706	36626.3181
B-F33	221.6581	189.8896	0.0000	336.2852	0.0000
B-F19	209.2074	0.0000	0.0000	7980.8788	0.0000
B-F17	208.0000	0.0000	0.0000	7668.8163	0.0000
B-F15	204.2667	0.0000	0.0000	36570.8321	0.0000
B-F13	199.2500	0.0000	0.0000	6686.1952	0.0000
B-F45	0.0000	0.0000	0.0000	8.4040	0.0000
B-F41	0.0000	0.0000	0.0000	61.4318	0.0000
B-F49	0.0000	0.0000	0.0000	10.0354	0.0000
B-F47	0.0000	0.0000	0.0000	66.8961	0.0000
B-F67	193.2000	77.0613	0.0000	112.8308	7408.3656
B-F21	152.0333	0.0000	0.0000	111480.6012	0.0000
B-F23	98.3500	0.0000	0.0000	66.6141	0.0000
B-F25	138.1083	0.0000	0.0000	86.3573	0.0000
B-F27	136.5625	0.0000	0.0000	98.6788	0.0000
B-F29	139.2262	0.0000	0.0000	100.2816	0.0000
B-F31	142.2250	0.0000	0.0000	101.8983	0.0000
E100-OUT	0.0000	0.0000	0.0000	82.0973	0.0000

E131-OUT	0.0000	0.0000	0.0000	92.4547	0.0000
Node457	0.0000	0.0000	0.0000	0.0000	0.0000
Node458	0.0000	0.0000	0.0000	42.4966	0.0000
D2	57.5625	0.0000	0.0000	9267.8574	0.0000
D1	34.9131	0.0000	0.0000	55.2180	0.0000
D3	47.5655	0.0000	0.0000	60.8587	0.0000
D5	45.5083	0.0000	0.0000	73.7407	0.0000
D7	53.7583	0.0000	0.0000	85.0449	0.0000
D9	49.9792	0.0000	0.0000	93.8294	0.0000
D11	50.0417	0.0000	0.0000	93.6750	0.0000
D13	50.1667	0.0000	0.0000	93.0434	0.0000
D15	39.8995	0.0000	0.0000	92.4432	0.0000
D17	36.7292	0.0000	0.0000	97.2819	0.0000
D19	53.7569	0.0000	0.0000	96.5142	0.0000
D21	59.4000	0.0000	0.0000	95.6745	0.0000
D23	59.4167	0.0000	0.0000	94.8250	0.0000
D25	59.1000	0.0000	0.0000	92.0875	0.0000
D27	58.3250	0.0000	0.0000	87.9462	0.0000
D29	56.9000	0.0000	0.0000	82.6639	0.0000
D31	55.9792	0.0000	0.0000	79.8246	0.0000
D33	53.8139	0.0000	0.0000	76.6371	0.0000
D35	51.4854	0.0000	0.0000	81.2502	0.0000
D4	47.3958	0.0000	0.0000	49.0916	0.0000
D6	50.8000	0.0000	0.0000	52.3436	0.0000
D8	59.8893	0.0000	0.0000	65.4865	0.0000
D10	55.9375	0.0000	0.0000	55.6053	0.0000
D12	62.7222	0.0500	1.4844	72.8828	0.0000
D14	51.8333	0.0000	0.0000	51.4044	0.0000
D16	38.4583	0.0000	0.0000	39.4661	0.0000
D18	34.8403	0.0000	0.0000	37.5544	0.0000
D20	50.9077	0.0000	0.0000	48.7907	0.0000
D22	56.5208	0.0000	0.0000	51.7421	0.0000
D24	63.4259	0.0000	0.0000	66.9765	0.0000
D26	57.7014	0.0000	0.0000	50.4635	0.0000
D28	55.0000	0.0000	0.0000	45.5756	0.0000
D30	50.1292	0.0000	0.0000	36.2570	0.0000
D32	59.9167	0.0000	0.0000	50.9991	0.0000
D34	0.3792	0.0000	0.0000	28.7036	0.0000
D38	0.0000	0.0000	0.0000	7.2680	0.0000
D36	0.0000	0.0000	0.0000	12.4764	0.0000
D37	0.0000	0.0000	0.0000	75.3960	0.0000
F2	0.0000	0.0000	0.0000	23.2097	0.0000
F4	0.0000	0.0000	0.0000	35.3727	0.0000
F10	0.0000	0.0000	0.0000	38.4756	0.0000
F12	0.0000	0.0000	0.0000	41.5367	0.0000
F14	0.0000	0.0000	0.0000	70.3022	0.0000
F16	54.4944	0.0000	0.0000	69.3039	0.0000
F18	54.0708	0.0000	0.0000	73.9731	0.0000
F20	54.0278	0.0000	0.0000	113.7350	0.0000
F22	52.4418	0.0000	0.0000	112.3008	0.0000
F24	52.1914	0.0000	0.0000	77.9443	0.0000
F26	0.0000	0.0000	0.0000	76.9401	0.0000
F6	0.0000	0.0000	0.0000	10.0556	0.0000
F8	0.0000	0.0000	0.0000	10.1000	0.0000
F1	55.3542	0.0000	0.0000	35.2848	0.0000
F3	0.0000	0.0000	0.0000	28.8726	0.0000
F9	0.0000	0.0000	0.0000	20.9533	0.0000
F11	0.0000	0.0000	0.0000	22.5471	0.0000
F5	0.0000	0.0000	0.0000	10.0556	0.0000
F7	0.0000	0.0000	0.0000	10.1435	0.0000
F13	0.0000	0.0000	0.0000	9.5694	0.0000
F15	0.0000	0.0000	0.0000	14.2971	0.0000
F17	0.0000	0.0000	0.0000	7.0446	0.0000
F19	0.0000	0.0000	0.0000	11.5910	0.0000

F21	0.0000	0.0000	0.0000	9.2333	0.0000
F28	0.0000	0.0000	0.0000	75.3960	0.0000
A-M5B	0.0000	0.0000	0.0000	22.3268	0.0000

Simulation Specific Information			
Number of Input Conduits.....	257	Number of Simulated Conduits.....	267
Number of Natural Channels.....	36	Number of Junctions.....	242
Number of Storage Junctions.....	41	Number of Weirs.....	2
Number of Orifices.....	1	Number of Pumps.....	0
Number of Free Outfalls.....	7	Number of Tide Gate Outfalls.....	0

Average % Change in Junction or Conduit is defined as:
Conduit % Change ==> 100.0 (Q(n+1) - Q(n)) / Qfull
Junction % Change ==> 100.0 (Y(n+1) - Y(n)) / Yfull

The Conduit with the largest average change was..BF67-BF11 with 2.632 percent
The Junction with the largest average change was.B-F67 with 0.851 percent
The Conduit with the largest sinuosity was.....BF77-BF81 with 533.517

Table E21. Continuity balance at the end of the simulation
Junction Inflow, Outflow or Street Flooding
Error = Inflow + Initial Volume - Outflow - Final Volume

Inflow Junction	Inflow Volume,ft^3	Average Inflow, cfs
A2	24201.5231	0.2801
A4	35577.7908	0.4118
A6	82960.3876	0.9602
A10	14445.2154	0.1672
A12	19251.6697	0.2228
A14	18135.2937	0.2099
C4	8469.1963	0.0980
C6	11628.2646	0.1346
C8	11628.2646	0.1346
C1	11916.2703	0.1379
C3	8874.2033	0.1027
C5	11826.2680	0.1369
C7	17703.4027	0.2049
B10	5400.1261	0.0625
B12	8010.1851	0.0927
B14	3366.0766	0.0390
B16	12924.2940	0.1496
B18	13266.3036	0.1535
B20	5904.1346	0.0683
B22	9486.3091	0.1098
B24	26577.8908	0.3076
B26	12915.5021	0.1495
B28	7794.2058	0.0902
B30	8622.1804	0.0998
B36	2124.0464	0.0246
B38	3699.0858	0.0428
B40	3528.0805	0.0408
B-M8	19566.7764	0.2265
A-F12	11736.3515	0.1358
A16	5085.1968	0.0589
A-M8	57034.9622	0.6601
A-M6	122122.7876	1.4135
A-M4	29471.7003	0.3411
A-M2	24237.5541	0.2805
A-F4	49032.8064	0.5675
A-F8	20925.6488	0.2422
A-F16	19458.5292	0.2252
A-F20	12537.3630	0.1451
A-F24	29520.7461	0.3417
A-F28	35289.9000	0.4084
A-F32	28116.6874	0.3254
A-OUT	84259.1475	0.9752
A-F36	51364.4472	0.5945
A-F38	99784.7750	1.1549
A-F40	41356.3775	0.4787

A-M12	79741.2989	0.9229
A-M14	80101.0026	0.9271
A-M16	124354.4295	1.4393
A-M18	72720.9767	0.8417
A-M20	80362.2271	0.9301
A-M26	91855.2074	1.0631
A-M28	50014.5096	0.5789
A-M30	63126.7452	0.7306
A-M32	41589.9483	0.4814
A-M3	37773.5548	0.4372
A-M5	55999.4642	0.6481
A-M7	87904.2515	1.0174
A-M13	69588.8243	0.8054
A-M15	54891.7114	0.6353
A-M17	55989.7213	0.6480
A-M19	131896.8875	1.5266
A-M25	78139.1869	0.9044
A-M27	103889.4921	1.2024
A8	16272.2434	0.1883
C2	11799.2682	0.1366
A-M31	41203.5820	0.4769
A-M33	18963.4343	0.2195
A11	10188.2284	0.1179
A-F35	32216.4742	0.3729
B4	5472.1263	0.0633
B6	5220.1202	0.0604
B8	4905.1125	0.0568
B32	3042.0629	0.0352
B-F2	107175.2859	1.2405
B42	31608.7184	0.3658
B-M10	15363.3488	0.1778
B-M12	25885.0171	0.2996
B34	12942.2787	0.1498
B-M9	94393.1219	1.0925
B-M52	79012.2424	0.9145
B-F5	216320.5007	2.5037
B-F9	289205.8289	3.3473
B-F7	227570.8140	2.6339
A-M35	16614.6401	0.1923
B-M18	13991.0514	0.1619
B-M14	26038.0235	0.3014
B-F1	91672.9114	1.0610
B-F3	264674.2182	3.0634
B-F11	309211.6618	3.5788
B-M16	18873.7476	0.2184
B2	22851.5198	0.2645
B-M2	45279.2990	0.5241
B-M4	9675.2155	0.1120
B-M6	23454.1547	0.2715
B-M1	60048.7699	0.6950
B-M3	60859.9398	0.7044
B-M11	42174.6001	0.4881
A-M37	40491.9214	0.4687
A-M41	60525.4225	0.7005
A-M39	28764.6536	0.3329
B-F73	77105.3802	0.8924
B-F75	16506.6160	0.1910
B-F77	34560.6314	0.4000
B-F20	1476.0350	0.0171
B-F71	134476.6445	1.5564
B-M20	44415.2955	0.5141
B-M22	73611.4971	0.8520
B-M24	51417.3416	0.5951
B-M38	30330.6900	0.3510

B-F4	79075.9006	0.9152
B-M45	2466.0574	0.0285
B-M46	2466.0574	0.0285
B-M44	2691.0621	0.0311
B-M43	2610.0626	0.0302
B44	24498.5594	0.2835
B-F63	2.81619E+06	32.5948
B-F59	35541.5624	0.4114
B-F55	97004.9252	1.1227
B-F53	101143.3656	1.1706
B-F51	66314.0553	0.7675
B-F39	23517.8331	0.2722
B-F37	52551.7862	0.6082
B-F35	66080.3107	0.7648
B-F33	19746.3081	0.2285
B-F19	37801.4061	0.4375
B-F17	347330.4230	4.0200
B-F15	30848.6161	0.3570
B-F13	451382.9025	5.2243
B-F45	10494.2368	0.1215
B-F41	6003.1373	0.0695
B-F49	10449.2363	0.1209
B-F47	6669.1510	0.0772
B-F21	194090.1274	2.2464
B-F23	19377.4422	0.2243
D2	74364.5159	0.8607
D1	20061.3001	0.2322
D3	25110.3699	0.2906
D5	27189.3943	0.3147
D7	63369.9037	0.7334
D9	23130.3374	0.2677
D11	54081.7571	0.6259
D13	30969.4262	0.3584
D15	31734.4626	0.3673
D17	33354.4978	0.3860
D19	26874.4004	0.3110
D21	25002.3462	0.2894
D23	48555.6922	0.5620
D25	35496.5283	0.4108
D27	42201.6169	0.4884
D29	20430.2980	0.2365
D31	48825.7158	0.5651
D33	45108.6673	0.5221
D35	29223.4357	0.3382
D4	39434.7449	0.4564
D6	27567.7448	0.3191
D8	47381.7857	0.5484
D10	16614.4074	0.1923
D12	38111.4541	0.4411
D14	21969.5506	0.2543
D16	23589.4639	0.2730
D18	21798.3278	0.2523
D20	18243.2503	0.2111
D22	16929.2358	0.1959
D24	38520.5357	0.4458
D26	32886.4557	0.3806
D28	40131.5582	0.4645
D30	19746.2766	0.2285
D32	48015.6687	0.5557
D34	45153.6266	0.5226
D38	20223.7123	0.2341
D36	25407.3543	0.2941
D37	14724.5368	0.1704
F2	9009.2057	0.1043

F4	63019.0653	0.7294
F10	15381.2835	0.1780
F12	17541.3128	0.2030
F16	15822.2280	0.1831
F18	32445.4795	0.3755
F24	12789.1928	0.1480
F26	10305.1883	0.1193
F6	10494.2368	0.1215
F8	5292.1208	0.0613
F1	233065.2789	2.6975
F3	91438.2180	1.0583
F9	45527.6914	0.5269
F5	10494.2368	0.1215
F7	5445.1258	0.0630
F13	69725.3784	0.8070
F15	120518.0789	1.3949
F17	31941.4471	0.3697
F19	28305.3877	0.3276
F21	16470.2851	0.1906
F28	6165.1053	0.0714
B-F65	-2.757E+06	-31.9154
E100-OUT	-2.509E+06	-29.0362
E131-OUT	-4.469E+06	-51.7227
Node457	-182859.8504	-2.1164
D12	-1.4844	0.0000
D37	-1.265E+06	-14.6405
F28	-852675.7036	-9.8689
A-M5B	-47009.6542	-0.5441

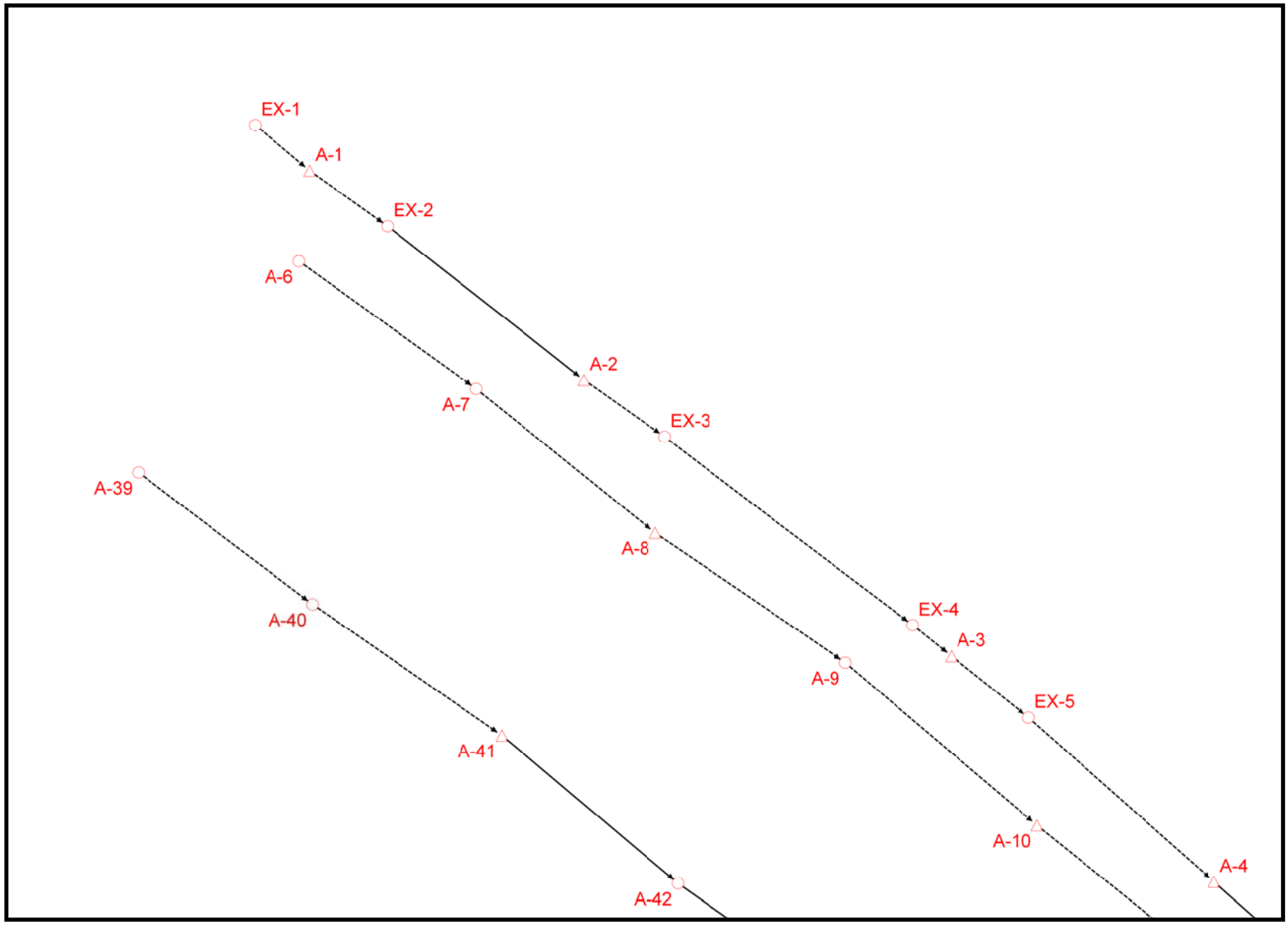
Outflow Junction	Outflow Volume,ft^3	Average Outflow, cfs
B-F65	2.75749E+06	31.9154
E100-OUT	2.50872E+06	29.0362
E131-OUT	4.46884E+06	51.7227
Node457	182859.8504	2.1164
D12	1.4844	0.0000
D37	1.26494E+06	14.6405
F28	852675.7036	9.8689
A-M5B	47009.6542	0.5441

```
*=====================================================*
| Initial system volume        =         0.0000 Cu Ft |
| Total system inflow volume   =  11.967805E+06 Cu Ft |
| Inflow + Initial volume      =  11.967805E+06 Cu Ft |
*=====================================================*
| Total system outflow         =  12.082544E+06 Cu Ft |
| Volume left in system        =     52049.6700 Cu Ft |
| Evaporation                  =         0.0000 Cu Ft |
| Outflow + Final Volume       =  12.134593E+06 Cu Ft |
*=====================================================*


*=============================================*
| Total Model Continuity Error                |
| Error in Continuity, Percent =        -1.3908 |
| Error in Continuity, ft^3    =    -166453.882 |
| + Error means a continuity loss, - a gain    |
*=============================================*

#####################################################
# Table E22. Numerical Model judgement section    #
#####################################################

Your overall error was                                    -1.3908 percent


Worst nodal error was in node B-F81            with        -4.1649 percent


Of the total inflow this loss was                          0.3008 percent


Your overall continuity error was                  Great


                                            Excellent Efficiency
```

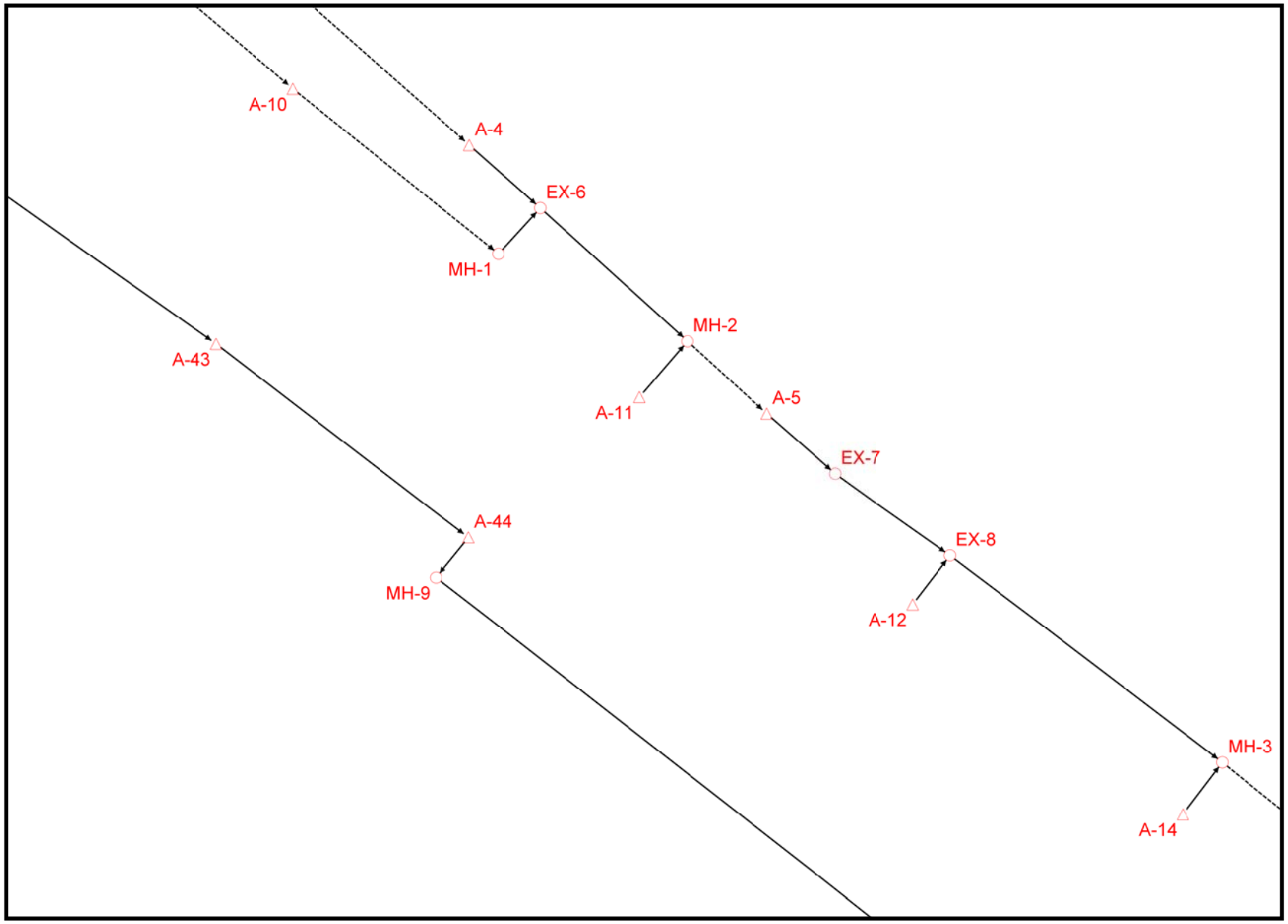
```
Efficiency of the simulation                      1.37


Most Number of Non Convergences at one Node       1.


Total Number Non Convergences at all Nodes        1.


Total Number of Nodes with Non Convergences       1.



===> Hydraulic model simulation ended normally.
===> XP-SWMM Simulation ended normally.


===> Your input file was named  : P:\PROJECTS\290PMC\PhaseII\DRA\Models\SWMM\Segment E\100YR_SegE_Existing.DAT
===> Your output file was named : P:\PROJECTS\290PMC\PhaseII\DRA\Models\SWMM\Segment E\100YR_SegE_Existing.out

*================================================================*
|             SWMM Simulation Date and Time Summary              |
*================================================================*
| Starting Date... July        9, 2009  Time...   13:47:33:91  |
|   Ending Date... July        9, 2009  Time...   13:50:43:73  |
|  Elapsed Time...    3.16367 minutes or    189.82000 seconds  |
*================================================================*
```

OUTFALLS 1-4
SWMM OUTPUT
100 YR- MITIGATED CONDITIONS

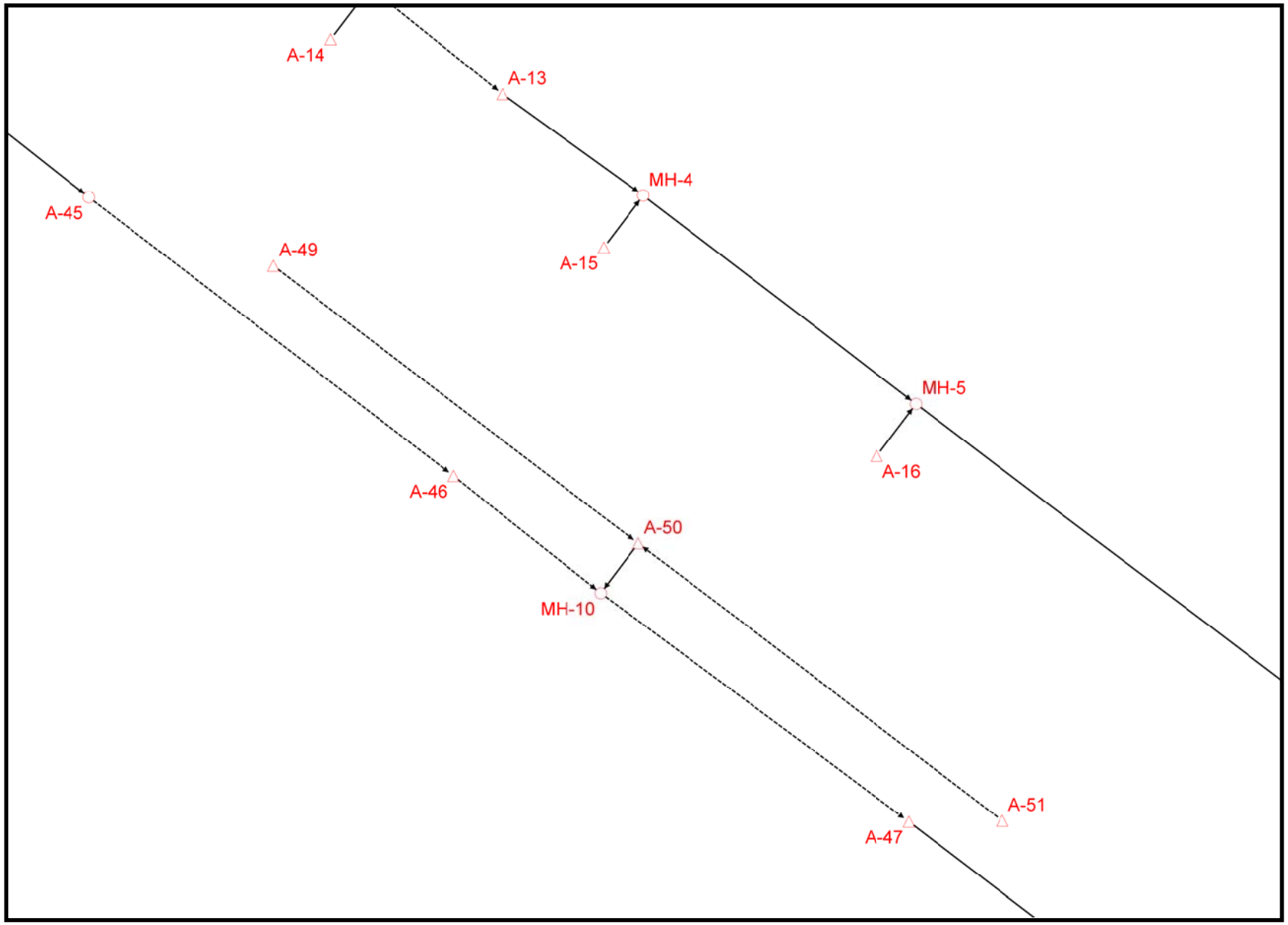
OUTFALL 1 & 2
MITIGATED CONDITIONS SWMM LAYOUT



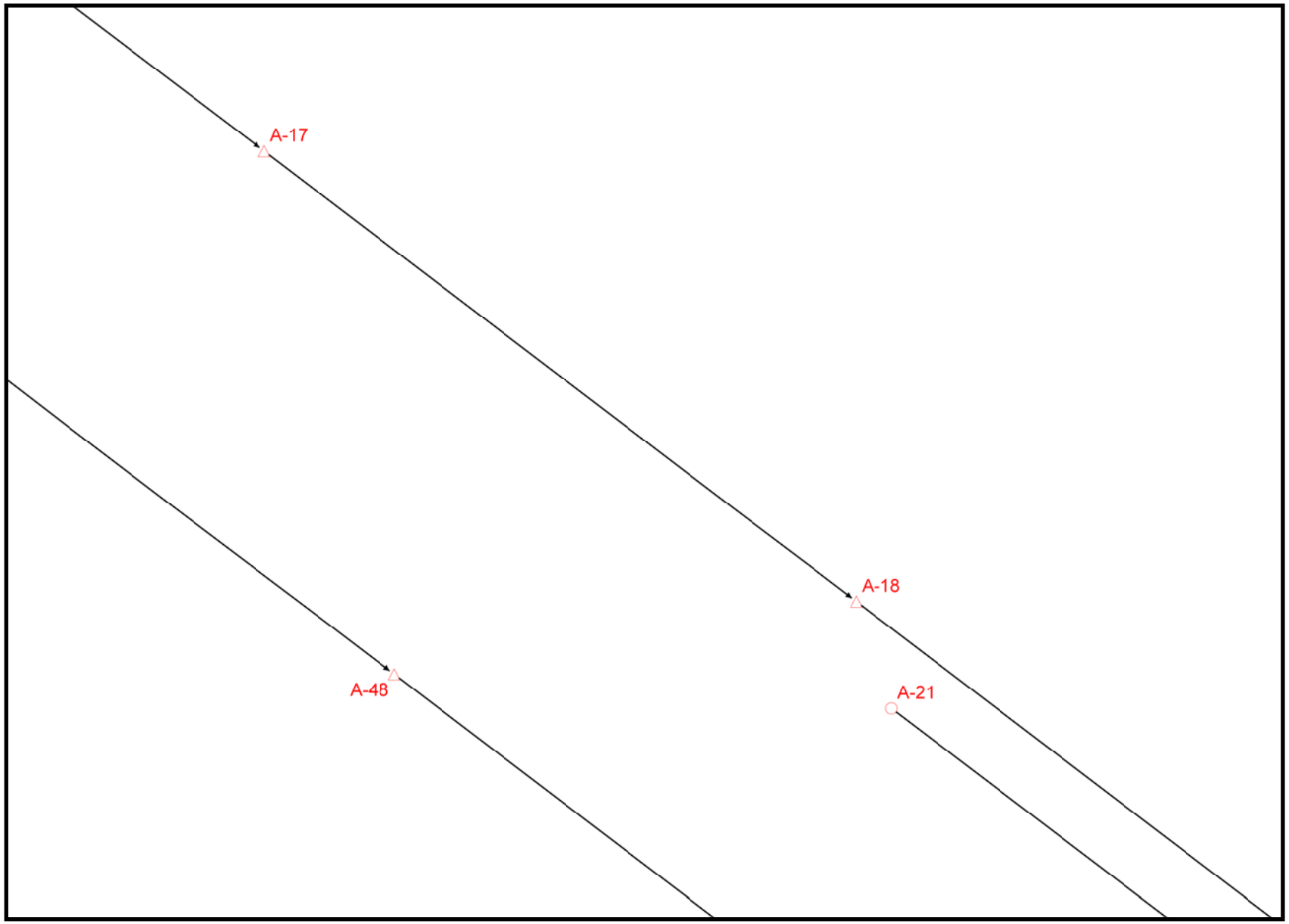
OUTFALL 1 & 2
MITIGATED CONDITIONS SWMM LAYOUT



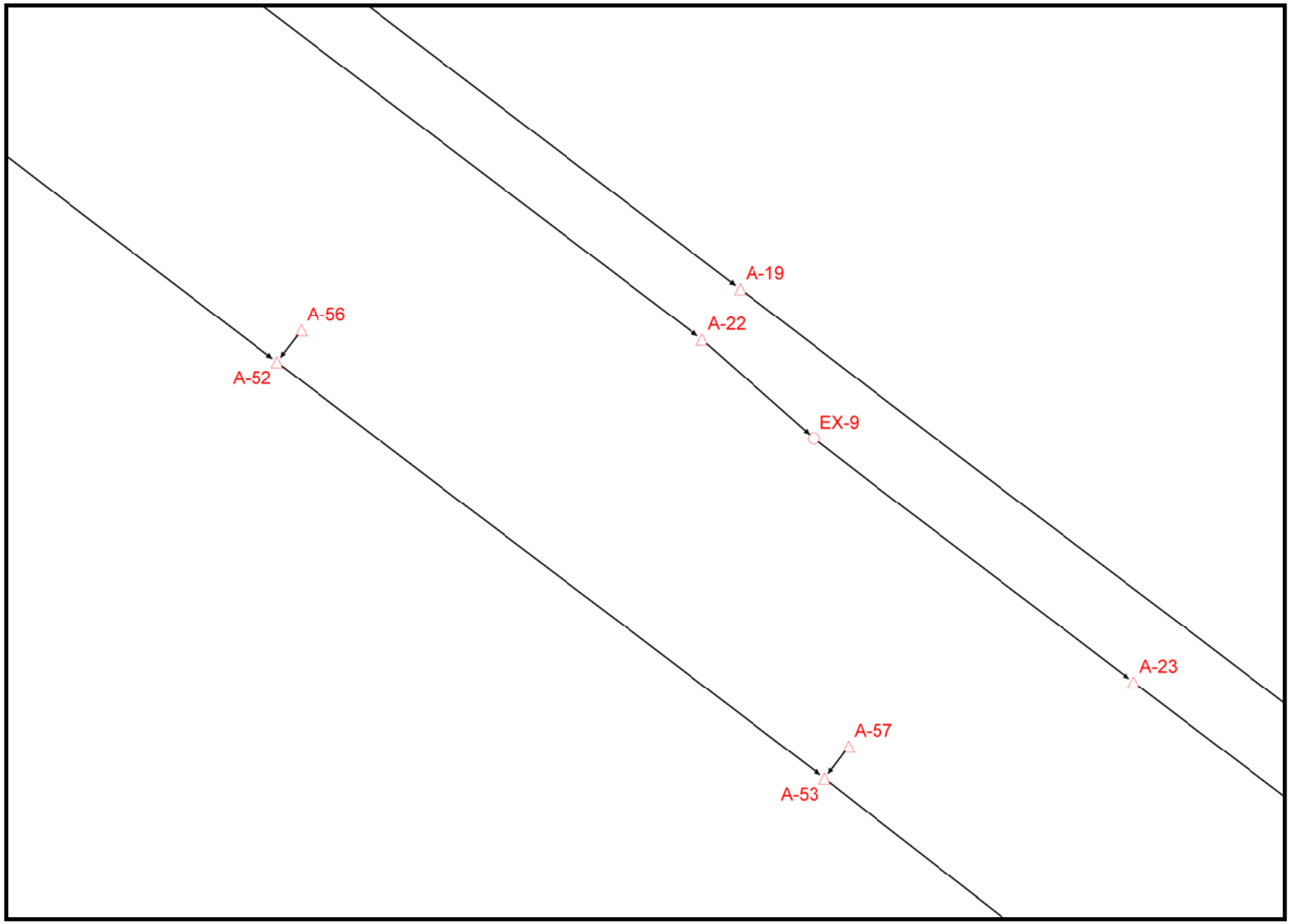
OUTFALL 1 & 2
MITIGATED CONDITIONS SWMM LAYOUT



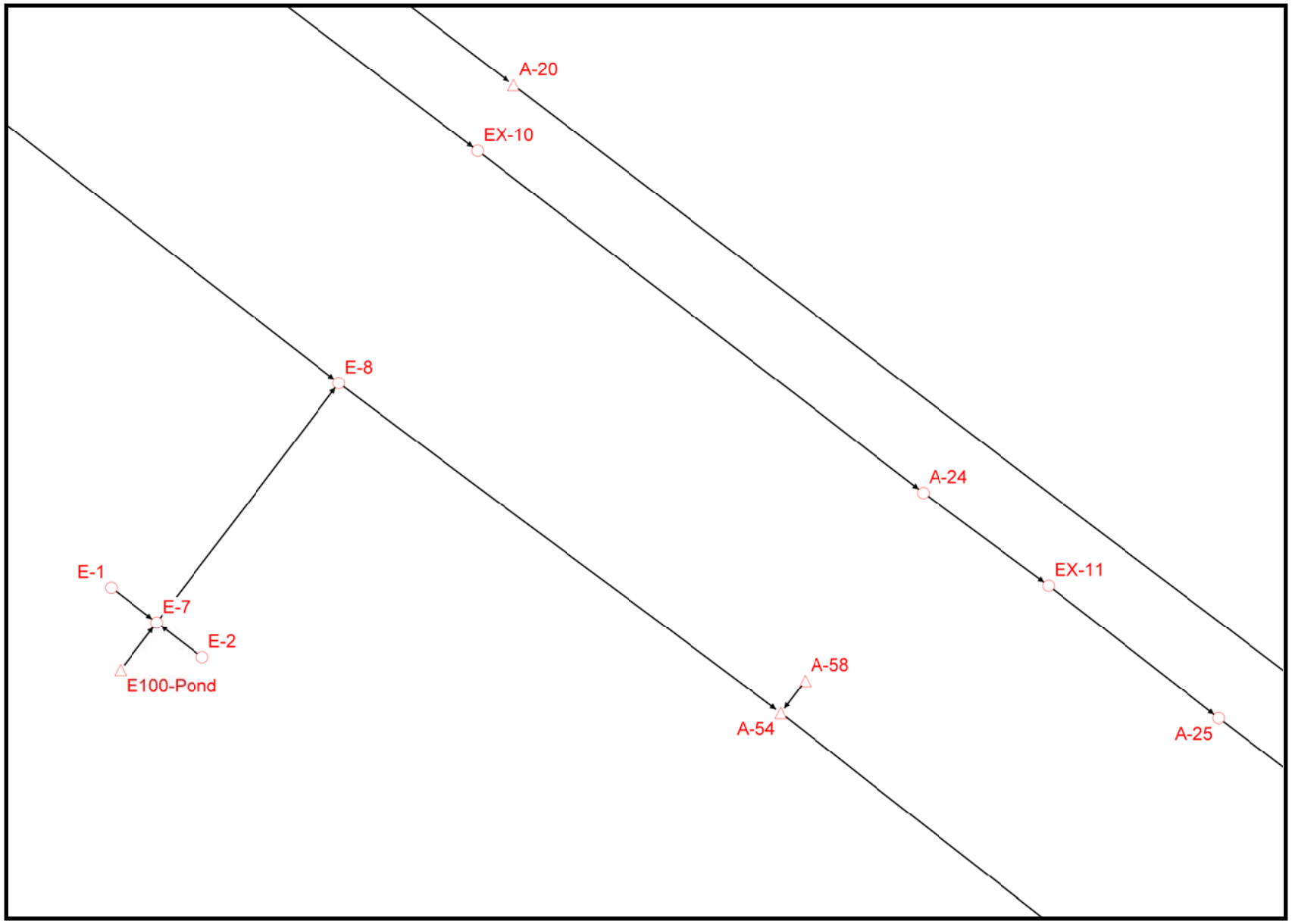
OUTFALL 1 & 2
MITIGATED CONDITIONS SWMM LAYOUT



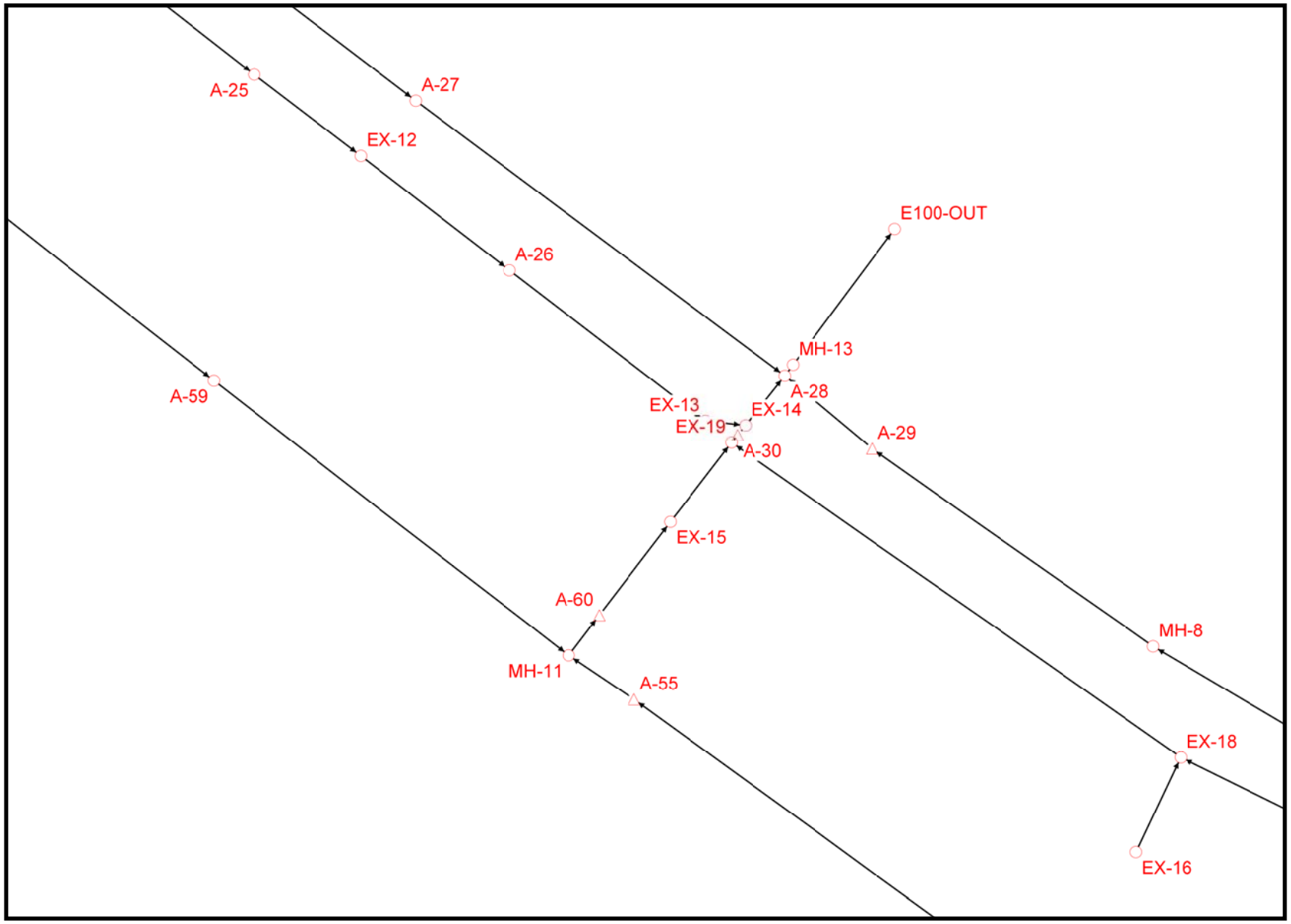
OUTFALL 1 & 2
MITIGATED CONDITIONS SWMM LAYOUT



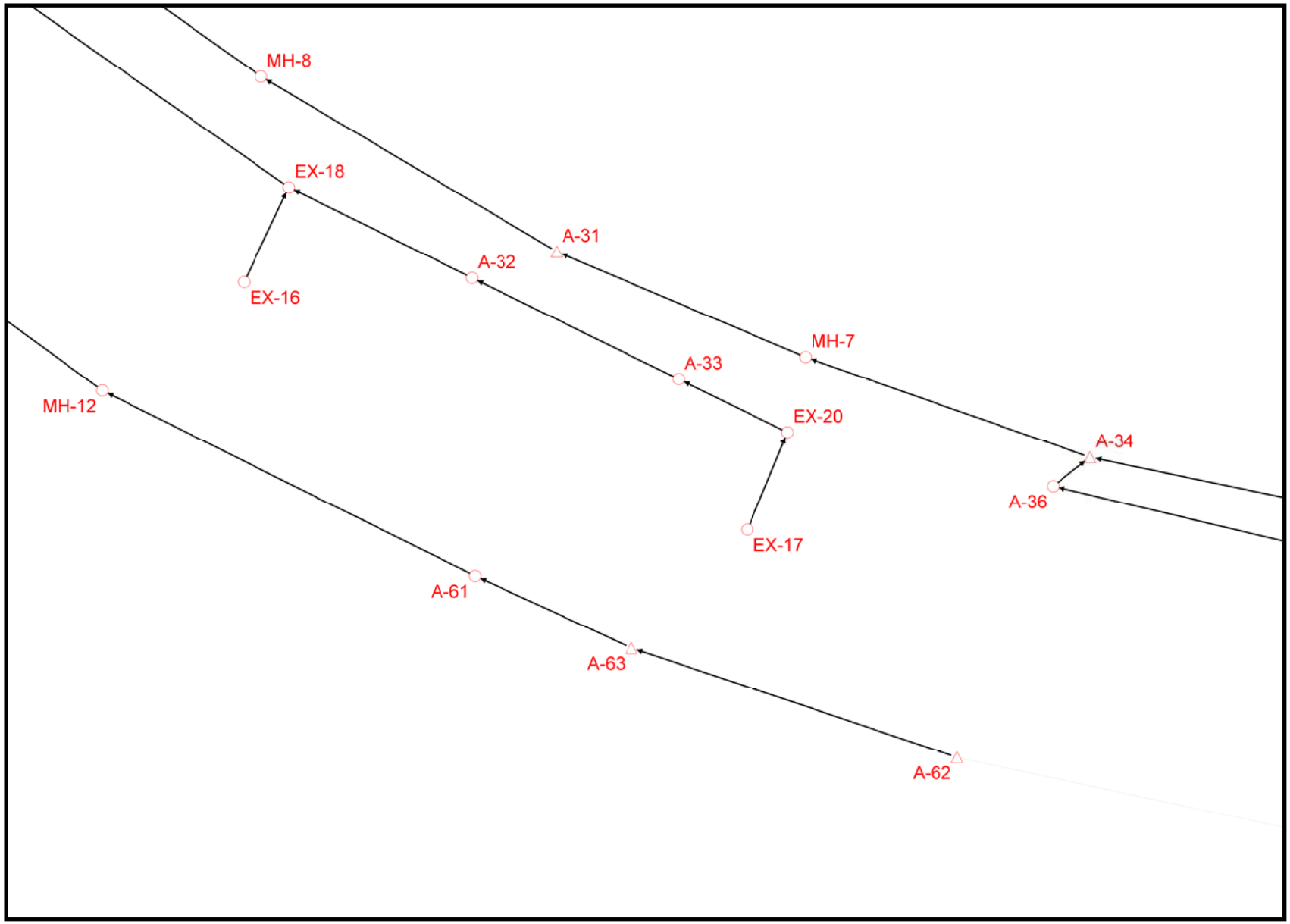
OUTFALL 1 & 2
MITIGATED CONDITIONS SWMM LAYOUT



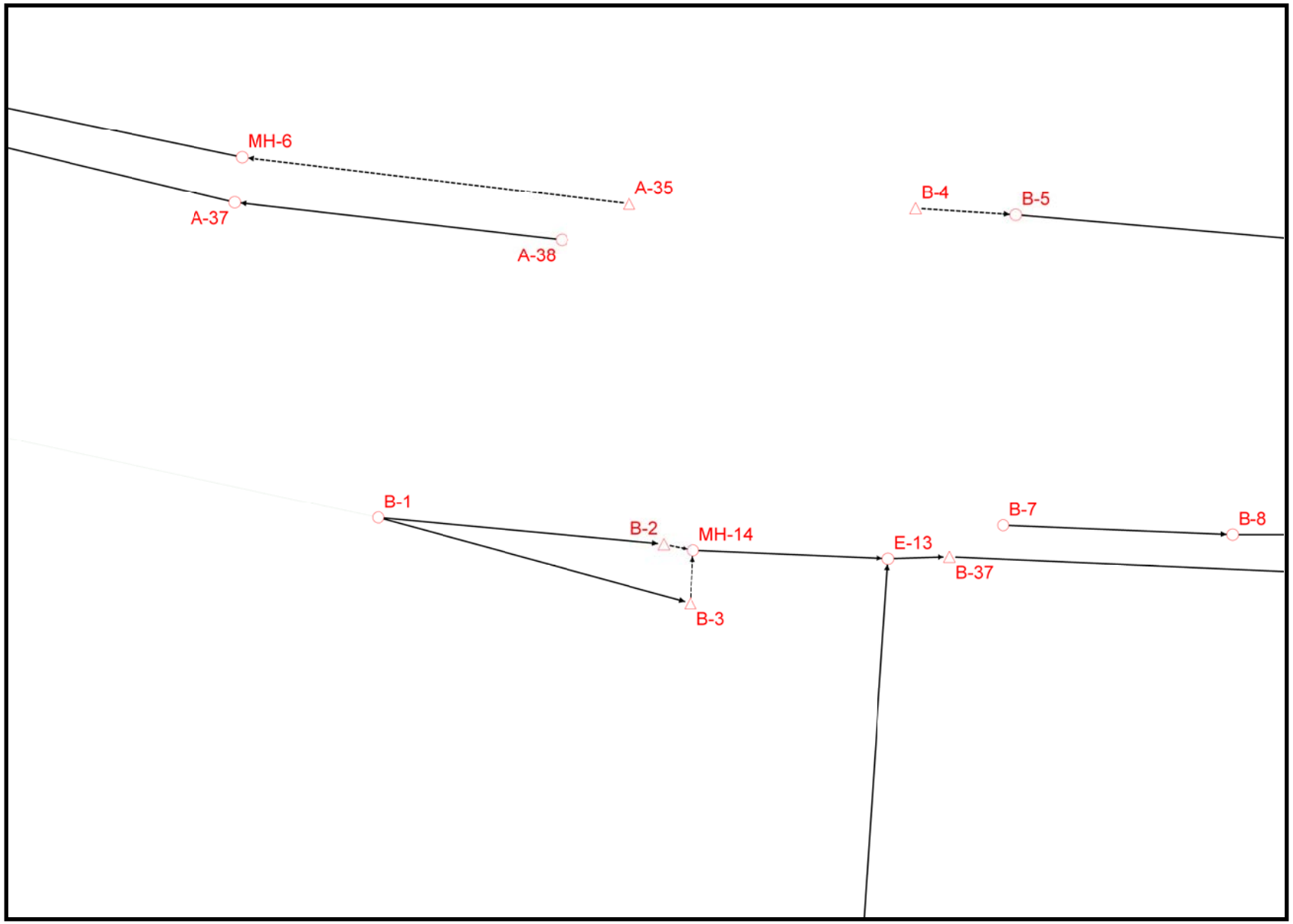
OUTFALL 1 & 2
MITIGATED CONDITIONS SWMM LAYOUT



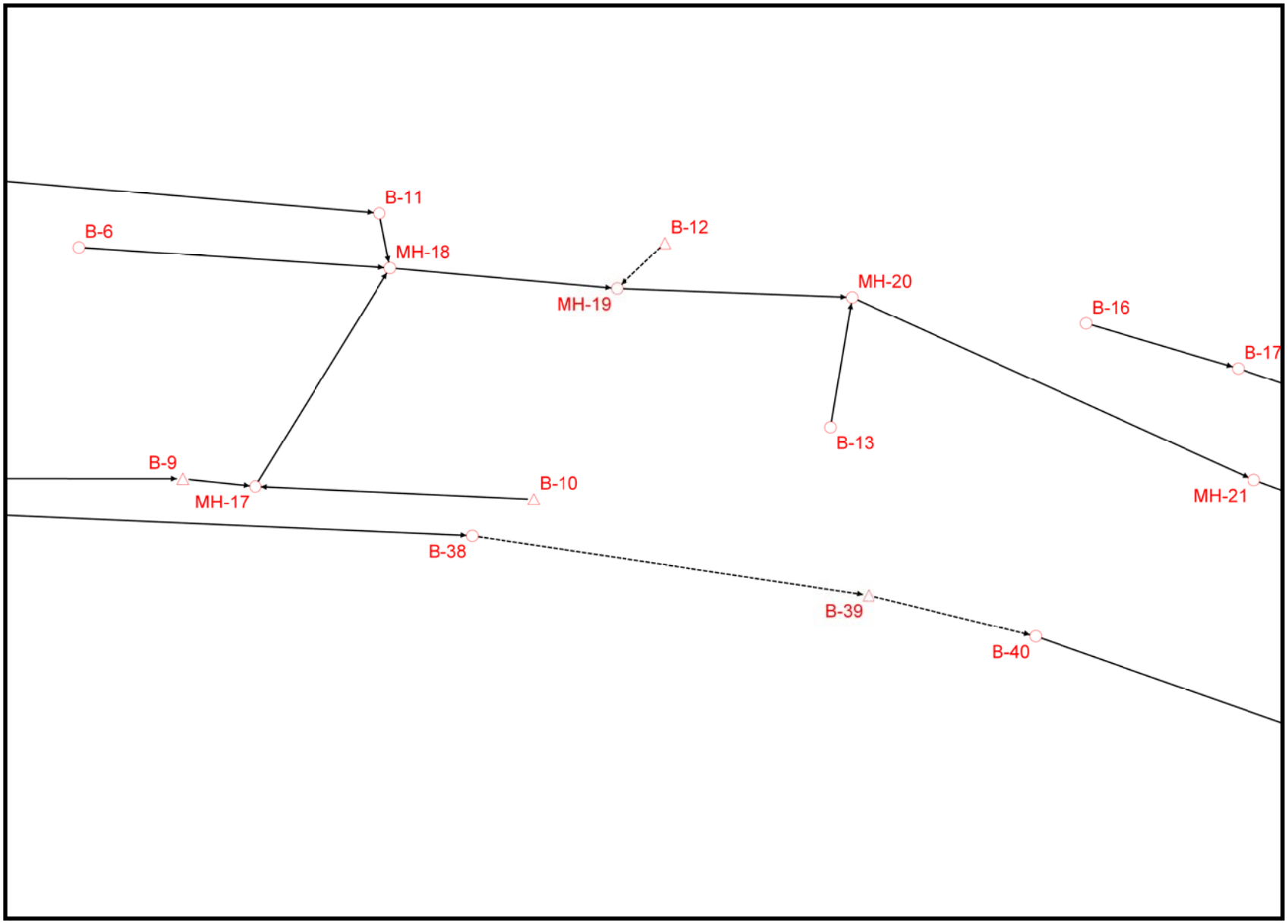
OUTFALL 1 & 2
MITIGATED CONDITIONS SWMM LAYOUT



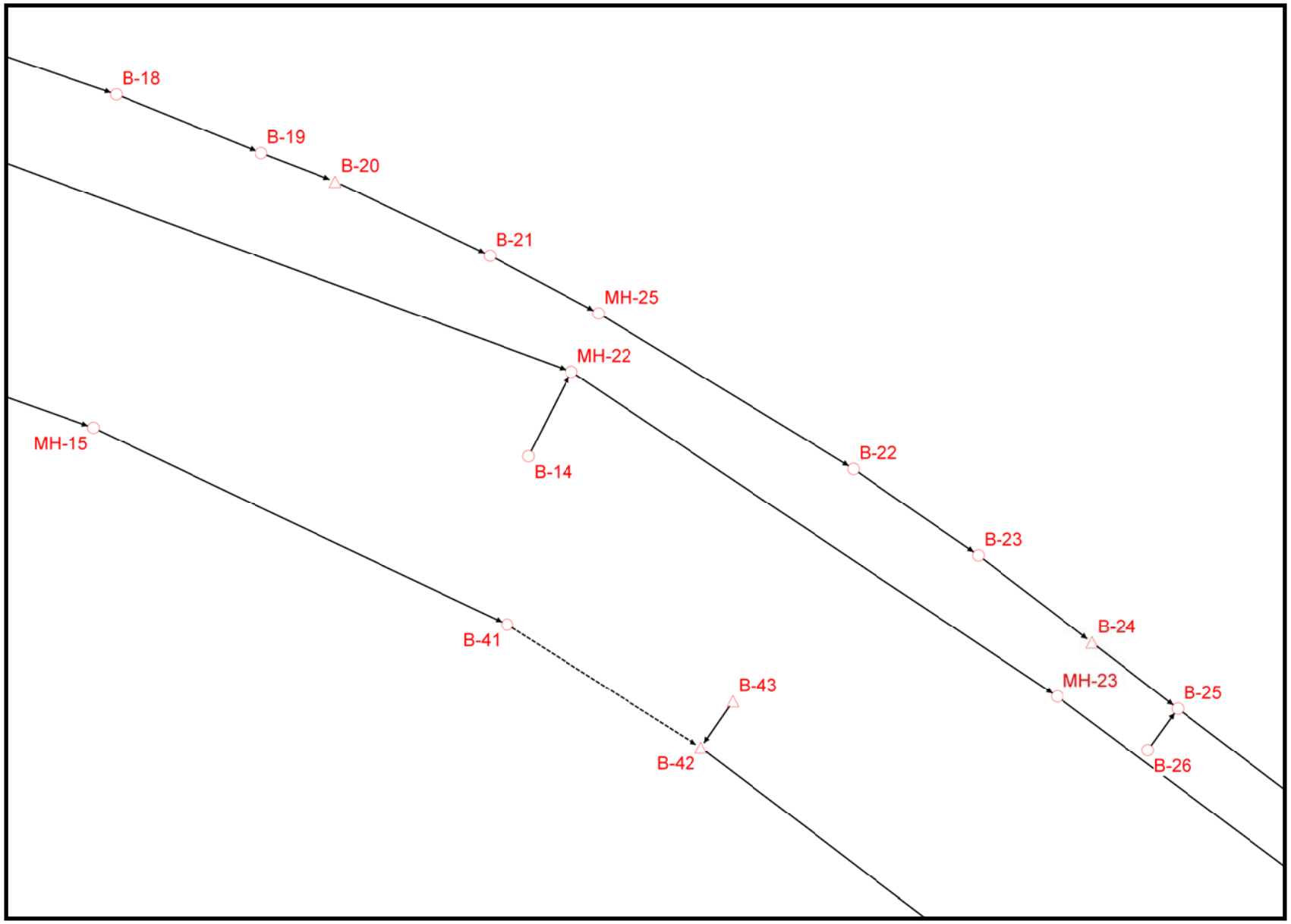
OUTFALL 1 & 2
MITIGATED CONDITIONS SWMM LAYOUT



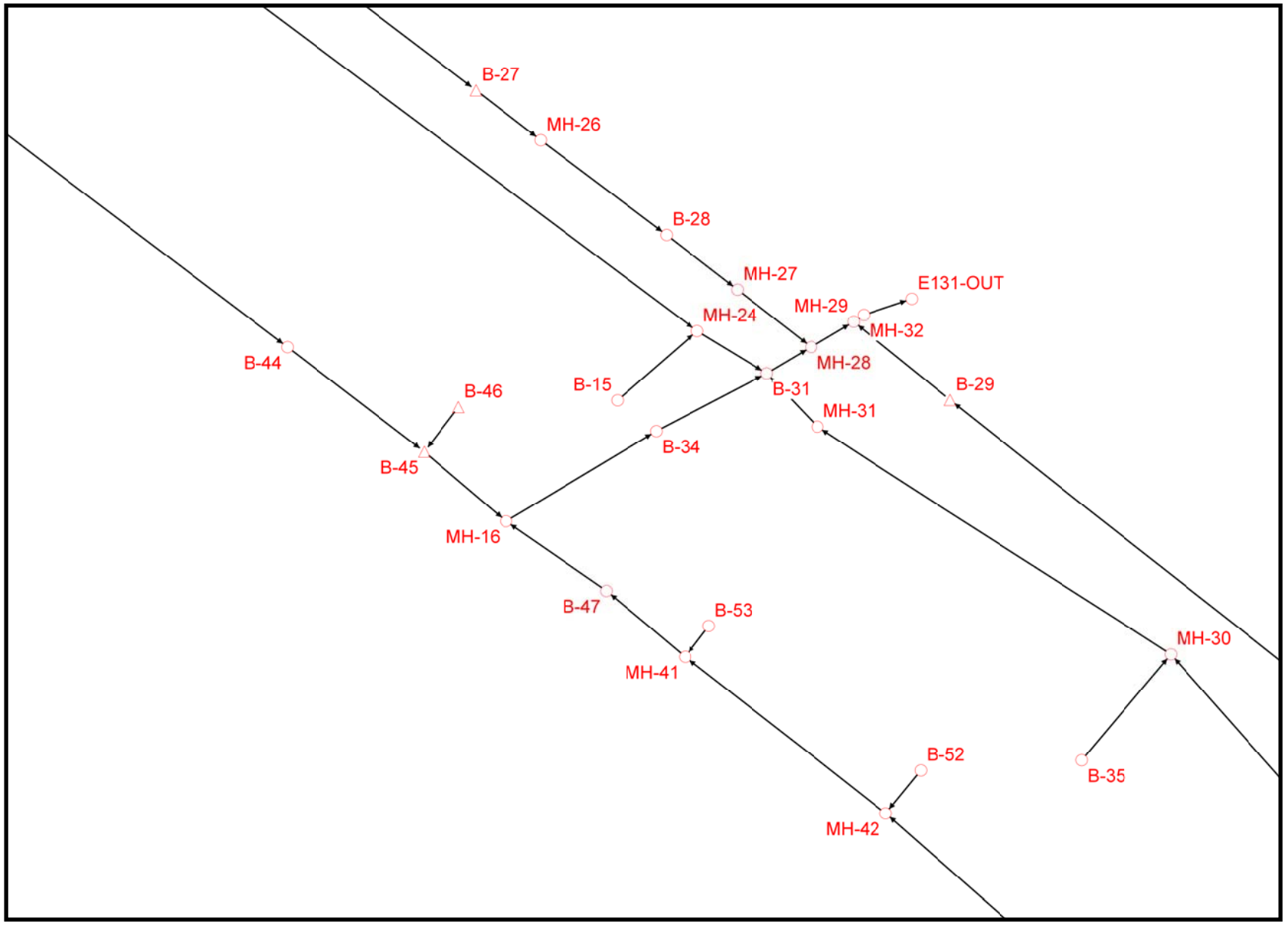
OUTFALL 1 & 2
MITIGATED CONDITIONS SWMM LAYOUT



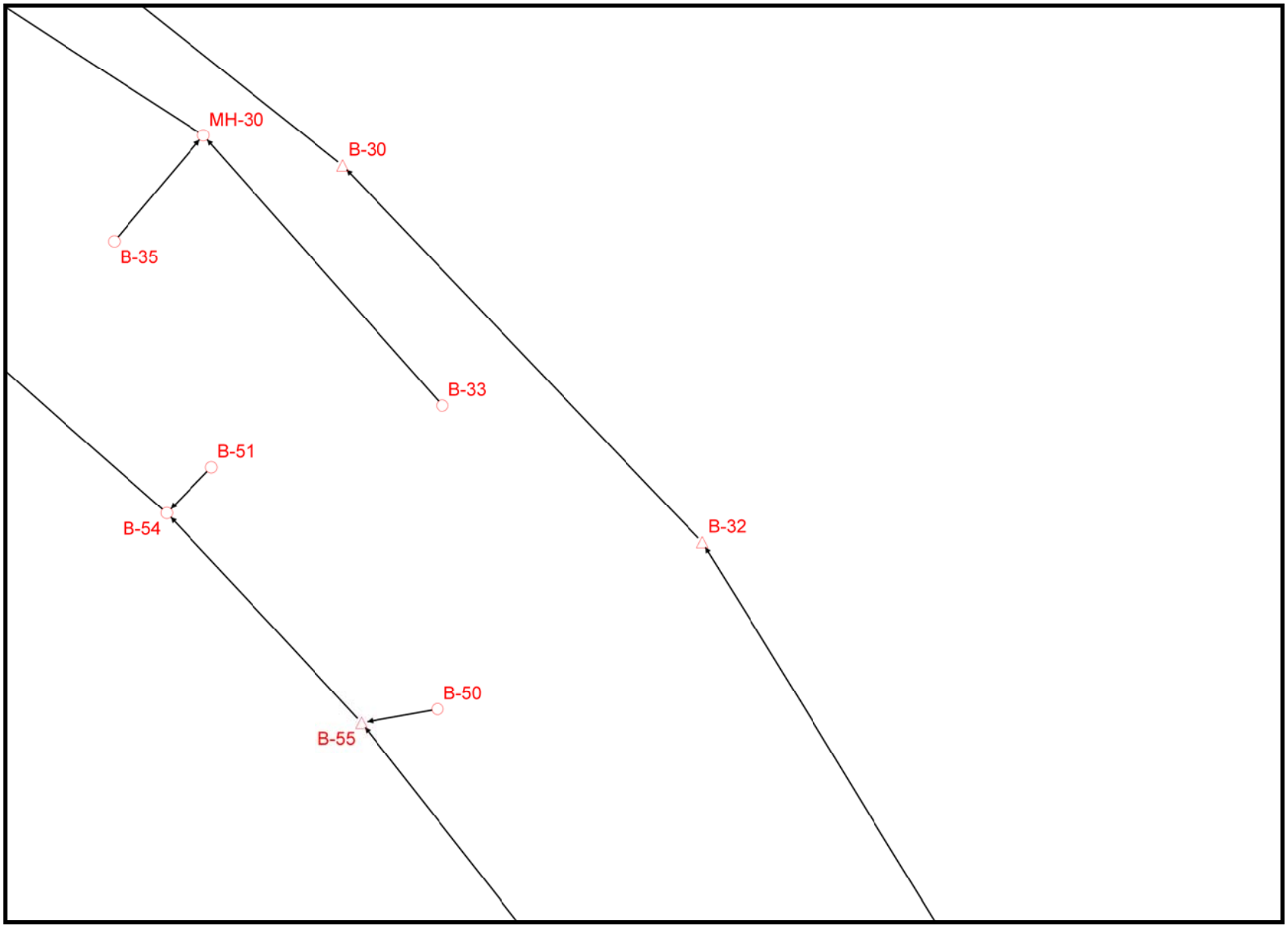
OUTFALL 1 & 2
MITIGATED CONDITIONS SWMM LAYOUT



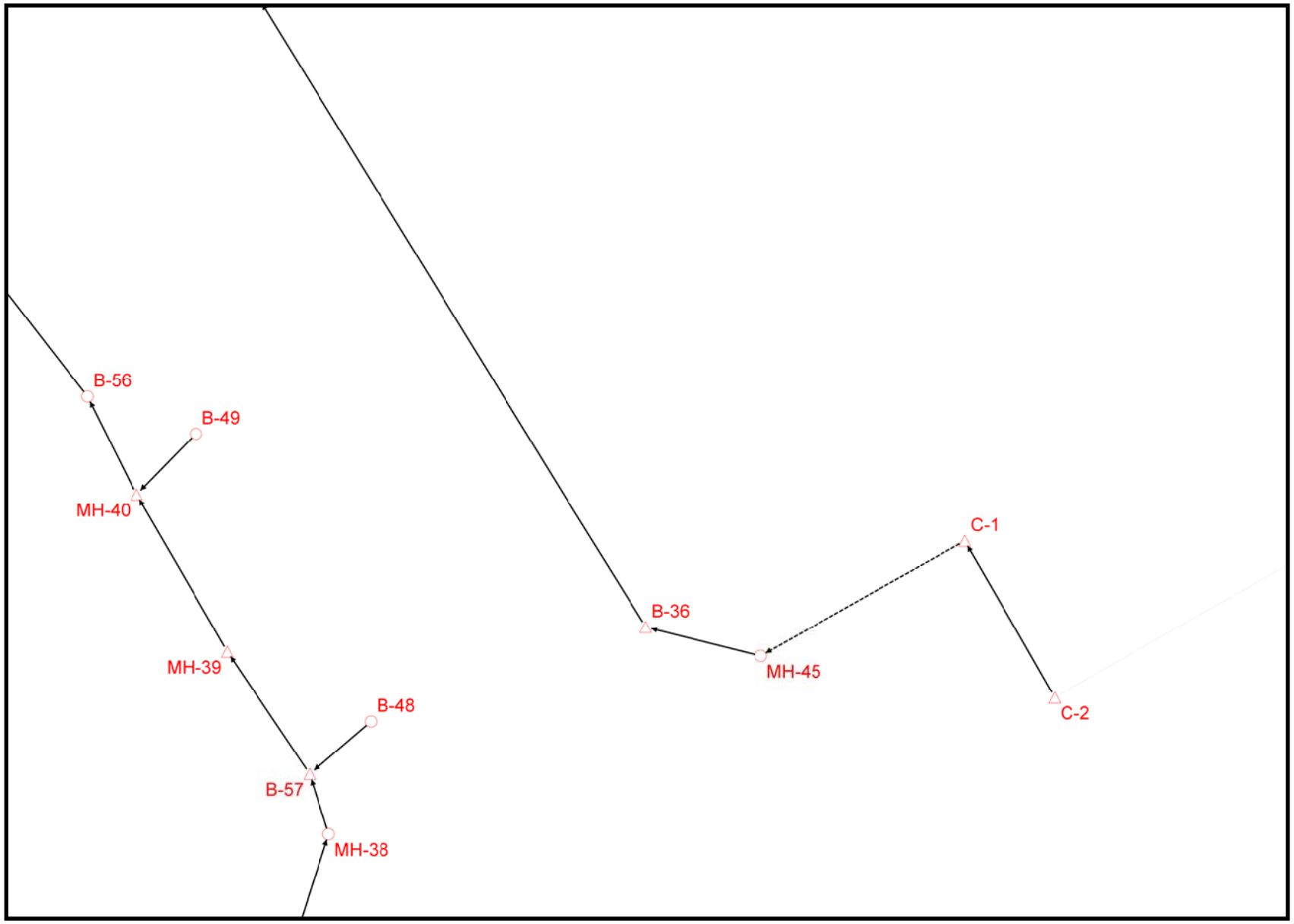
OUTFALL 1 & 2
MITIGATED CONDITIONS SWMM LAYOUT



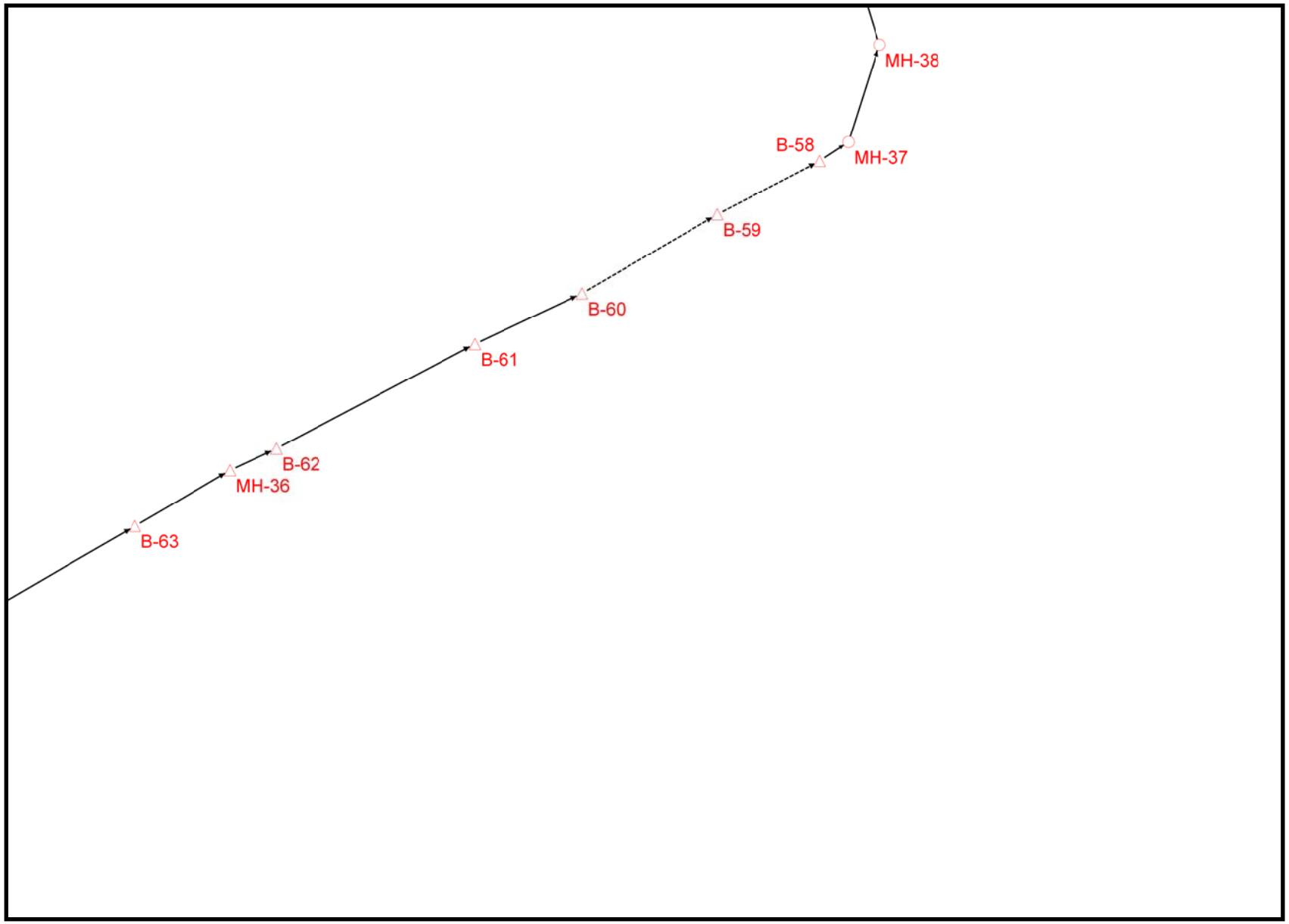
OUTFALL 1 & 2
MITIGATED CONDITIONS SWMM LAYOUT



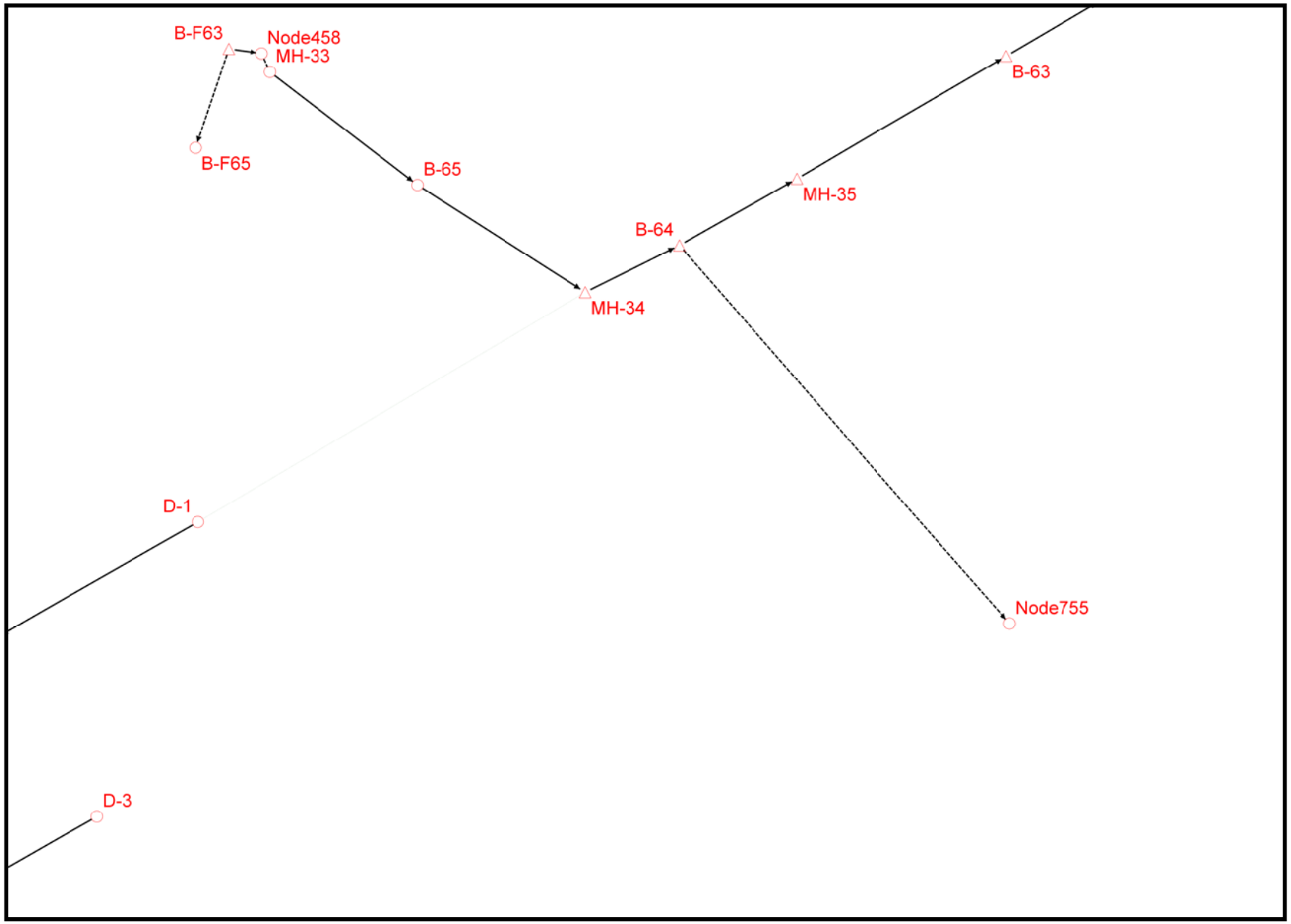
OUTFALL 1 & 2
MITIGATED CONDITIONS SWMM LAYOUT



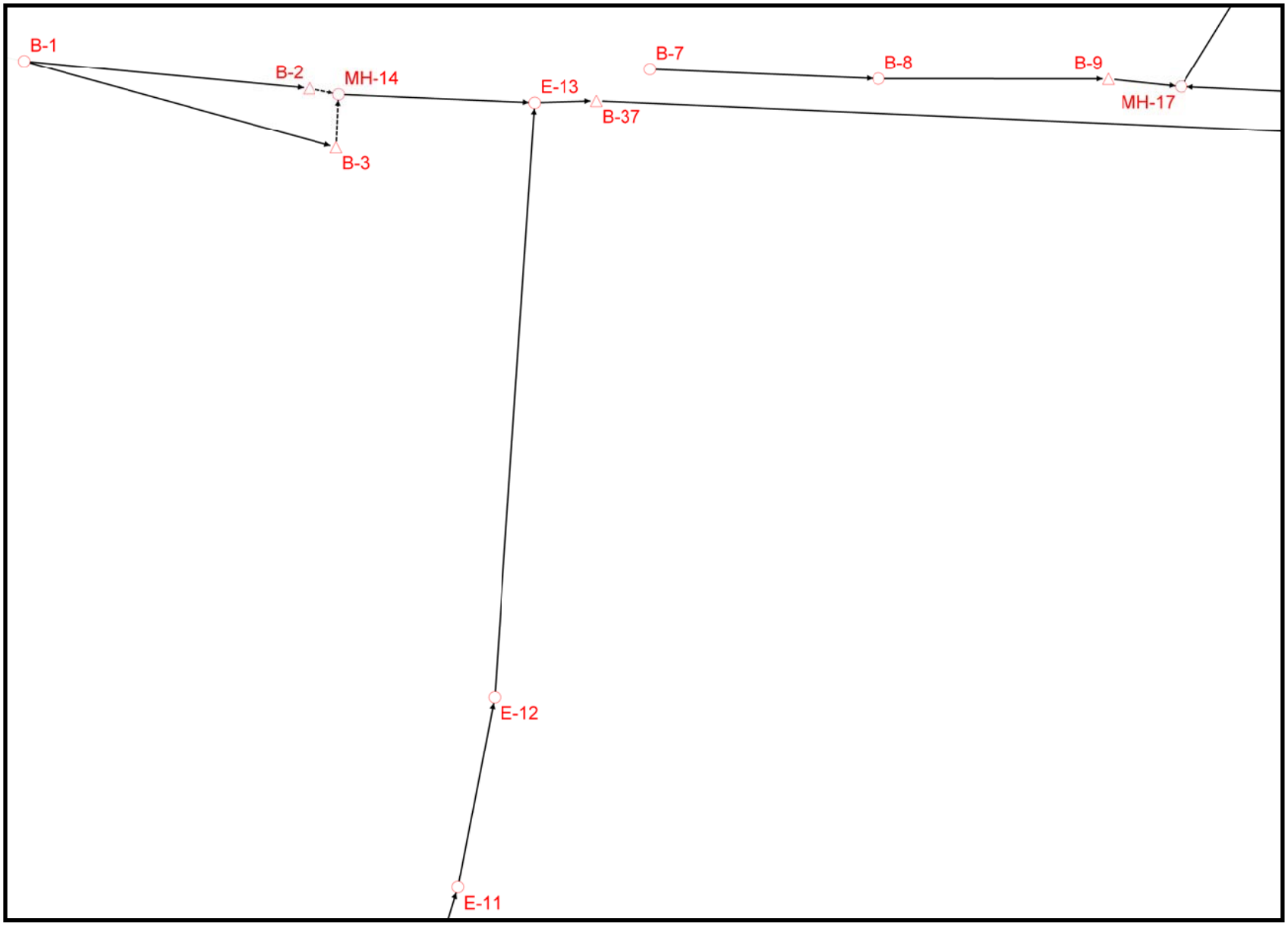
OUTFALL 1 & 2
MITIGATED CONDITIONS SWMM LAYOUT



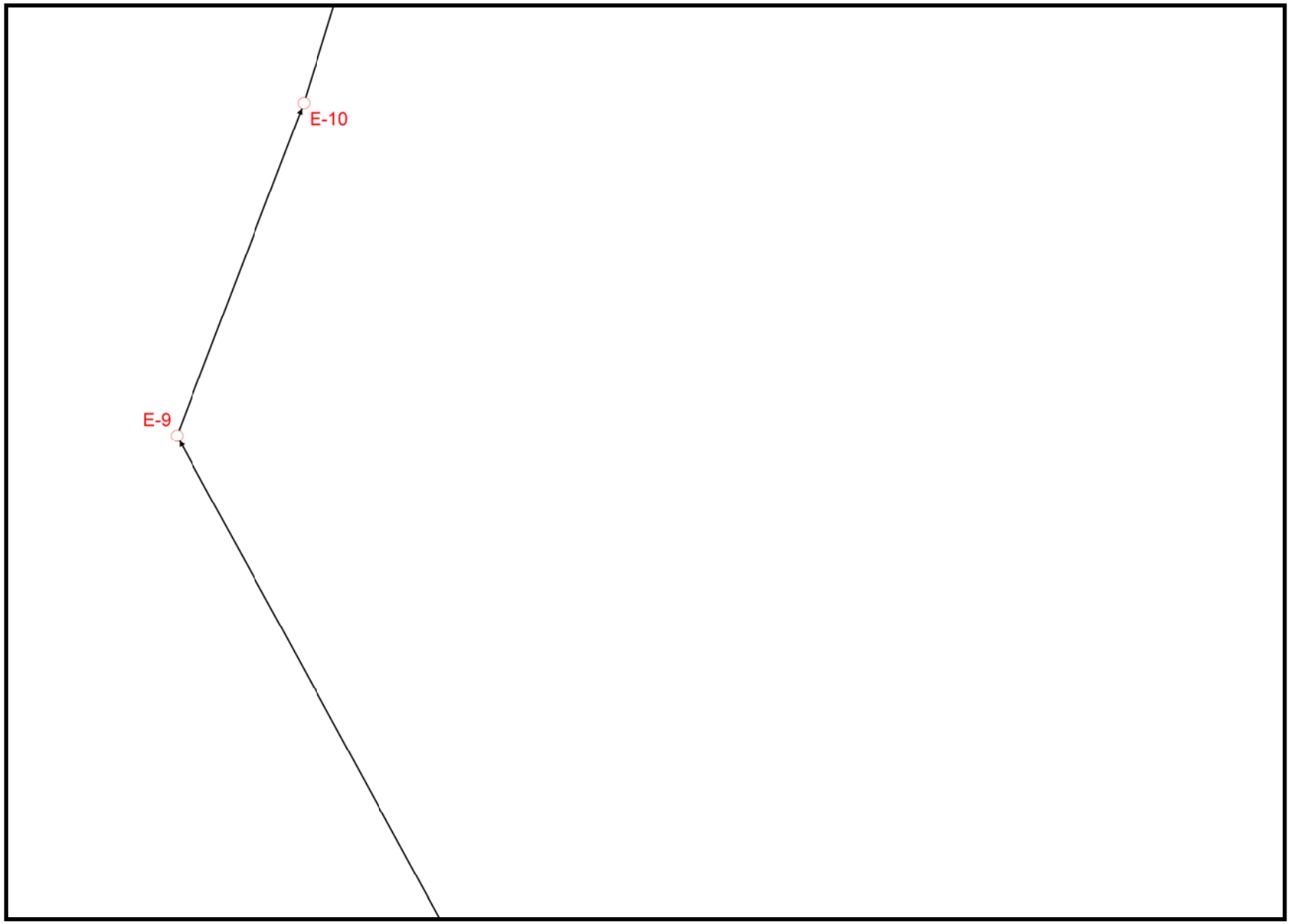
OUTFALL 1 & 2
MITIGATED CONDITIONS SWMM LAYOUT



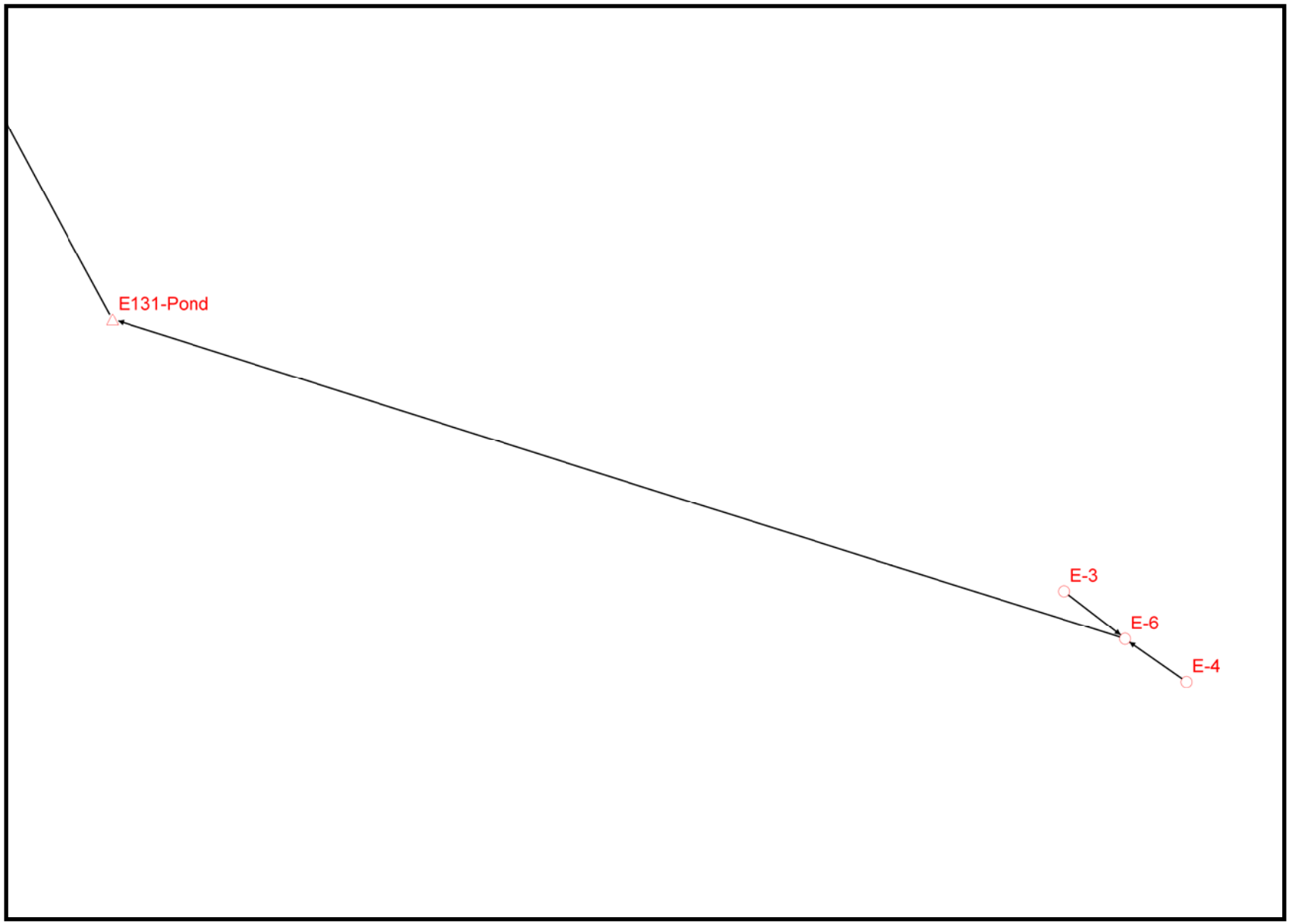
OUTFALL 1 & 2
MITIGATED CONDITIONS SWMM LAYOUT



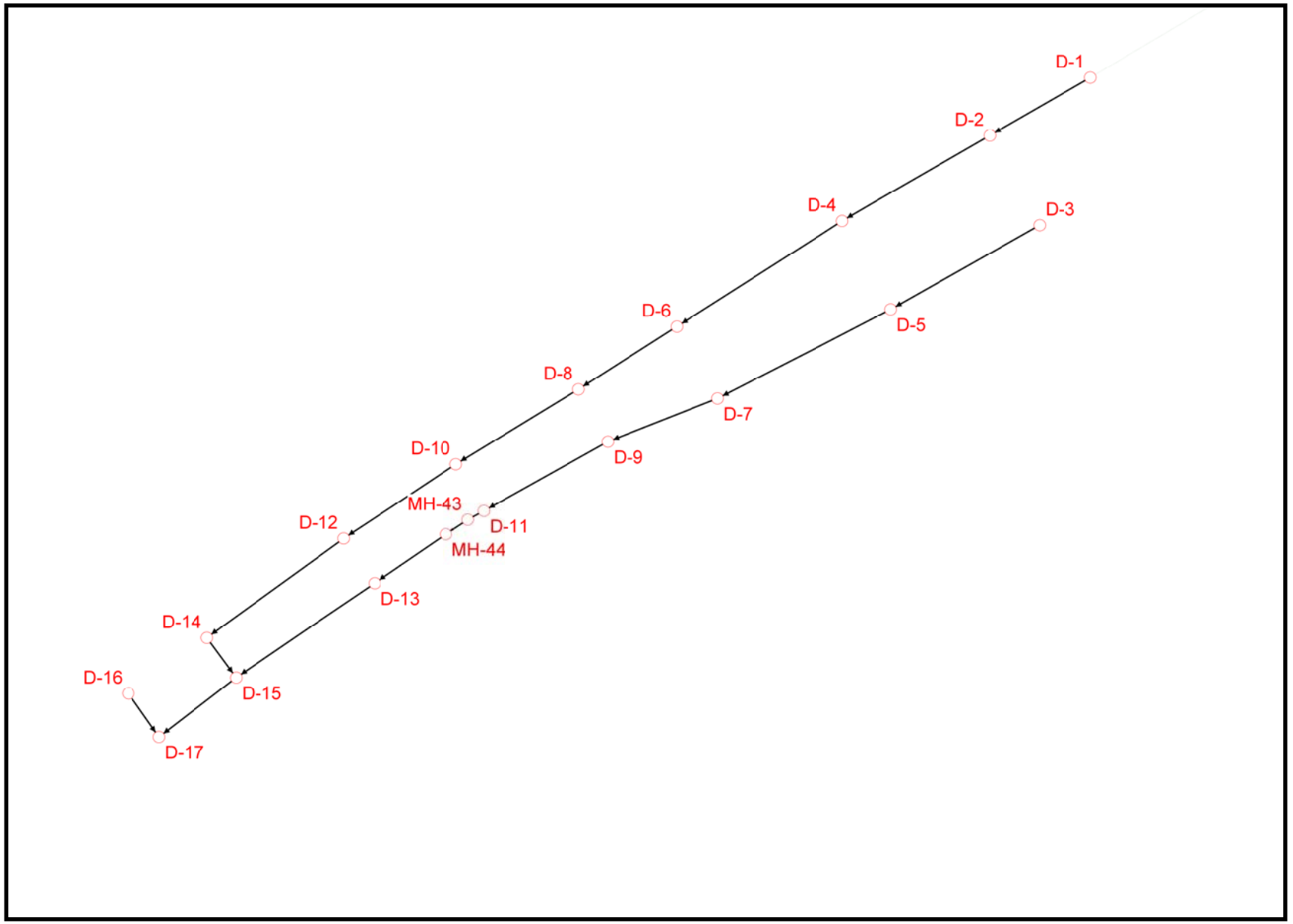
OUTFALL 1 & 2
MITIGATED CONDITIONS SWMM LAYOUT



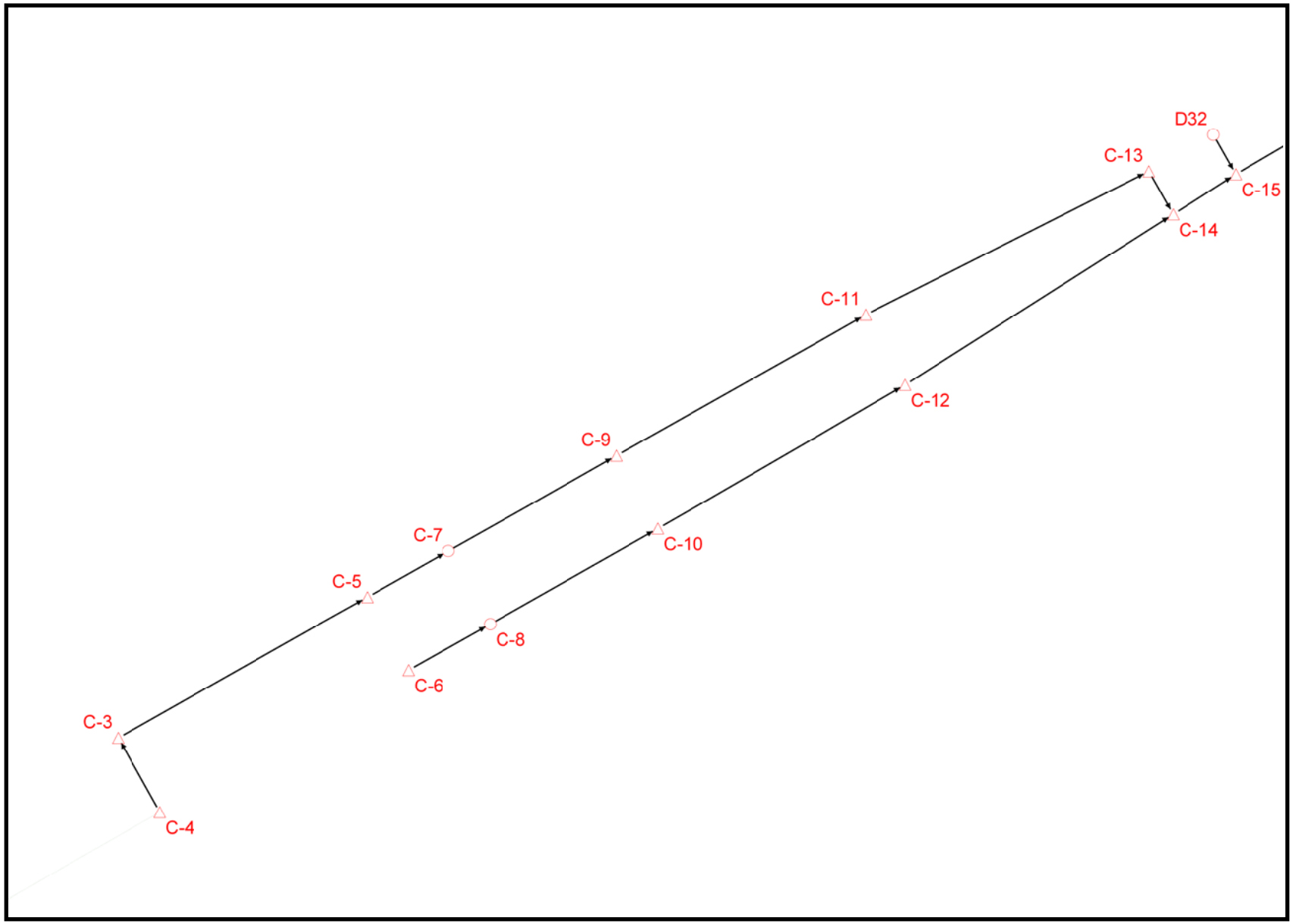
OUTFALL 1 & 2
MITIGATED CONDITIONS SWMM LAYOUT



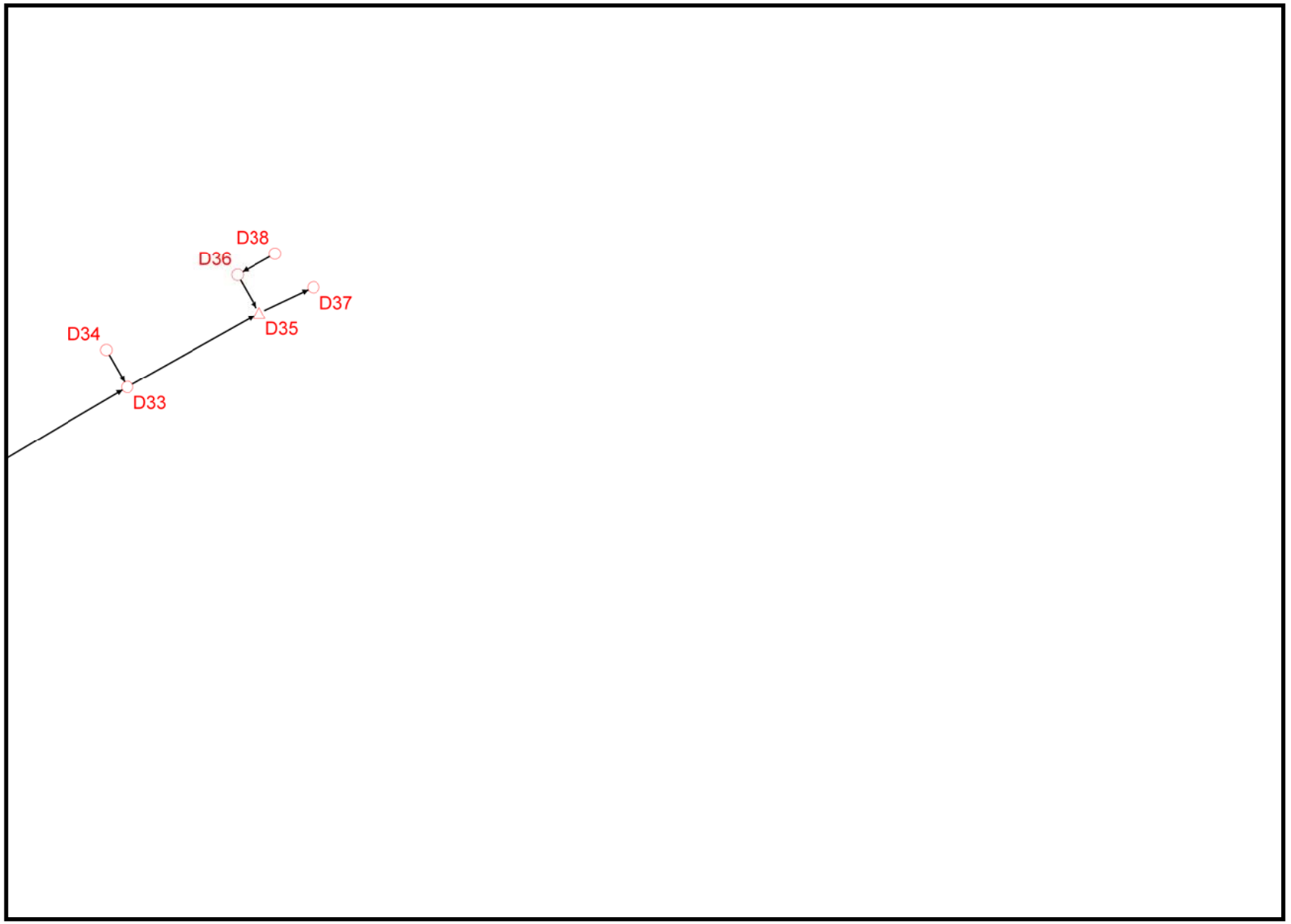
OUTFALL 3
MITIGATED CONDITIONS SWMM LAYOUT



OUTFALL 4
MITIGATED CONDITIONS SWMM LAYOUT



OUTFALL 4
MITIGATED CONDITIONS SWMM LAYOUT



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 Current Directory:   C:\XPS\xpstorm
 Engine Name: C:\XPS\xpstorm\SWMMEN~1.EXE


 Input File : C\PhaseII\DRA\Models\SWMM\Segment E\100YR_SegE_Mitigation-Alt1.XP

          *================================================*
          |                     xpswmm                     |
          |     Storm and Wastewater Management Model      |
          |           Interface Version: 10.52             |
          |              Engine Version: 10.54             |
          |================================================|
          |                                                |
          |                 Developed by                   |
          |                                                |
          |                 XP Software                    |
          |                                                |
          |================================================|
          |      XP Software       November, 2006          |
          |       Data File Version --->    11.9           |
          |       Serial Number: 66-1052-0602              |
          |                H & H Resources                 |
          *================================================*

Engine Name: C:\XPS\xpstorm\SWMMEN~1.EXE


*====================================================*
|       Input and Output file names by Layer         |
*====================================================*

 Input File  to Layer #     1 JOT.US
 Output File to Layer #     1 JOT.US

*============================================================*
|   Special command line arguments in XP-SWMM2000. This     |
|   now includes program defaults. $Keywords are the program|
|   defaults.  Other Keywords are from the SWMMCOM.CFG file.|
|   or the command line or any cfg file on the command line.|
|   Examples include these in the file xpswm.bat under the   |
|   section :solve or in the windows version XPSWMM32 in the|
|   file solve.bat                                           |
|                                                            |
|   Note: the cfg file should be in the subdirectory swmxp   |
|         or defined by the set variable in the xpswm.bat    |
|         file.  Some examples of the command lines possible|
|         are shown below:                                   |
|                                                            |
|   swmmd swmmcom.cfg                                        |
|   swmmd my.cfg                                             |
|   swmmd nokeys nconv5 perv extranwq                        |
*============================================================*

 $powerstation                        0.0000         1         2
 $perv                                0.0000         0         4
 $oldegg                              0.0000         0         7
 $as                                  0.0000         0        11
 $noflat                              0.0000         0        21
 $oldomega                            0.0000         0        24
 $oldvol                              0.0000         1        28
 $implicit                            0.0000         1        29
 $oldhot                              0.0000         1        31
 $oldscs                              0.0000         0        33
 $flood                               0.0000         1        40
 $nokeys                              0.0000         0        42
 $pzero                               0.0000         0        55
 $oldvol2                             0.0000         2        59
 $storage2                            0.0000         3        62
 $oldhot1                             0.0000         1        63
 $pumpwt                              0.0000         1        70
 $ecloss                              0.0000         1        77
 $exout                               0.0000         0        97
 $spatial = 0.90                      0.9000         5       124
 $djref = -1.0                       -0.1000         3       143
 $weirlen = 50                       50.0000         1       153
 $oldbnd                              0.0000         1       154
 $nogrelev                            0.0000         1       161
 $ncmid                               0.0000         0       164
 $new_nl_97                           0.0000         2       290
 $best97                              0.0000         1       294
 $newbound                            0.0000         1       295
 $q_tol = 0.01                        0.0001         1       316
 $new_storage                         0.0000         1       322
 $old_iteration                       0.0000         1       333
 $minlen=30.0                        30.0000         1       346
 $review_elevation                    0.0000         1       383
 $use_half_volume                     0.0000         1       385
 $min_ts = 0.5                        0.5000         1       407
 $design_restart = on                 0.0000         1       412
 $zero_value=1.e-05                   0.0000         1       415
 $relax_depth = on                    0.0000         1       427
 $saveallpts = on                     0.0000         1       434

 *============================================================*
 | Parameter Values on the Tapes Common Block.These are the |
 | values read from the data file and dynamically allocated |
 | by the model for this simulation.                        |
 *============================================================*

  Number of Subcatchments in the Runoff Block (NW)....     0
  Number of Channel/Pipes in the Runoff Block (NG)....     0
  Runoff Water quality constituents (NRQ).............     0
  Runoff Land Uses per Subcatchment (NLU).............     0
  Number of Elements in the Transport Block (NET).....     0
  Number of Storage Junctions in Transport (NTSE).....     0
  Number of Input Hydrographs in Transport (NTH)......     0
  Number of Elements in the Extran Block (NEE)........   288
  Number of Groundwater Subcatchments in Runoff (NGW).     0
  Number of Interface locations for all Blocks (NIE)..   288
  Number of Pumps in Extran (NEP).....................     0
  Number of Orifices in Extran (NEO)..................     1
  Number of Tide Gates/Free Outfalls in Extran (NTG)..     6
  Number of Extran Weirs (NEW)........................     1
  Number of scs hydrograph points.....................     1
  Number of Extran printout locations (NPO)...........     1
  Number of Tide elements in Extran (NTE).............     6
  Number of Natural channels (NNC)....................     3
  Number of Storage junctions in Extran (NVSE)........    93
  Number of Time history data points in Extran(NTVAL).     7
  Number of Variable storage elements in Extran (NVST)     6
  Number of Input Hydrographs in Extran (NEH).........   179
  Number of Particle sizes in Transport Block (NPS)...     0
  Number of User defined conduits (NHW)...............   288
  Number of Connecting conduits in Extran (NECC)......    20
  Number of Upstream elements in Transport (NTCC).....    10
  Number of Storage/treatment plants (NSTU)...........     1
```

```
 Number of Values for R1 lines in Transport (NR1)....     0
 Number of Nodes to be allowed for (NNOD)............   288
 Number of Plugs in a Storage Treatment Unit.........     1


#####################################################
#    Entry made to the HYDRAULIC Layer(Block) of SWMM #
#    Last Updated June,2005 by XP Software            #



*============================================================*
|        HYDRAULICS TABLES IN THE OUTPUT FILE                |
|  These are the more important tables in the output file.   |
|  You can use your editor to find the table numbers,        |
|  for example: search for Table E20 to check continuity.    |
|  This output file can be imported into a Word Processor    |
|  and printed on US letter or A4 paper using portrait       |
|  mode, courier font, a size of 8 pt. and margins of 0.75   |
|                                                            |
| Table E1   - Basic Conduit Data                            |
| Table E2   - Conduit Factor Data                           |
| Table E3a  - Junction Data                                 |
| Table E3b  - Junction Data                                 |
| Table E4   - Conduit Connectivity Data                     |
| Table E4a  - Dry Weather Flow Data                         |
| Table E4b  - Real Time Control Data                        |
| Table E5   - Junction Time Step Limitation Summary         |
| Table E5a  - Conduit Explicit Condition Summary            |
| Table E6   - Final Model Condition                         |
| Table E7   - Iteration Summary                             |
| Table E8   - Junction Time Step Limitation Summary         |
| Table E9   - Junction  Summary  Statistics                 |
| Table E10  - Conduit   Summary  Statistics                 |
| Table E11  - Area assumptions used in the analysis         |
| Table E12  - Mean conduit information                      |
| Table E13  - Channel losses(H) and culvert info            |
| Table E13a - Culvert Analysis Classification               |
| Table E14  - Natural Channel Overbank Flow Information     |
| Table E14a - Natural Channel Encroachment Information      |
| Table E14b - Floodplain Mapping                            |
| Table E15  - Spreadsheet Info List                         |
| Table E15a - Spreadsheet Reach List                        |
| Table E16  - New Conduit Output Section                    |
| Table E17  - Pump Operation                                |
| Table E18  - Junction Continuity Error                     |
| Table E19  - Junction Inflow & Outflow Listing             |
| Table E20  - Junction Flooding and Volume List             |
| Table E21  - Continuity balance at simulation end          |
| Table E22  - Model Judgement Section                       |
*============================================================*

Time Control from Hydraulics Job Control
Year.........    2007 Month.......       1
Day..........       1 Hour........       0
Minute.......       0 Second......       0


Control information for simulation
----------------------------------

Integration cycles..................     86400
Length of integration step is......      1.00 seconds
Simulation length...................     24.00 hours
Do not create equiv. pipes(NEQUAL).         0
Use U.S. customary units for I/O...         0
Printing starts in cycle...........         1
Intermediate printout intervals of.       500 cycles
Intermediate printout intervals of.      8.33 minutes
Summary printout intervals of......       500 cycles
Summary printout time interval of..      8.33 minutes
Hot start file parameter (REDO)....         0
Initial time.......................      0.00 hours

Iteration variables: Flow Tolerance.   0.00010
                     Head Tolerance.   0.00010
    Minimum depth (m or ft).........   0.00001
    Underrelaxation parameter.......   0.85000
    Time weighting parameter........   0.85000
    Conduit roughness factor........   1.00000
    Flow adjustment factor..........   1.00000
    Initial Condition Smoothing.....         0
    Courant Time Step Factor........   1.00000
    Default Expansion/Contraction K.   0.00000
    Default Entrance/Exit K.........   0.00000
    Routing Method..................   Dynamic Wave
Default surface area of junctions...     12.57 square feet.
Minimum Junction/Conduit Depth......   0.00001 feet.
Ponding Area Coefficient............   5000.00
Ponding Area Exponent...............    1.0000
Minimum Orifice Length..............    500.00 feet.
NJSW input hydrograph junctions.....   179
     or user defined hydrographs....

Printed output for the following  1 Conduits

    E131

Flow rate will be plotted for the following   1 Conduits

    E131

        Natural Cross-Section information for Channel BF63-BF61
        =======================================================
         Cross-Section ID (from X1 card) :     1.0 Channel sequence number :     1

  Left Overbank Length   :     40.0 ft               Maximum Elevation        :   125.72 ft.
  Main Channel Length    :     40.0 ft               Maximum Depth            :     5.10 ft.
  Right Overbank Length  :     40.0 ft               Maximum Section Area     :  44.5500 ft^2
                                                     Maximum hydraulic radius :     1.36 ft.
  Manning N :      0.013  to Station           0.0    Max topwidth             :    30.00 ft.
    "    "  :      0.013  in main Channel             Maximum Wetted Perimeter : 3.27E+01 ft
    "    "  :      0.013  Beyond station      40.0    Max left bank area       :     0.00 ft^2
                                                     Max right bank area      :     0.00 ft^2
  Allowable Encroachment Depth :    0.00 ft          Max center channel area  :  44.5500 ft^2

        Natural Cross-Section information for Channel E100
        ==================================================
         Cross-Section ID (from X1 card) :     2.0 Channel sequence number :     2

  Left Overbank Length   :   1206.0 ft               Maximum Elevation        :   146.49 ft.
  Main Channel Length    :   1206.0 ft               Maximum Depth            :    23.55 ft.
  Right Overbank Length  :   1206.0 ft               Maximum Section Area     : 73906.43 ft^2
                                                     Maximum hydraulic radius :    13.92 ft.
  Manning N :      0.080  to Station        4974.1    Max topwidth             :  5303.50 ft.
    "    "  :      0.035  in main Channel             Maximum Wetted Perimeter : 5.31E+03 ft
```

" " : 0.120 Beyond station 5032.3 Max left bank area : 47218.10 ft^2
Max right bank area : 25622.74 ft^2
Allowable Encroachment Depth : 0.00 ft Max center channel area : 1065.593 ft^2

Natural Cross-Section information for Channel E131

Cross-Section ID (from X1 card) : 3.0 Channel sequence number : 3

Left Overbank Length : 475.0 ft Maximum Elevation : 127.50 ft.
Main Channel Length : 475.0 ft Maximum Depth : 9.65 ft.
Right Overbank Length : 475.0 ft Maximum Section Area : 469.8350 ft^2
Maximum hydraulic radius : 3.82 ft.
Manning N : 0.050 to Station 135.1 Max topwidth : 120.47 ft.
" " : 0.040 in main Channel Maximum Wetted Perimeter : 1.23E+02 ft
" " : 0.050 Beyond station 201.0 Max left bank area : 58.66 ft^2
Max right bank area : 24.18 ft^2
Allowable Encroachment Depth : 0.00 ft Max center channel area : 386.9936 ft^2

Table E1 - Conduit Data

Inp Num	Conduit Name	Length (ft)	Conduit Class	Area (ft^2)	Manning Coef.	Max Width (ft)	Depth (ft)	Trapezoid Side Slopes
1	BF63-BF61	40.0000	Natural	44.5500	0.0130	30.0000	5.1000	
2	L-B-65	162.0680	Circular	3.1416	0.0130	2.0000	2.0000	
3	E100	1206.0000	Natural	73906.426	0.0350	5303.5000	23.5500	
4	E131	475.0000	Natural	469.8350	0.0400	120.4700	9.6500	
5	D31-D33	352.0000	Rectangle	30.0000	0.0130	6.0000	5.0000	
6	D33-D35	258.0000	Rectangle	30.0000	0.0130	6.0000	5.0000	
7	D35-D37	107.0000	Rectangle	36.0000	0.0130	6.0000	6.0000	
8	D32-D31	71.0000	Circular	4.9087	0.0130	2.5000	2.5000	
9	D34-D33	71.0000	Circular	3.1416	0.0130	2.0000	2.0000	
10	D38-D36	73.0000	Circular	1.7671	0.0130	1.5000	1.5000	
11	D36-D35	71.0000	Circular	1.7671	0.0130	1.5000	1.5000	
12	L-A-10	173.2100	Rectangle	15.0000	0.0130	5.0000	3.0000	
13	L-A-11	79.7130	Rectangle	15.0000	0.0130	5.0000	3.0000	
14	L-A-12	123.3740	Rectangle	15.0000	0.0130	5.0000	3.0000	
15	L-A-13	351.5340	Rectangle	18.0000	0.0130	6.0000	3.0000	
16	L-A-14	228.3090	Rectangle	18.0000	0.0130	6.0000	3.0000	
17	L-A-15	490.4330	Rectangle	18.0000	0.0130	6.0000	3.0000	
18	L-A-16	136.1570	Rectangle	18.0000	0.0130	6.0000	3.0000	
19	L-A-17	188.0850	Rectangle	18.0000	0.0130	6.0000	3.0000	
20	L-A-18	116.7060	Rectangle	18.0000	0.0130	6.0000	3.0000	
21	L-A-19	163.2970	Rectangle	18.0000	0.0130	6.0000	3.0000	
22	L-A-20	215.3870	Rectangle	18.0000	0.0130	6.0000	3.0000	
23	L-A-21	34.8690	Rectangle	18.0000	0.0130	6.0000	3.0000	
24	L-A-22	478.6110	Circular	12.5664	0.0130	4.0000	4.0000	
25	L-A-23	178.3650	Circular	9.6211	0.0130	3.5000	3.5000	
26	L-A-24	105.7110	Circular	9.6211	0.0130	3.5000	3.5000	
27	L-A-25	91.8360	Circular	7.0686	0.0130	3.0000	3.0000	
28	L-A-26	91.0530	Circular	3.1416	0.0130	2.0000	2.0000	
29	L-A-27	200.3550	Circular	9.6211	0.0130	3.5000	3.5000	
30	L-A-3	217.0140	Rectangle	8.0000	0.0130	4.0000	2.0000	
31	L-A-33	54.1400	Circular	7.0686	0.0130	3.0000	3.0000	
32	L-A-35	64.2690	Circular	1.7671	0.0130	1.5000	1.5000	
33	L-A-36	53.8790	Circular	1.7671	0.0130	1.5000	1.5000	
34	L-A-37	298.6800	Rectangle	15.0000	0.0130	5.0000	3.0000	
35	L-A-39	56.7500	Circular	1.7671	0.0130	1.5000	1.5000	
36	L-A-40	151.2670	Rectangle	18.0000	0.0130	6.0000	3.0000	
37	L-A-41	300.0000	Rectangle	18.0000	0.0130	6.0000	3.0000	
38	L-A-42	56.8760	Circular	1.7671	0.0130	1.5000	1.5000	
39	L-A-43	56.8760	Circular	1.7671	0.0130	1.5000	1.5000	
40	L-A-44	448.7390	Rectangle	18.0000	0.0130	6.0000	3.0000	
41	L-A-45	650.0000	Rectangle	24.0000	0.0130	6.0000	4.0000	
42	L-A-46	600.0000	Rectangle	24.0000	0.0130	6.0000	4.0000	
43	L-A-47	700.0000	Rectangle	24.0000	0.0130	6.0000	4.0000	
44	L-A-48	950.0000	Rectangle	24.0000	0.0130	6.0000	4.0000	
45	L-A-49	400.6800	Rectangle	24.0000	0.0130	6.0000	4.0000	
46	L-A-50	518.7400	Circular	4.9087	0.0130	2.5000	2.5000	
47	L-A-51	130.0720	Circular	4.9087	0.0130	2.5000	2.5000	
48	L-A-53	259.1340	Circular	4.9087	0.0130	2.5000	2.5000	
49	L-A-54	263.5740	Circular	9.6211	0.0130	3.5000	3.5000	
50	L-A-55	235.7200	Circular	9.6211	0.0130	3.5000	3.5000	
51	L-A-56	299.5150	Circular	12.5664	0.0130	4.0000	4.0000	
52	L-A-57	299.6730	Circular	12.5664	0.0130	4.0000	4.0000	
53	L-A-58	99.4200	Circular	12.5664	0.0130	4.0000	4.0000	
54	L-A-59	287.1560	Circular	1.7671	0.0130	1.5000	1.5000	
55	L-A-60	287.3730	Circular	3.1416	0.0130	2.0000	2.0000	
56	L-A-61	40.9940	Circular	4.9087	0.0130	2.5000	2.5000	
57	L-A-64	200.2020	Circular	3.1416	0.0130	2.0000	2.0000	
58	L-A-65	299.4310	Circular	3.1416	0.0130	2.0000	2.0000	
59	L-A-66	277.6130	Circular	4.9087	0.0130	2.5000	2.5000	
60	L-A-67	45.0000	Circular	7.0686	0.0130	3.0000	3.0000	
61	L-A-68	559.9640	Circular	7.0686	0.0130	3.0000	3.0000	
62	L-A-73	54.0000	Circular	4.9087	0.0130	2.5000	2.5000	
63	L-A-75	600.0000	Circular	12.5664	0.0130	4.0000	4.0000	
64	L-A-76	600.0000	Circular	12.5664	0.0130	4.0000	4.0000	
65	L-A-77	35.0000	Circular	4.9087	0.0130	2.5000	2.5000	
66	L-A-78	600.0000	Circular	12.5664	0.0130	4.0000	4.0000	
67	L-A-79	35.0000	Circular	3.1416	0.0130	2.0000	2.0000	
68	L-A-80	414.7300	Circular	12.5664	0.0130	4.0000	4.0000	
69	L-A-81	35.0000	Circular	4.9087	0.0130	2.5000	2.5000	
70	L-A-82	440.5750	Rectangle	40.0000	0.0130	8.0000	5.0000	
71	L-A-83	390.9700	Rectangle	40.0000	0.0130	8.0000	5.0000	
72	L-A-84	300.1980	Circular	1.7671	0.0130	1.5000	1.5000	
73	L-A-85	150.1800	Circular	1.7671	0.0130	1.5000	1.5000	
74	L-A-86	363.0800	Circular	3.1416	0.0130	2.0000	2.0000	
75	L-A-87	387.9980	Circular	3.1416	0.0130	2.0000	2.0000	
76	L-A-88	68.5660	Circular	4.9087	0.0130	2.5000	2.5000	
77	L-A-89	44.0000	Rectangle	20.0000	0.0130	5.0000	4.0000	
78	L-A-9	82.8720	Rectangle	10.0000	0.0130	5.0000	2.0000	
79	L-A-90	102.5000	Rectangle	20.0000	0.0130	5.0000	4.0000	
80	L-A-91	87.3340	Rectangle	20.0000	0.0130	5.0000	4.0000	
81	L-A-92	8.1750	Rectangle	20.0000	0.0130	5.0000	4.0000	
82	L-A-93	10.9930	Rectangle	20.0000	0.0130	5.0000	4.0000	
83	L-A-94	55.0250	Circular	12.5664	0.0130	4.0000	4.0000	
84	L-A-95	12.0000	Rectangle	16.0000	0.0130	4.0000	4.0000	
85	L-B-1	250.0150	Circular	1.7671	0.0130	1.5000	1.5000	
86	L-B-11	49.0000	Circular	3.1416	0.0130	2.0000	2.0000	
87	L-B-12	549.9040	Rectangle	40.0000	0.0130	8.0000	5.0000	
88	L-B-13	150.0000	Rectangle	40.0000	0.0130	8.0000	5.0000	
89	L-B-14	49.0000	Circular	3.1416	0.0130	2.0000	2.0000	
90	L-B-15	93.0100	Rectangle	40.0000	0.0130	8.0000	5.0000	
91	L-B-16	200.0010	Circular	1.7671	0.0130	1.5000	1.5000	
92	L-B-17	200.1590	Circular	1.7671	0.0130	1.5000	1.5000	
93	L-B-18	63.7960	Circular	3.1416	0.0130	2.0000	2.0000	
94	L-B-19	242.8830	Circular	3.1416	0.0130	2.0000	2.0000	
95	L-B-20	223.2410	Circular	12.5664	0.0130	4.0000	4.0000	
96	L-B-21	271.5270	Circular	1.7671	0.0130	1.5000	1.5000	
97	L-B-23	562.3460	Circular	4.9087	0.0130	2.5000	2.5000	
98	L-B-24	48.5500	Circular	7.0686	0.0130	3.0000	3.0000	
99	L-B-25	198.5350	Circular	15.9043	0.0130	4.5000	4.5000	
100	L-B-27	205.3070	Circular	15.9043	0.0130	4.5000	4.5000	
101	L-B-28	114.4430	Circular	3.1416	0.0130	2.0000	2.0000	
102	L-B-29	384.5430	Circular	15.9043	0.0130	4.5000	4.5000	

103	L-B-30	542.0540	Circular	15.9043	0.0130	4.5000	4.5000		
104	L-B-31	82.3840	Circular	4.9087	0.0130	2.5000	2.5000		
105	L-B-32	509.6840	Circular	15.9043	0.0130	4.5000	4.5000		
106	L-B-33	605.2840	Circular	15.9043	0.0130	4.5000	4.5000		
107	L-B-34	91.9790	Circular	3.1416	0.0130	2.0000	2.0000		
108	L-B-35	70.9980	Circular	15.9043	0.0130	4.5000	4.5000		
109	L-B-36	138.1040	Circular	3.1416	0.0130	2.0000	2.0000		
110	L-B-37	133.1320	Circular	3.1416	0.0130	2.0000	2.0000		
111	L-B-38	136.1890	Circular	4.9087	0.0130	2.5000	2.5000		
112	L-B-39	69.0870	Circular	7.0686	0.0130	3.0000	3.0000		
113	L-B-4	166.4600	Circular	4.9087	0.0130	2.5000	2.5000		
114	L-B-40	149.3110	Circular	7.0686	0.0130	3.0000	3.0000		
115	L-B-41	107.2070	Circular	7.0686	0.0130	3.0000	3.0000		
116	L-B-42	260.2860	Circular	7.0686	0.0130	3.0000	3.0000		
117	L-B-43	132.6810	Circular	9.6211	0.0130	3.5000	3.5000		
118	L-B-44	124.8480	Circular	9.6211	0.0130	3.5000	3.5000		
119	L-B-45	94.3310	Circular	12.5664	0.0130	4.0000	4.0000		
120	L-B-46	44.5590	Circular	1.7671	0.0130	1.5000	1.5000		
121	L-B-47	234.8050	Circular	12.5664	0.0130	4.0000	4.0000		
122	L-B-48	71.2140	Circular	12.5664	0.0130	4.0000	4.0000		
123	L-B-49	137.3160	Circular	12.5664	0.0130	4.0000	4.0000		
124	L-B-5	699.9250	Rectangle	40.0000	0.0130	8.0000	5.0000		
125	L-B-50	78.0840	Circular	12.5664	0.0130	4.0000	4.0000		
126	L-B-51	81.3500	Circular	12.5664	0.0130	4.0000	4.0000		
127	L-B-52	639.0000	Circular	9.6211	0.0130	3.5000	3.5000		
128	L-B-53	451.7070	Circular	12.5664	0.0130	4.0000	4.0000		
129	L-B-54	399.9040	Circular	12.5664	0.0130	4.0000	4.0000		
130	L-B-55	108.5140	Circular	12.5664	0.0130	4.0000	4.0000		
131	L-B-56	313.7820	Circular	4.9087	0.0130	2.5000	2.5000		
132	L-B-57	120.4720	Circular	7.0686	0.0130	3.0000	3.0000		
133	L-B-58	367.2710	Circular	9.6211	0.0130	3.5000	3.5000		
134	L-B-59	64.0830	Circular	9.6211	0.0130	3.5000	3.5000		
135	L-B-60	10.6170	Rectangle	35.0000	0.0130	7.0000	5.0000		
136	L-B-61	43.4490	Rectangle	35.0000	0.0130	7.0000	5.0000		
137	L-B-62	45.0240	Rectangle	35.0000	0.0130	7.0000	5.0000		
138	L-B-63	108.2240	Circular	15.9043	0.0130	4.5000	4.5000		
139	L-B-64	152.8050	Circular	15.9043	0.0130	4.5000	4.5000		
140	L-B-66	173.4320	Circular	4.9087	0.0130	2.5000	2.5000		
141	L-B-67	91.7670	Circular	4.9087	0.0130	2.5000	2.5000		
142	L-B-68	117.6970	Circular	7.0686	0.0130	3.0000	3.0000		
143	L-B-69	212.1540	Circular	9.6211	0.0130	3.5000	3.5000		
144	L-B-70	96.2520	Circular	9.6211	0.0130	3.5000	3.5000		
145	L-B-71	44.8280	Circular	9.6211	0.0130	3.5000	3.5000		
146	L-B-72	195.8400	Circular	9.6211	0.0130	3.5000	3.5000		
147	L-B-73	103.4300	Circular	12.5664	0.0130	4.0000	4.0000		
148	L-B-76	30.2020	Circular	15.9043	0.0130	4.5000	4.5000		
149	L-B-77	89.6840	Circular	15.9043	0.0130	4.5000	4.5000		
150	L-B-78	54.8300	Circular	15.9043	0.0130	4.5000	4.5000		
151	L-B-79	127.5250	Circular	15.9043	0.0130	4.5000	4.5000		
152	L-B-8	299.5390	Rectangle	40.0000	0.0130	8.0000	5.0000		
153	L-B-80	158.1460	Circular	15.9043	0.0130	4.5000	4.5000		
154	L-B-81	73.7580	Circular	1.7671	0.0130	1.5000	1.5000		
155	L-B-82	95.3380	Circular	15.9043	0.0130	4.5000	4.5000		
156	L-B-83	238.6370	Circular	15.9043	0.0130	4.5000	4.5000		
157	L-B-84	249.4410	Rectangle	25.0000	0.0130	5.0000	5.0000		
158	L-B-85	288.0800	Rectangle	25.0000	0.0130	5.0000	5.0000		
159	L-B-86	89.6390	Rectangle	25.0000	0.0130	5.0000	5.0000		
160	L-B-87	107.1510	Rectangle	25.0000	0.0130	5.0000	5.0000		
161	L-B-88	33.8260	Circular	1.7671	0.0130	1.5000	1.5000		
162	L-B-89	222.2280	Rectangle	25.0000	0.0130	5.0000	5.0000		
163	L-B-9	399.2100	Rectangle	40.0000	0.0130	8.0000	5.0000		
164	L-B-90	48.2770	Circular	1.7671	0.0130	1.5000	1.5000		
165	L-B-91	55.5270	Circular	1.7671	0.0130	1.5000	1.5000		
166	L-B-92	67.3240	Circular	1.7671	0.0130	1.5000	1.5000		
167	L-B-93	69.5890	Circular	1.7671	0.0130	1.5000	1.5000		
168	L-C-2	141.6000	Circular	7.0686	0.0130	3.0000	3.0000		
169	L-C-10	163.0000	Circular	12.5664	0.0130	4.0000	4.0000		
170	L-C-11	337.0000	Circular	12.5664	0.0130	4.0000	4.0000		
171	L-C-12	500.2790	Circular	12.5664	0.0130	4.0000	4.0000		
172	L-C-13	553.8380	Circular	12.5664	0.0130	4.0000	4.0000		
173	L-C-14	86.0000	Circular	12.5664	0.0130	4.0000	4.0000		
174	L-C-3	163.1990	Circular	7.0686	0.0130	3.0000	3.0000		
175	L-C-4	337.0010	Circular	9.6211	0.0130	3.5000	3.5000		
176	L-C-5	500.0130	Circular	9.6211	0.0130	3.5000	3.5000		
177	L-C-6	553.9510	Circular	12.5664	0.0130	4.0000	4.0000		
178	L-C-7	129.4430	Rectangle	30.0000	0.0130	6.0000	5.0000		
179	L-C-9	500.0000	Circular	9.6211	0.0130	3.5000	3.5000		
180	L-D-1	202.1610	Circular	4.9087	0.0130	2.5000	2.5000		
181	L-D-10	340.5170	Circular	12.5664	0.0130	4.0000	4.0000		
182	L-D-11	205.6250	Circular	19.6350	0.0130	5.0000	5.0000		
183	L-D-12	247.5840	Circular	19.6350	0.0130	5.0000	5.0000		
184	L-D-13	32.1430	Circular	23.7583	0.0130	5.5000	5.5000		
185	L-D-14	45.6520	Circular	15.9043	0.0130	4.5000	4.5000		
186	L-D-15	150.8770	Circular	23.7583	0.0130	5.5000	5.5000		
187	L-D-16	292.5370	Circular	28.2743	0.0130	6.0000	6.0000		
188	L-D-17	169.5720	Circular	28.2743	0.0130	6.0000	6.0000		
189	L-D-18	92.5110	Circular	3.1416	0.0130	2.0000	2.0000		
190	L-D-2	297.0460	Circular	4.9087	0.0130	2.5000	2.5000		
191	L-D-3	342.1910	Circular	12.5664	0.0130	4.0000	4.0000		
192	L-D-4	204.5560	Circular	12.5664	0.0130	4.0000	4.0000		
193	L-D-5	250.3860	Circular	12.5664	0.0130	4.0000	4.0000		
194	L-D-6	234.6070	Circular	12.5664	0.0130	4.0000	4.0000		
195	L-D-7	295.2480	Circular	12.5664	0.0130	4.0000	4.0000		
196	L-D-8	86.0000	Circular	12.5664	0.0130	4.0000	4.0000		
197	L-D-9	298.3570	Circular	12.5664	0.0130	4.0000	4.0000		
198	L-E-8	477.3100	Rectangle	40.0000	0.0130	8.0000	5.0000		
199	OL-B-1	200.0000	Trapezoid	50.0025	0.0350	100.0000	0.5000	0.0100	0.0100
200	L-E100-P	75.0000	Rectangle	35.0000	0.0130	7.0000	5.0000		
201	L-E-7	260.0000	Rectangle	40.0000	0.0130	8.0000	5.0000		
202	L-E-1	50.0000	Rectangle	28.0000	0.0130	7.0000	4.0000		
203	L-E-2	50.0000	Rectangle	28.0000	0.0130	7.0000	4.0000		
204	L-C-1	157.9200	Circular	4.9087	0.0130	2.5000	2.5000		
205	L-B-94	104.0700	Circular	7.0686	0.0130	3.0000	3.0000		
206	L-E-13	50.0000	Rectangle	40.0000	0.0130	8.0000	5.0000		
207	L-E-12	519.5200	Rectangle	40.0000	0.0130	8.0000	5.0000		
208	L-E-11	167.8800	Rectangle	40.0000	0.0130	8.0000	5.0000		
209	L-E-10	124.9600	Rectangle	40.0000	0.0130	8.0000	5.0000		
210	L-E-9	309.9900	Rectangle	40.0000	0.0130	8.0000	5.0000		
211	L-POND	90.8700	Rectangle	40.0000	0.0130	8.0000	5.0000		
212	L-E-3	50.0000	Circular	15.9043	0.0130	4.5000	4.5000		
213	L-E-4	50.0000	Circular	15.9043	0.0130	4.5000	4.5000		
214	L-E-6	84.0000	Rectangle	35.0000	0.0130	7.0000	5.0000		
215	ss bf63	90.0000	Circular	4.9087	0.0130	2.5000	2.5000		
216	rd bf63	92.0000	Trapezoid	50.0025	0.0150	100.0000	0.5000	0.0100	0.0100
217	SS-A-1	61.6830	Rectangle	8.0000	0.0130	4.0000	2.0000		
218	OL-A-1	61.6830	Trapezoid	7.5025	0.0150	15.0000	0.5000	0.0100	0.0100
219	SS-A-2	83.0500	Rectangle	8.0000	0.0130	4.0000	2.0000		
220	OL-A-2	83.0500	Trapezoid	7.5025	0.0150	15.0000	0.5000	0.0100	0.0100
221	SS-A-28	190.0560	Circular	1.7671	0.0130	1.5000	1.5000		
222	OL-A-28	190.0560	Trapezoid	1.5000	0.0350	0.0100	0.5000	6.0000	6.0000
223	SS-A-29	200.0650	Circular	1.7671	0.0130	1.5000	1.5000		
224	OL-A-29	200.0650	Trapezoid	11.0000	0.0350	5.0000	1.0000	6.0000	6.0000
225	SS-A-30	200.2480	Circular	3.1416	0.0130	2.0000	2.0000		
226	OL-A-30	200.2480	Trapezoid	1.5000	0.0350	0.0100	0.5000	6.0000	6.0000
227	SS-A-31	218.5130	Circular	4.9087	0.0130	2.5000	2.5000		
228	OL-A-31	218.5130	Trapezoid	1.5000	0.0350	0.0100	0.5000	6.0000	6.0000
229	SS-A-32	229.9520	Circular	7.0686	0.0130	3.0000	3.0000		
230	OL-A-32	229.9520	Trapezoid	1.5000	0.0350	0.0100	0.5000	6.0000	6.0000

231	SS-A-34	93.5930	Rectangle	15.0000	0.0130	5.0000	3.0000		
232	OL-A-34	93.5930	Trapezoid	19.0025	0.0150	38.0000	0.5000	0.0100	0.0100
233	SS-A-38	148.3640	Rectangle	18.0000	0.0130	6.0000	3.0000		
234	OL-A-38	148.3640	Trapezoid	19.0025	0.0150	38.0000	0.5000	0.0100	0.0100
235	SS-A-4	86.0730	Rectangle	8.0000	0.0130	4.0000	2.0000		
236	OL-A-4	86.0730	Trapezoid	11.2525	0.0150	22.5000	0.5000	0.0100	0.0100
237	SS-A-5	270.9000	Rectangle	10.0000	0.0130	5.0000	2.0000		
238	OL-A-5	270.9000	Trapezoid	5.6256	0.0150	22.5000	0.2500	0.0100	0.0100
239	SS-A-52	339.9500	Circular	4.9087	0.0130	2.5000	2.5000		
240	OL-A-52	339.9500	Trapezoid	13.0025	0.0150	26.0000	0.5000	0.0100	0.0100
241	SS-A-6	43.1080	Rectangle	10.0000	0.0130	5.0000	2.0000		
242	OL-A-6	43.1080	Trapezoid	11.2525	0.0150	22.5000	0.5000	0.0100	0.0100
243	SS-A-62	190.0000	Circular	1.7671	0.0130	1.5000	1.5000		
244	OL-A-62	190.0000	Trapezoid	4.0000	0.0350	5.0000	0.5000	6.0000	6.0000
245	SS-A-63	200.2020	Circular	1.7671	0.0130	1.5000	1.5000		
246	OL-A-63	200.2020	Trapezoid	4.0000	0.0350	5.0000	0.5000	6.0000	6.0000
247	SS-A-69	400.0000	Circular	7.0686	0.0130	3.0000	3.0000		
248	OL-A-69	400.0000	Trapezoid	18.0025	0.0150	36.0000	0.5000	0.0100	0.0100
249	SS-A-7	85.7580	Rectangle	10.0000	0.0130	5.0000	2.0000		
250	OL-A-7	150.0000	Trapezoid	19.0025	0.0150	38.0000	0.5000	0.0100	0.0100
251	SS-A-70	400.0000	Circular	1.7671	0.0130	1.5000	1.5000		
252	OL-A-70	400.0000	Trapezoid	0.0400	0.0350	0.0100	2.0000	0.0100	0.0100
253	SS-A-71	400.0000	Circular	1.7671	0.0130	1.5000	1.5000		
254	OL-A-71	400.0000	Trapezoid	0.0400	0.0350	0.0100	2.0000	0.0100	0.0100
255	SS-A-72	164.4650	Circular	9.6211	0.0130	3.5000	3.5000		
256	OL-A-72	164.4650	Trapezoid	19.0025	0.0150	38.0000	0.5000	0.0100	0.0100
257	SS-A-74	335.6080	Circular	12.5664	0.0130	4.0000	4.0000		
258	OL-A-74	335.6080	Trapezoid	19.0025	0.0150	38.0000	0.5000	0.0100	0.0100
259	SS-A-8	215.2130	Rectangle	10.0000	0.0130	5.0000	2.0000		
260	OL-A-8	150.0000	Trapezoid	19.0025	0.0150	38.0000	0.5000	0.0100	0.0100
261	SS-B-10	199.8800	Rectangle	40.0000	0.0130	8.0000	5.0000		
262	OL-B-10	199.8800	Trapezoid	13.0025	0.0150	26.0000	0.5000	0.0100	0.0100
263	SS-B-2	25.8850	Circular	1.7671	0.0130	1.5000	1.5000		
264	OL-B-2	25.8850	Trapezoid	13.0025	0.0150	26.0000	0.5000	0.0100	0.0100
265	SS-B-22	87.7830	Circular	4.9087	0.0130	2.5000	2.5000		
266	OL-B-22	87.7830	Trapezoid	31.0025	0.0150	62.0000	0.5000	0.0100	0.0100
267	SS-B-26	57.2150	Circular	1.7671	0.0130	1.5000	1.5000		
268	OL-B-26	57.2150	Trapezoid	50.0025	0.0150	100.0000	0.5000	0.0100	0.0100
269	SS-B-3	46.1080	Circular	3.1416	0.0130	2.0000	2.0000		
270	OL-B-3	46.1080	Trapezoid	50.0025	0.0350	100.0000	0.5000	0.0100	0.0100
271	SS-B-6	349.6250	Rectangle	40.0000	0.0130	8.0000	5.0000		
272	OL-B-6	349.6250	Trapezoid	13.0025	0.0150	26.0000	0.5000	0.0100	0.0100
273	SS-B-7	149.9250	Rectangle	40.0000	0.0130	8.0000	5.0000		
274	OL-B-7	149.9250	Trapezoid	13.0025	0.0150	26.0000	0.5000	0.0100	0.0100
275	SS-B-74	136.7780	Circular	12.5664	0.0130	4.0000	4.0000		
276	OL-B-74	136.7780	Trapezoid	25.0025	0.0150	50.0000	0.5000	0.0100	0.0100
277	SS-B-75	101.0650	Circular	12.5664	0.0130	4.0000	4.0000		
278	OL-B-75	101.0650	Trapezoid	50.0025	0.0150	100.0000	0.5000	0.0100	0.0100
279	C-1 SS	209.7100	Circular	7.0686	0.0130	3.0000	3.0000		
280	C-1 OL	209.7100	Trapezoid	18.2500	0.0150	36.0000	0.5000	1.0000	1.0000

Total length of all conduits .... 58246.7380 feet

Table E2 - Conduit Factor Data

Conduit Name	Number of Barrels	Entrance Loss Coef	Exit Loss Coef	Exp/Contc Coefficnt	Time Weighting Parameter	Low Flow Roughness Factor	Depth at Which n Changes	Flow Routing
L-A-95	2.0000	0.0000	0.5000	0.0000	0.8500	1.0000	0.0000	Standard - Dynamic Wave
L-B-60	2.0000	0.0000	0.5000	0.0000	0.8500	1.0000	0.0000	Standard - Dynamic Wave
L-B-61	2.0000	0.0000	0.0000	0.0000	0.8500	1.0000	0.0000	Standard - Dynamic Wave
L-B-62	2.0000	0.0000	0.0000	0.0000	0.8500	1.0000	0.0000	Standard - Dynamic Wave
L-E100-P	3.0000	0.0000	0.0000	0.0000	0.8500	1.0000	0.0000	Standard - Dynamic Wave
L-POND	1.0000	0.5000	0.5000	0.0000	0.8500	1.0000	0.0000	Standard - Dynamic Wave
L-E-6	1.0000	0.0000	0.5000	0.0000	0.8500	1.0000	0.0000	Standard - Dynamic Wave
ss bf63	3.0000	0.0000	0.0000	0.0000	0.8500	1.0000	0.0000	Standard - Dynamic Wave

If there are messages about (sqrt(g*d)*dt/dx), or the sqrt(wave celerity)*time step/conduit length in the output file all it means is that the program will lower the internal time step to satisfy this condition (explicit condition). You control the actual internal time step by using the minimum courant time step factor in the HYDRAULICS job control. The message put in words states that the smallest conduit with the fastest velocity will control the time step selection. You have further control by using the modify conduit option in the HYDRAULICS Job Control.

Conduit Name	Courant Ratio
BF63-BF61	0.17
L-B-65	0.05
E100	0.01
E131	0.02
D31-D33	0.04
D33-D35	0.05
D35-D37	0.13
D32-D31	0.13
D34-D33	0.11
D38-D36	0.10
D36-D35	0.10
L-A-10	0.06
L-A-11	0.12
L-A-12	0.08
L-A-13	0.03
L-A-14	0.04
L-A-15	0.02
L-A-16	0.07
L-A-17	0.05
L-A-18	0.08
L-A-19	0.06
L-A-20	0.05
L-A-21	0.28
L-A-22	0.02
L-A-23	0.06
L-A-24	0.10
L-A-25	0.11
L-A-26	0.09
L-A-27	0.05
L-A-3	0.04
L-A-33	0.18
L-A-35	0.11
L-A-36	0.13
L-A-37	0.03
L-A-39	0.12
L-A-40	0.06
L-A-41	0.03
L-A-42	0.12
L-A-43	0.12
L-A-44	0.02

L-A-45	0.02
L-A-46	0.02
L-A-47	0.02
L-A-48	0.01
L-A-49	0.03
L-A-50	0.02
L-A-51	0.07
L-A-53	0.03
L-A-54	0.04
L-A-55	0.05
L-A-56	0.04
L-A-57	0.04
L-A-58	0.11
L-A-59	0.02
L-A-60	0.03
L-A-61	0.22
L-A-64	0.04
L-A-65	0.03
L-A-66	0.03
L-A-67	0.22
L-A-68	0.02
L-A-73	0.17
L-A-75	0.02
L-A-76	0.02
L-A-77	0.26
L-A-78	0.02
L-A-79	0.23
L-A-80	0.03
L-A-81	0.26
L-A-82	0.03
L-A-83	0.03
L-A-84	0.02
L-A-85	0.05
L-A-86	0.02
L-A-87	0.02
L-A-88	0.13
L-A-89	0.26
L-A-9	0.10
L-A-90	0.11
L-A-91	0.13
L-A-92	0.38
L-A-93	0.38
L-A-94	0.21
L-A-95	0.38
L-B-1	0.03
L-B-11	0.16
L-B-12	0.02
L-B-13	0.08
L-B-14	0.16
L-B-15	0.14
L-B-16	0.03
L-B-17	0.03
L-B-18	0.13
L-B-19	0.03
L-B-20	0.05
L-B-21	0.03
L-B-23	0.02
L-B-24	0.20
L-B-25	0.06
L-B-27	0.06
L-B-28	0.07
L-B-29	0.03
L-B-30	0.02
L-B-31	0.11
L-B-32	0.02
L-B-33	0.02
L-B-34	0.09
L-B-35	0.17
L-B-36	0.06
L-B-37	0.06
L-B-38	0.07
L-B-39	0.14
L-B-4	0.05
L-B-40	0.07
L-B-41	0.09
L-B-42	0.04
L-B-43	0.08
L-B-44	0.09
L-B-45	0.12
L-B-46	0.16
L-B-47	0.05
L-B-48	0.16
L-B-49	0.08
L-B-5	0.02
L-B-50	0.15
L-B-51	0.14
L-B-52	0.02
L-B-53	0.03
L-B-54	0.03
L-B-55	0.10
L-B-56	0.03
L-B-57	0.08
L-B-58	0.03
L-B-59	0.17
L-B-60	0.42
L-B-61	0.29
L-B-62	0.28
L-B-63	0.11
L-B-64	0.08
L-B-66	0.05
L-B-67	0.10
L-B-68	0.08
L-B-69	0.05
L-B-70	0.11
L-B-71	0.24
L-B-72	0.05
L-B-73	0.11
L-B-76	0.40
L-B-77	0.13
L-B-78	0.22
L-B-79	0.09
L-B-8	0.04
L-B-80	0.08
L-B-81	0.09
L-B-82	0.13
L-B-83	0.05
L-B-84	0.05
L-B-85	0.04
L-B-86	0.14
L-B-87	0.12
L-B-88	0.21
L-B-89	0.06
L-B-9	0.03
L-B-90	0.14
L-B-91	0.13
L-B-92	0.10
L-B-93	0.10
L-C-2	0.07

L-C-10	0.07
L-C-11	0.03
L-C-12	0.02
L-C-13	0.02
L-C-14	0.13
L-C-3	0.06
L-C-4	0.03
L-C-5	0.02
L-C-6	0.02
L-C-7	0.10
L-C-9	0.02
L-D-1	0.04
L-D-10	0.03
L-D-11	0.06
L-D-12	0.05
L-D-13	0.41
L-D-14	0.26
L-D-15	0.09
L-D-16	0.05
L-D-17	0.08
L-D-18	0.09
L-D-2	0.03
L-D-3	0.03
L-D-4	0.06
L-D-5	0.05
L-D-6	0.05
L-D-7	0.04
L-D-8	0.13
L-D-9	0.04
L-E-8	0.03
OL-B-1	0.02
L-E100-P	0.17
L-E-7	0.05
L-E-1	0.23
L-E-2	0.23
L-C-1	0.06
L-B-94	0.09
L-E-13	0.25
L-E-12	0.02
L-E-11	0.08
L-E-10	0.10
L-E-9	0.04
L-POND	0.14
L-E-3	0.24
L-E-4	0.24
L-E-6	0.15
ss bf63	0.10
rd bf63	0.04
SS-A-1	0.13
OL-A-1	0.07
SS-A-2	0.10
OL-A-2	0.05
SS-A-28	0.04
OL-A-28	0.01
SS-A-29	0.03
OL-A-29	0.02
SS-A-30	0.04
OL-A-30	0.01
SS-A-31	0.04
OL-A-31	0.01
SS-A-32	0.04
OL-A-32	0.01
SS-A-34	0.11
OL-A-34	0.04
SS-A-38	0.07
OL-A-38	0.03
SS-A-4	0.09
OL-A-4	0.05
SS-A-5	0.03
OL-A-5	0.01
SS-A-52	0.03
OL-A-52	0.01
SS-A-6	0.19
OL-A-6	0.09
SS-A-62	0.04
OL-A-62	0.02
SS-A-63	0.03
OL-A-63	0.02
SS-A-69	0.02
OL-A-69	0.01
SS-A-7	0.09
OL-A-7	0.03
SS-A-70	0.02
OL-A-70	0.02
SS-A-71	0.02
OL-A-71	0.02
SS-A-72	0.06
OL-A-72	0.02
SS-A-74	0.03
OL-A-74	0.01
SS-A-8	0.04
OL-A-8	0.03
SS-B-10	0.06
OL-B-10	0.02
SS-B-2	0.23
OL-B-2	0.13
SS-B-22	0.10
OL-B-22	0.05
SS-B-26	0.12
OL-B-26	0.07
SS-B-3	0.17
OL-B-3	0.09
SS-B-6	0.04
OL-B-6	0.01
SS-B-7	0.08
OL-B-7	0.03
SS-B-74	0.08
OL-B-74	0.03
SS-B-75	0.11
OL-B-75	0.04
C-1 SS	0.05
C-1 OL	0.02

==================
| Conduit Volume |
==================

Full pipe or full open conduit volume
Input full depth volume.....   9.0209E+07 cubic feet

===> Warning !! The upstream and downstream junctions for the following conduits
have been reversed to correspond to the positive flow and decreasing
slope convention. A negative flow in the output thus means
the flow was from your original upstream junction to your original
downstream junction. Any initial flow has been multiplied by -1.

1. Conduit #...E131   has been changed.
2. Conduit #...OL-A-2   has been changed.

3. Conduit #...OL-A-30 has been changed.
4. Conduit #...OL-A-32 has been changed.
5. Conduit #...OL-A-4 has been changed.
6. Conduit #...OL-A-52 has been changed.
7. Conduit #...OL-A-7 has been changed.
8. Conduit #...OL-A-72 has been changed.
9. Conduit #...OL-B-2 has been changed.
10. Conduit #...OL-B-22 has been changed.
11. Conduit #...OL-B-26 has been changed.
12. Conduit #...OL-B-3 has been changed.
13. Conduit #...OL-B-7 has been changed.
14. Conduit #...OL-B-74 has been changed.
15. Conduit #...OL-B-75 has been changed.
16. Conduit #...C-1 OL has been changed.

Table E3a - Junction Data

Inp Num	Junction Name	Ground Elevation	Crown Elevation	Invert Elevation	Qinst cfs	Initial Depth-ft	Interface Flow (%)
1	MH-32	131.9200	126.4900	116.8400	0.0000	0.0000	100.0000
2	MH-13	146.4900	146.3200	122.7700	0.0000	0.0000	100.0000
3	B-F65	128.9100	128.9100	123.0000	0.0000	0.0000	100.0000
4	B-F63	128.9100	128.9100	123.3000	0.0000	0.0000	100.0000
5	MH-33	128.0000	122.6200	120.6200	0.0000	0.0000	100.0000
6	B-65	127.3100	127.3100	120.5100	0.0000	0.0000	100.0000
7	E100-OUT	146.4900	145.6200	122.0700	0.0000	0.0000	100.0000
8	E131-OUT	127.5000	127.5000	117.8500	0.0000	0.0000	100.0000
9	Node458	128.9100	128.3600	123.2600	0.0000	0.0000	100.0000
10	C-15	122.4300	119.2700	114.2700	0.0000	0.0000	100.0000
11	D33	122.7100	119.0700	114.0700	0.0000	0.0000	100.0000
12	D35	123.5700	118.9000	112.9000	0.0000	0.0000	100.0000
13	D32	122.4300	119.1300	116.6300	0.0000	0.0000	100.0000
14	D34	123.0400	119.7900	117.7900	0.0000	0.0000	100.0000
15	D38	123.5000	122.0000	120.5000	0.0000	0.0000	100.0000
16	D36	123.5700	121.0000	118.7700	0.0000	0.0000	100.0000
17	D37	124.2100	118.8500	112.8500	0.0000	0.0000	100.0000
18	A-1	136.8100	136.8100	132.8100	0.0000	0.0000	100.0000
19	A-10	136.4200	136.0000	131.3900	0.0000	0.0000	100.0000
20	A-11	137.0700	134.1200	132.6200	0.0000	0.0000	100.0000
21	A-12	136.8000	133.7400	132.2400	0.0000	0.0000	100.0000
22	A-13	135.4200	135.4200	130.0500	0.0000	0.0000	100.0000
23	A-14	136.4600	133.3600	131.8600	0.0000	0.0000	100.0000
24	A-15	136.1600	133.0200	131.5200	0.0000	0.0000	100.0000
25	A-16	135.8200	132.6300	131.1300	0.0000	0.0000	100.0000
26	A-17	134.3700	131.6700	127.6700	0.0000	0.0000	100.0000
27	A-18	134.2000	131.0200	127.0200	0.0000	0.0000	100.0000
28	A-19	133.3000	130.4200	126.4200	0.0000	0.0000	100.0000
29	A-2	136.5100	136.5100	132.6600	0.0000	0.0000	100.0000
30	A-20	132.9500	129.7200	125.7200	0.0000	0.0000	100.0000
31	A-21	134.5000	132.0000	129.5000	0.0000	0.0000	100.0000
32	A-22	132.5000	131.3900	128.8900	0.0000	0.0000	100.0000
33	A-23	133.0000	131.1800	128.1800	0.0000	0.0000	100.0000
34	A-24	134.3000	130.4700	127.4700	0.0000	0.0000	100.0000
35	A-25	134.3100	130.1600	127.1600	0.0000	0.0000	100.0000
36	A-26	133.6400	128.2900	125.2900	0.0000	0.0000	100.0000
37	A-27	132.0700	128.4900	124.4900	0.0000	0.0000	100.0000
38	A-28	131.4700	127.7900	122.7900	0.0000	0.0000	100.0000
39	A-29	131.1700	127.1400	123.1400	0.0000	0.0000	100.0000
40	A-3	136.4500	136.4500	132.4500	0.0000	0.0000	100.0000
41	A-30	130.0000	126.8500	122.8500	0.0000	0.0000	100.0000
42	A-31	130.8700	127.7400	123.7400	0.0000	0.0000	100.0000
43	A-32	131.7500	127.6000	124.1000	0.0000	0.0000	100.0000
44	A-33	133.5500	127.8900	124.3900	0.0000	0.0000	100.0000
45	A-34	130.7700	127.7300	124.2300	0.0000	0.0000	100.0000
46	A-35	129.5400	129.5400	125.0000	0.0000	0.0000	100.0000
47	A-36	132.0000	127.7700	125.2700	0.0000	0.0000	100.0000
48	A-37	131.9000	128.0600	126.0600	0.0000	0.0000	100.0000
49	A-38	133.0000	128.3500	126.8500	0.0000	0.0000	100.0000
50	A-39	140.0000	139.1800	135.5000	0.0000	0.0000	100.0000
51	A-4	136.4500	136.4500	132.2100	0.0000	0.0000	100.0000
52	A-40	140.0000	138.9900	134.9400	0.0000	0.0000	100.0000
53	A-41	138.5000	138.5000	133.8500	0.0000	0.0000	100.0000
54	A-42	139.6200	135.2800	133.2800	0.0000	0.0000	100.0000
55	A-43	137.5000	134.4000	131.9000	0.0000	0.0000	100.0000
56	A-44	137.0000	133.8500	130.8500	0.0000	0.0000	100.0000
57	A-45	137.8700	137.8700	129.9600	0.0000	0.0000	100.0000
58	A-46	136.2700	136.2700	128.8700	0.0000	0.0000	100.0000
59	A-47	135.9200	135.9200	127.8800	0.0000	0.0000	100.0000
60	A-48	135.2200	131.2800	127.2800	0.0000	0.0000	100.0000
61	A-49	137.9700	137.0000	132.0200	0.0000	0.0000	100.0000
62	A-5	136.0700	136.0700	130.8500	0.0000	0.0000	100.0000
63	A-50	137.6000	136.5000	129.8600	0.0000	0.0000	100.0000
64	A-51	137.0500	137.0000	132.0200	0.0000	0.0000	100.0000
65	A-52	134.5200	130.6800	126.6800	0.0000	0.0000	100.0000
66	A-53	134.5200	129.7900	125.7900	0.0000	0.0000	100.0000
67	A-54	134.1700	128.9200	123.9200	0.0000	0.0000	100.0000
68	A-55	133.1200	126.2000	123.7000	0.0000	0.0000	100.0000
69	A-56	132.0000	130.7300	128.2300	0.0000	0.0000	100.0000
70	A-57	132.0000	129.8600	127.8600	0.0000	0.0000	100.0000
71	A-58	132.0000	128.5000	126.0000	0.0000	0.0000	100.0000
72	A-59	134.6500	128.4800	123.4800	0.0000	0.0000	100.0000
73	A-6	138.2900	138.2900	134.6500	0.0000	0.0000	100.0000
74	A-60	131.0000	127.0500	123.0500	0.0000	0.0000	100.0000
75	A-61	132.5900	127.6900	125.6900	0.0000	0.0000	100.0000
76	A-62	131.0200	129.0000	127.5000	0.0000	0.0000	100.0000
77	A-63	132.0700	128.1200	126.6200	0.0000	0.0000	100.0000
78	A-7	139.0000	137.9800	134.0900	0.0000	0.0000	100.0000
79	A-8	137.5000	137.0000	133.0000	0.0000	0.0000	100.0000
80	A-9	139.0000	137.5000	132.1100	0.0000	0.0000	100.0000
81	B-1	130.6700	130.6700	126.9800	0.0000	0.0000	100.0000
82	B-10	127.5000	126.5000	124.5000	0.0000	0.0000	100.0000
83	B-11	129.9100	126.0000	123.0000	0.0000	0.0000	100.0000
84	B-12	127.8900	127.8900	122.8500	0.0000	0.0000	100.0000
85	B-13	134.1300	124.3100	122.3100	0.0000	0.0000	100.0000
86	B-14	131.6200	123.0100	120.5100	0.0000	0.0000	100.0000
87	B-15	129.7700	121.7200	119.7200	0.0000	0.0000	100.0000
88	B-16	128.2700	124.2700	122.2700	0.0000	0.0000	100.0000
89	B-17	127.7200	123.9800	121.9800	0.0000	0.0000	100.0000
90	B-18	127.1900	123.7100	121.2100	0.0000	0.0000	100.0000
91	B-19	126.6400	123.4400	120.4400	0.0000	0.0000	100.0000
92	B-2	129.7500	129.7500	126.2500	0.0000	0.0000	100.0000
93	B-20	126.3600	123.3200	120.3200	0.0000	0.0000	100.0000
94	B-21	126.8100	123.1100	120.1100	0.0000	0.0000	100.0000
95	B-22	126.8300	122.5600	119.0600	0.0000	0.0000	100.0000
96	B-23	126.3600	122.3600	118.8600	0.0000	0.0000	100.0000
97	B-24	126.1100	122.1600	118.1600	0.0000	0.0000	100.0000
98	B-25	126.4400	122.0800	118.0600	0.0000	0.0000	100.0000
99	B-26	126.0000	122.3500	120.8500	0.0000	0.0000	100.0000
100	B-27	126.6800	121.8300	117.8300	0.0000	0.0000	100.0000
101	B-28	128.8000	121.6200	117.6200	0.0000	0.0000	100.0000
102	B-29	129.7900	121.5300	117.5300	0.0000	0.0000	100.0000
103	B-3	127.3000	127.3000	123.8000	0.0000	0.0000	100.0000
104	B-30	129.7900	121.9300	117.9300	0.0000	0.0000	100.0000
105	B-31	129.0000	121.9000	116.9000	0.0000	0.0000	100.0000

106	B-32	127.2800	122.3800	118.3800	0.0000	0.0000	100.0000
107	B-33	129.0000	123.2400	120.7400	0.0000	0.0000	100.0000
108	B-34	129.9000	121.4500	116.9500	0.0000	0.0000	100.0000
109	B-35	131.0200	122.5500	119.5500	0.0000	0.0000	100.0000
110	B-36	126.1100	123.0200	119.5200	0.0000	0.0000	100.0000
111	B-37	129.5800	124.9100	119.9100	0.0000	0.0000	100.0000
112	B-38	130.1500	129.2300	119.2100	0.0000	0.0000	100.0000
113	B-39	128.0000	128.0000	118.8600	0.0000	0.0000	100.0000
114	B-4	129.3900	129.3900	124.7500	0.0000	0.0000	100.0000
115	B-40	129.5000	128.5300	118.7100	0.0000	0.0000	100.0000
116	B-41	128.1800	128.1800	118.0100	0.0000	0.0000	100.0000
117	B-42	127.4800	127.4800	117.8100	0.0000	0.0000	100.0000
118	B-43	126.5000	124.5000	122.5000	0.0000	0.0000	100.0000
119	B-44	127.0300	122.2600	117.2600	0.0000	0.0000	100.0000
120	B-45	126.1300	122.9000	117.1100	0.0000	0.0000	100.0000
121	B-46	125.0000	123.0000	121.0000	0.0000	0.0000	100.0000
122	B-47	126.8300	122.1200	117.1200	0.0000	0.0000	100.0000
123	B-48	147.4500	123.9500	122.4500	0.0000	0.0000	100.0000
124	B-49	143.5300	124.7100	123.2100	0.0000	0.0000	100.0000
125	B-5	130.5000	129.5600	124.6200	0.0000	0.0000	100.0000
126	B-50	136.5200	123.7000	122.2000	0.0000	0.0000	100.0000
127	B-51	130.5500	124.6500	123.1500	0.0000	0.0000	100.0000
128	B-52	128.8700	125.8500	124.3800	0.0000	0.0000	100.0000
129	B-53	128.0700	125.0900	123.5900	0.0000	0.0000	100.0000
130	B-54	126.7300	126.7300	117.7100	0.0000	0.0000	100.0000
131	B-55	125.7800	123.5000	117.9600	0.0000	0.0000	100.0000
132	B-56	127.0000	127.0000	118.1900	0.0000	0.0000	100.0000
133	B-57	125.8200	123.7500	118.5500	0.0000	0.0000	100.0000
134	B-58	127.0000	127.0000	118.7000	0.0000	0.0000	100.0000
135	B-59	127.0000	125.5400	118.8000	0.0000	0.0000	100.0000
136	B-6	131.2900	125.0900	123.5900	0.0000	0.0000	100.0000
137	B-60	125.0900	125.0900	118.9300	0.0000	0.0000	100.0000
138	B-61	125.7100	123.0000	119.0000	0.0000	0.0000	100.0000
139	B-62	125.1400	122.7400	119.2400	0.0000	0.0000	100.0000
140	B-63	126.0000	122.8700	119.3700	0.0000	0.0000	100.0000
141	B-64	125.5000	122.7500	119.7500	0.0000	0.0000	100.0000
142	B-7	130.3200	128.3100	126.8100	0.0000	0.0000	100.0000
143	B-8	131.0200	128.1100	126.6100	0.0000	0.0000	100.0000
144	B-9	128.5000	127.5000	125.5000	0.0000	0.0000	100.0000
145	C-1	125.5800	125.5800	120.3400	0.0000	0.0000	100.0000
146	C-10	124.5000	121.3600	117.8600	0.0000	0.0000	100.0000
147	C-11	124.5000	120.3600	116.3600	0.0000	0.0000	100.0000
148	C-12	124.5000	120.8600	116.8600	0.0000	0.0000	100.0000
149	C-13	125.2700	119.8100	115.8100	0.0000	0.0000	100.0000
150	C-14	125.2700	120.2000	114.3700	0.0000	0.0000	100.0000
151	C-2	125.0900	123.0000	120.5000	0.0000	0.0000	100.0000
152	C-3	125.3000	122.5000	119.0000	0.0000	0.0000	100.0000
153	C-4	124.5000	122.9200	119.9200	0.0000	0.0000	100.0000
154	C-5	124.5000	121.6000	117.6000	0.0000	0.0000	100.0000
155	C-6	124.5000	121.9000	118.9000	0.0000	0.0000	100.0000
156	C-7	126.5000	121.3600	117.3600	0.0000	0.0000	100.0000
157	C-8	126.5000	121.7000	118.2000	0.0000	0.0000	100.0000
158	C-9	124.5000	120.9600	116.9600	0.0000	0.0000	100.0000
159	D-1	127.4000	124.5700	121.1000	0.0000	0.0000	100.0000
160	D-10	128.3700	123.2100	119.2100	0.0000	0.0000	100.0000
161	D-11	128.6500	120.4200	114.9200	0.0000	0.0000	100.0000
162	D-12	128.1800	122.9800	118.9800	0.0000	0.0000	100.0000
163	D-13	128.2500	120.3300	114.3300	0.0000	0.0000	100.0000
164	D-14	127.9400	122.6900	118.6900	0.0000	0.0000	100.0000
165	D-15	127.9400	122.6000	114.2400	0.0000	0.0000	100.0000
166	D-16	127.0700	123.5700	121.5700	0.0000	0.0000	100.0000
167	D-17	127.0700	123.3600	114.1900	0.0000	0.0000	100.0000
168	D-2	127.2000	124.3700	121.3000	0.0000	0.0000	100.0000
169	D-3	125.6000	122.5200	118.5200	0.0000	0.0000	100.0000
170	D-4	127.0000	124.0000	120.0000	0.0000	0.0000	100.0000
171	D-5	126.8500	122.2200	118.2200	0.0000	0.0000	100.0000
172	D-6	126.6400	123.6600	119.6600	0.0000	0.0000	100.0000
173	D-7	126.7700	121.8800	115.8800	0.0000	0.0000	100.0000
174	D-8	126.5100	123.4600	119.4600	0.0000	0.0000	100.0000
175	D-9	128.8800	120.5200	115.5200	0.0000	0.0000	100.0000
176	EX-1	138.3300	137.3600	132.8400	0.0000	0.0000	100.0000
177	EX-10	133.2000	130.9400	127.9400	0.0000	0.0000	100.0000
178	EX-11	134.2600	130.3300	127.3300	0.0000	0.0000	100.0000
179	EX-12	133.7500	130.0600	127.0600	0.0000	0.0000	100.0000
180	EX-13	132.8700	126.0000	123.0000	0.0000	0.0000	100.0000
181	EX-14	132.6700	126.8400	122.8400	0.0000	0.0000	100.0000
182	EX-15	134.4000	126.9500	122.9500	0.0000	0.0000	100.0000
183	EX-16	135.4500	128.1500	126.1500	0.0000	0.0000	100.0000
184	EX-17	137.3100	127.6900	124.6900	0.0000	0.0000	100.0000
185	EX-18	132.5800	127.8500	123.8500	0.0000	0.0000	100.0000
186	EX-19	132.8700	127.1500	122.8600	0.0000	0.0000	100.0000
187	EX-2	137.6700	137.3000	132.7700	0.0000	0.0000	100.0000
188	EX-20	135.0300	128.0500	124.5500	0.0000	0.0000	100.0000
189	EX-3	137.5200	136.9700	132.6000	0.0000	0.0000	100.0000
190	EX-4	137.5200	137.0500	132.4800	0.0000	0.0000	100.0000
191	EX-5	137.2200	136.9200	132.3800	0.0000	0.0000	100.0000
192	EX-6	137.2200	134.1100	131.1100	0.0000	0.0000	100.0000
193	EX-7	137.1400	133.7500	130.7500	0.0000	0.0000	100.0000
194	EX-8	137.1400	133.5900	130.5900	0.0000	0.0000	100.0000
195	EX-9	134.0000	131.5100	128.5100	0.0000	0.0000	100.0000
196	MH-1	137.6200	137.5000	131.1600	0.0000	0.0000	100.0000
197	MH-10	138.0000	136.9900	128.2100	0.0000	0.0000	100.0000
198	MH-11	133.3600	128.0900	123.0900	0.0000	0.0000	100.0000
199	MH-12	133.6800	126.9700	124.9700	0.0000	0.0000	100.0000
200	MH-14	131.0000	129.8000	123.1800	0.0000	0.0000	100.0000
201	MH-15	129.5000	123.4100	118.4100	0.0000	0.0000	100.0000
202	MH-16	126.3700	122.0200	117.0200	0.0000	0.0000	100.0000
203	MH-17	130.5500	127.3200	120.8000	0.0000	0.0000	100.0000
204	MH-18	130.0000	125.9500	119.9800	0.0000	0.0000	100.0000
205	MH-19	129.1000	128.9700	119.6900	0.0000	0.0000	100.0000
206	MH-2	137.2200	136.3000	130.9400	0.0000	0.0000	100.0000
207	MH-20	128.3600	123.9500	119.4400	0.0000	0.0000	100.0000
208	MH-21	133.7600	123.4600	118.9600	0.0000	0.0000	100.0000
209	MH-22	133.3800	122.8400	118.3400	0.0000	0.0000	100.0000
210	MH-23	127.0000	122.2300	117.7300	0.0000	0.0000	100.0000
211	MH-24	129.6500	121.5200	117.0200	0.0000	0.0000	100.0000
212	MH-25	126.8500	122.9400	119.9400	0.0000	0.0000	100.0000
213	MH-26	126.9600	121.7600	117.7600	0.0000	0.0000	100.0000
214	MH-27	130.2100	121.4000	117.4000	0.0000	0.0000	100.0000
215	MH-28	130.4500	121.8800	116.8800	0.0000	0.0000	100.0000
216	MH-29	130.0900	121.8500	116.8500	0.0000	0.0000	100.0000
217	MH-3	137.1400	135.8600	130.2000	0.0000	0.0000	100.0000
218	MH-30	130.8500	122.3000	118.8000	0.0000	0.0000	100.0000
219	MH-31	129.8300	121.3800	117.8800	0.0000	0.0000	100.0000
220	MH-34	127.9000	122.8400	120.3400	0.0000	0.0000	100.0000
221	MH-35	125.8000	123.0800	119.5800	0.0000	0.0000	100.0000
222	MH-36	125.5000	125.5000	119.2800	0.0000	0.0000	100.0000
223	MH-37	127.2000	123.1800	118.6800	0.0000	0.0000	100.0000
224	MH-38	127.0000	123.1000	118.6000	0.0000	0.0000	100.0000
225	MH-39	127.0000	127.0000	118.4300	0.0000	0.0000	100.0000
226	MH-4	136.7900	132.8600	129.8600	0.0000	0.0000	100.0000
227	MH-40	127.5000	124.5000	118.2800	0.0000	0.0000	100.0000
228	MH-41	127.0600	125.0000	117.2100	0.0000	0.0000	100.0000
229	MH-42	127.7500	125.7500	117.4300	0.0000	0.0000	100.0000
230	MH-43	128.6300	120.4100	111.7300	0.0000	0.0000	100.0000
231	MH-44	128.5400	120.3900	111.7300	0.0000	0.0000	100.0000
232	MH-5	136.7900	132.4700	129.4700	0.0000	0.0000	100.0000
233	MH-6	131.7900	131.1100	124.5600	0.0000	0.0000	100.0000

234	MH-7	131.5000	127.4700	123.9700	0.0000	0.0000	100.0000
235	MH-8	131.9900	127.4400	123.4400	0.0000	0.0000	100.0000
236	MH-9	139.6600	133.7900	130.7900	0.0000	0.0000	100.0000
237	E-8	135.7700	129.4000	124.4000	0.0000	0.0000	100.0000
238	Node755	128.0000	126.5000	126.5000	0.0000	0.0000	100.0000
239	E131-Pond	128.0000	126.1800	121.1800	0.0000	0.0000	100.0000
240	E-10	128.0000	125.7700	120.7700	0.0000	0.0000	100.0000
241	E-13	129.5000	125.3500	119.9600	0.0000	0.0000	100.0000
242	E-12	130.0000	125.4800	120.4800	0.0000	0.0000	100.0000
243	E-11	128.0000	125.6500	120.6500	0.0000	0.0000	100.0000
244	E-7	132.0000	129.6600	124.6600	0.0000	0.0000	100.0000
245	E-1	132.0000	128.7100	124.7100	0.0000	0.0000	100.0000
246	E-2	132.0000	128.7100	124.7100	0.0000	0.0000	100.0000
247	E100-Pond	132.0000	129.7400	124.7400	0.0000	0.0000	100.0000
248	MH-45	126.5000	126.5000	120.1300	0.0000	0.0000	100.0000
249	E-9	128.0000	126.0800	121.0800	0.0000	0.0000	100.0000
250	E-3	128.0000	125.8340	121.3340	0.0000	0.0000	100.0000
251	E-4	128.0000	125.8340	121.3340	0.0000	0.0000	100.0000
252	E-6	128.0000	126.2640	121.2640	0.0000	0.0000	100.0000

Table E3b - Junction Data

Inp Num	Junction Name	X Coord.	Y Coord.	Type of Manhole	Type of Inlet	Maximum Capacity	Pavement Shape	Pavement Slope
1	MH-32	3.039828E+06	13.89959E+06	No P	Normal		0	0.0000
2	MH-13	3.034975E+06	13.90137E+06	No P	Normal		0	0.0000
3	B-F65	3.039232E+06	13.89772E+06	No P	Normal		0	0.0000
4	B-F63	3.039261E+06	13.89781E+06	No P	Normal		0	0.0000
5	MH-33	3.039297E+06	13.89779E+06	No P	Normal		0	0.0000
6	B-65	3.039426E+06	13.89769E+06	2D Spill	Normal		0	0.0000
7	E100-OUT	3.035064E+06	13.90149E+06	No P	Normal		0	0.0000
8	E131-OUT	3.039870E+06	13.89961E+06	No P	Normal		0	0.0000
9	Node458	3.039290E+06	13.89780E+06	No P	Normal		0	0.0000
10	C-15	3.043536E+06	13.89970E+06	No P	Normal		0	0.0000
11	D33	3.043835E+06	13.89987E+06	No P	Normal		0	0.0000
12	D35	3.044065E+06	13.90000E+06	No P	Normal		0	0.0000
13	D32	3.043497E+06	13.89977E+06	No P	Normal		0	0.0000
14	D34	3.043799E+06	13.89994E+06	No P	Normal		0	0.0000
15	D38	3.044093E+06	13.90010E+06	No P	Normal		0	0.0000
16	D36	3.044028E+06	13.90007E+06	No P	Normal		0	0.0000
17	D37	3.044160E+06	13.90005E+06	No P	Normal		0	0.0000
18	A-1	3.030056E+06	13.90515E+06	No P	Normal		0	0.0000
19	A-10	3.030690E+06	13.90458E+06	No P	Normal		0	0.0000
20	A-11	3.030992E+06	13.90431E+06	No P	Normal		0	0.0000
21	A-12	3.031231E+06	13.90413E+06	No P	Normal		0	0.0000
22	A-13	3.031618E+06	13.90390E+06	No P	Normal		0	0.0000
23	A-14	3.031468E+06	13.90395E+06	No P	Normal		0	0.0000
24	A-15	3.031706E+06	13.90376E+06	No P	Normal		0	0.0000
25	A-16	3.031945E+06	13.90358E+06	No P	Normal		0	0.0000
26	A-17	3.032337E+06	13.90336E+06	No P	Normal		0	0.0000
27	A-18	3.032855E+06	13.90296E+06	No P	Normal		0	0.0000
28	A-19	3.033332E+06	13.90260E+06	No P	Normal		0	0.0000
29	A-2	3.030295E+06	13.90497E+06	No P	Normal		0	0.0000
30	A-20	3.033890E+06	13.90218E+06	No P	Normal		0	0.0000
31	A-21	3.032886E+06	13.90287E+06	No P	Normal		0	0.0000
32	A-22	3.033299E+06	13.90256E+06	No P	Normal		0	0.0000
33	A-23	3.033676E+06	13.90226E+06	No P	Normal		0	0.0000
34	A-24	3.034248E+06	13.90182E+06	No P	Normal		0	0.0000
35	A-25	3.034505E+06	13.90163E+06	No P	Normal		0	0.0000
36	A-26	3.034728E+06	13.90146E+06	No P	Normal		0	0.0000
37	A-27	3.034646E+06	13.90160E+06	No P	Normal		0	0.0000
38	A-28	3.034968E+06	13.90136E+06	No P	Normal		0	0.0000
39	A-29	3.035044E+06	13.90130E+06	No P	Normal		0	0.0000
40	A-3	3.030615E+06	13.90473E+06	No P	Normal		0	0.0000
41	A-30	3.034926E+06	13.90131E+06	No P	Normal		0	0.0000
42	A-31	3.035547E+06	13.90098E+06	No P	Normal		0	0.0000
43	A-32	3.035473E+06	13.90095E+06	No P	Normal		0	0.0000
44	A-33	3.035653E+06	13.90086E+06	No P	Normal		0	0.0000
45	A-34	3.036013E+06	13.90080E+06	No P	Normal		0	0.0000
46	A-35	3.036604E+06	13.90070E+06	No P	Normal		0	0.0000
47	A-36	3.035981E+06	13.90077E+06	No P	Normal		0	0.0000
48	A-37	3.036260E+06	13.90070E+06	No P	Normal		0	0.0000
49	A-38	3.036545E+06	13.90067E+06	No P	Normal		0	0.0000
50	A-39	3.029908E+06	13.90488E+06	No P	Normal		0	0.0000
51	A-4	3.030844E+06	13.90453E+06	No P	Normal		0	0.0000
52	A-40	3.030059E+06	13.90477E+06	No P	Normal		0	0.0000
53	A-41	3.030224E+06	13.90466E+06	No P	Normal		0	0.0000
54	A-42	3.030377E+06	13.90453E+06	No P	Normal		0	0.0000
55	A-43	3.030623E+06	13.90436E+06	No P	Normal		0	0.0000
56	A-44	3.030843E+06	13.90419E+06	No P	Normal		0	0.0000
57	A-45	3.031256E+06	13.90381E+06	No P	Normal		0	0.0000
58	A-46	3.031575E+06	13.90357E+06	No P	Normal		0	0.0000
59	A-47	3.031973E+06	13.90326E+06	No P	Normal		0	0.0000
60	A-48	3.032451E+06	13.90290E+06	No P	Normal		0	0.0000
61	A-49	3.031418E+06	13.90375E+06	No P	Normal		0	0.0000
62	A-5	3.031103E+06	13.90430E+06	No P	Normal		0	0.0000
63	A-50	3.031736E+06	13.90351E+06	No P	Normal		0	0.0000
64	A-51	3.032055E+06	13.90326E+06	No P	Normal		0	0.0000
65	A-52	3.032928E+06	13.90254E+06	No P	Normal		0	0.0000
66	A-53	3.033406E+06	13.90217E+06	No P	Normal		0	0.0000
67	A-54	3.034123E+06	13.90163E+06	No P	Normal		0	0.0000
68	A-55	3.034836E+06	13.90108E+06	No P	Normal		0	0.0000
69	A-56	3.032950E+06	13.90257E+06	No P	Normal		0	0.0000
70	A-57	3.033427E+06	13.90220E+06	No P	Normal		0	0.0000
71	A-58	3.034144E+06	13.90166E+06	No P	Normal		0	0.0000
72	A-59	3.034470E+06	13.90136E+06	No P	Normal		0	0.0000
73	A-6	3.030047E+06	13.90507E+06	No P	Normal		0	0.0000
74	A-60	3.034806E+06	13.90115E+06	No P	Normal		0	0.0000
75	A-61	3.035476E+06	13.90069E+06	No P	Normal		0	0.0000
76	A-62	3.035897E+06	13.90053E+06	No P	Normal		0	0.0000
77	A-63	3.035612E+06	13.90063E+06	No P	Normal		0	0.0000
78	A-7	3.030201E+06	13.90496E+06	No P	Normal		0	0.0000
79	A-8	3.030358E+06	13.90483E+06	No P	Normal		0	0.0000
80	A-9	3.030523E+06	13.90472E+06	No P	Normal		0	0.0000
81	B-1	3.036385E+06	13.90043E+06	No P	Normal		0	0.0000
82	B-10	3.037637E+06	13.90040E+06	No P	Normal		0	0.0000
83	B-11	3.037502E+06	13.90065E+06	No P	Normal		0	0.0000
84	B-12	3.037751E+06	13.90062E+06	No P	Normal		0	0.0000
85	B-13	3.037895E+06	13.90046E+06	No P	Normal		0	0.0000
86	B-14	3.038736E+06	13.90015E+06	No P	Normal		0	0.0000
87	B-15	3.039613E+06	13.89952E+06	No P	Normal		0	0.0000
88	B-16	3.038119E+06	13.90055E+06	No P	Normal		0	0.0000
89	B-17	3.038251E+06	13.90051E+06	No P	Normal		0	0.0000
90	B-18	3.038377E+06	13.90047E+06	No P	Normal		0	0.0000
91	B-19	3.038503E+06	13.90042E+06	No P	Normal		0	0.0000
92	B-2	3.036634E+06	13.90041E+06	No P	Normal		0	0.0000
93	B-20	3.038568E+06	13.90039E+06	No P	Normal		0	0.0000
94	B-21	3.038702E+06	13.90033E+06	No P	Normal		0	0.0000
95	B-22	3.039020E+06	13.90014E+06	No P	Normal		0	0.0000
96	B-23	3.039129E+06	13.90007E+06	No P	Normal		0	0.0000
97	B-24	3.039228E+06	13.89999E+06	No P	Normal		0	0.0000
98	B-25	3.039302E+06	13.89993E+06	No P	Normal		0	0.0000
99	B-26	3.039276E+06	13.89990E+06	No P	Normal		0	0.0000
100	B-27	3.039490E+06	13.89979E+06	No P	Normal		0	0.0000

101	B-28	3.039656E+06	13.89966E+06	No	P	Normal	0	0.0000
102	B-29	3.039904E+06	13.89952E+06	No	P	Normal	0	0.0000
103	B-3	3.036657E+06	13.90035E+06	No	P	Normal	0	0.0000
104	B-30	3.040217E+06	13.89927E+06	No	P	Normal	0	0.0000
105	B-31	3.039743E+06	13.89954E+06	No	P	Normal	0	0.0000
106	B-32	3.040531E+06	13.89894E+06	No	P	Normal	0	0.0000
107	B-33	3.040304E+06	13.89906E+06	No	P	Normal	0	0.0000
108	B-34	3.039647E+06	13.89949E+06	No	P	Normal	0	0.0000
109	B-35	3.040018E+06	13.89921E+06	No	P	Normal	0	0.0000
110	B-36	3.040867E+06	13.89840E+06	No	P	Normal	0	0.0000
111	B-37	3.036884E+06	13.90040E+06	No	P	Normal	0	0.0000
112	B-38	3.037583E+06	13.90036E+06	No	P	Normal	0	0.0000
113	B-39	3.037929E+06	13.90031E+06	No	P	Normal	0	0.0000
114	B-4	3.036854E+06	13.90070E+06	No	P	Normal	0	0.0000
115	B-40	3.038075E+06	13.90028E+06	No	P	Normal	0	0.0000
116	B-41	3.038718E+06	13.90001E+06	No	P	Normal	0	0.0000
117	B-42	3.038886E+06	13.89990E+06	No	P	Normal	0	0.0000
118	B-43	3.038914E+06	13.89994E+06	No	P	Normal	0	0.0000
119	B-44	3.039325E+06	13.89957E+06	No	P	Normal	0	0.0000
120	B-45	3.039444E+06	13.89948E+06	No	P	Normal	0	0.0000
121	B-46	3.039474E+06	13.89951E+06	No	P	Normal	0	0.0000
122	B-47	3.039603E+06	13.89935E+06	No	P	Normal	0	0.0000
123	B-48	3.040628E+06	13.89832E+06	No	P	Normal	0	0.0000
124	B-49	3.040475E+06	13.89857E+06	No	P	Normal	0	0.0000
125	B-5	3.036942E+06	13.90069E+06	No	P	Normal	0	0.0000
126	B-50	3.040300E+06	13.89880E+06	No	P	Normal	0	0.0000
127	B-51	3.040103E+06	13.89901E+06	No	P	Normal	0	0.0000
128	B-52	3.039878E+06	13.89920E+06	No	P	Normal	0	0.0000
129	B-53	3.039692E+06	13.89932E+06	No	P	Normal	0	0.0000
130	B-54	3.040064E+06	13.89897E+06		F	Normal	0	0.0000
131	B-55	3.040234E+06	13.89879E+06	No	P	Normal	0	0.0000
132	B-56	3.040381E+06	13.89860E+06		F	Normal	0	0.0000
133	B-57	3.040574E+06	13.89827E+06	No	P	Normal	0	0.0000
134	B-58	3.040538E+06	13.89812E+06		F	Normal	0	0.0000
135	B-59	3.040449E+06	13.89807E+06	No	P	Normal	0	0.0000
136	B-6	3.037241E+06	13.90062E+06	No	P	Normal	0	0.0000
137	B-60	3.040331E+06	13.89800E+06	No	P	Normal	0	0.0000
138	B-61	3.040237E+06	13.89796E+06	No	P	Normal	0	0.0000
139	B-62	3.040064E+06	13.89787E+06	No	P	Normal	0	0.0000
140	B-63	3.039940E+06	13.89780E+06	No	P	Normal	0	0.0000
141	B-64	3.039654E+06	13.89763E+06	No	P	Normal	0	0.0000
142	B-7	3.036931E+06	13.90042E+06	No	P	Normal	0	0.0000
143	B-8	3.037131E+06	13.90041E+06	No	P	Normal	0	0.0000
144	B-9	3.037331E+06	13.90041E+06	No	P	Normal	0	0.0000
145	C-1	3.041145E+06	13.89847E+06	No	P	Normal	0	0.0000
146	C-10	3.042527E+06	13.89908E+06	No	P	Normal	0	0.0000
147	C-11	3.042890E+06	13.89945E+06	No	P	Normal	0	0.0000
148	C-12	3.042959E+06	13.89933E+06	No	P	Normal	0	0.0000
149	C-13	3.043385E+06	13.89970E+06	No	P	Normal	0	0.0000
150	C-14	3.043427E+06	13.89963E+06	No	P	Normal	0	0.0000
151	C-2	3.041223E+06	13.89834E+06	No	P	Normal	0	0.0000
152	C-3	3.041585E+06	13.89871E+06	No	P	Normal	0	0.0000
153	C-4	3.041658E+06	13.89859E+06	No	P	Normal	0	0.0000
154	C-5	3.042020E+06	13.89896E+06	No	P	Normal	0	0.0000
155	C-6	3.042092E+06	13.89883E+06	No	P	Normal	0	0.0000
156	C-7	3.042161E+06	13.89904E+06	No	P	Normal	0	0.0000
157	C-8	3.042234E+06	13.89891E+06	No	P	Normal	0	0.0000
158	C-9	3.042454E+06	13.89921E+06	No	P	Normal	0	0.0000
159	D-1	3.039234E+06	13.89739E+06	No	P	Normal	0	0.0000
160	D-10	3.038127E+06	13.89672E+06	No	P	Normal	0	0.0000
161	D-11	3.038176E+06	13.89664E+06	No	P	Normal	0	0.0000
162	D-12	3.037931E+06	13.89659E+06	No	P	Normal	0	0.0000
163	D-13	3.037985E+06	13.89651E+06	No	P	Normal	0	0.0000
164	D-14	3.037693E+06	13.89642E+06	No	P	Normal	0	0.0000
165	D-15	3.037744E+06	13.89635E+06	No	P	Normal	0	0.0000
166	D-16	3.037556E+06	13.89632E+06	No	P	Normal	0	0.0000
167	D-17	3.037609E+06	13.89624E+06	No	P	Normal	0	0.0000
168	D-2	3.039059E+06	13.89729E+06	No	P	Normal	0	0.0000
169	D-3	3.039146E+06	13.89714E+06	No	P	Normal	0	0.0000
170	D-4	3.038801E+06	13.89714E+06	No	P	Normal	0	0.0000
171	D-5	3.038886E+06	13.89699E+06	No	P	Normal	0	0.0000
172	D-6	3.038512E+06	13.89696E+06	No	P	Normal	0	0.0000
173	D-7	3.038583E+06	13.89684E+06	No	P	Normal	0	0.0000
174	D-8	3.038341E+06	13.89685E+06	No	P	Normal	0	0.0000
175	D-9	3.038392E+06	13.89676E+06	No	P	Normal	0	0.0000
176	EX-1	3.030009E+06	13.90519E+06	No	P	Normal	0	0.0000
177	EX-10	3.033858E+06	13.90212E+06	No	P	Normal	0	0.0000
178	EX-11	3.034357E+06	13.90174E+06	No	P	Normal	0	0.0000
179	EX-12	3.034598E+06	13.90155E+06	No	P	Normal	0	0.0000
180	EX-13	3.034899E+06	13.90132E+06	No	P	Normal	0	0.0000
181	EX-14	3.034933E+06	13.90132E+06	No	P	Normal	0	0.0000
182	EX-15	3.034868E+06	13.90124E+06	No	P	Normal	0	0.0000
183	EX-16	3.035274E+06	13.90095E+06	No	P	Normal	0	0.0000
184	EX-17	3.035713E+06	13.90073E+06	No	P	Normal	0	0.0000
185	EX-18	3.035313E+06	13.90103E+06	No	P	Normal	0	0.0000
186	EX-19	3.034921E+06	13.90131E+06	No	P	Normal	0	0.0000
187	EX-2	3.030124E+06	13.90510E+06	No	P	Normal	0	0.0000
188	EX-20	3.035748E+06	13.90082E+06	No	P	Normal	0	0.0000
189	EX-3	3.030366E+06	13.90492E+06	No	P	Normal	0	0.0000
190	EX-4	3.030581E+06	13.90475E+06	No	P	Normal	0	0.0000
191	EX-5	3.030682E+06	13.90467E+06	No	P	Normal	0	0.0000
192	EX-6	3.030906E+06	13.90447E+06	No	P	Normal	0	0.0000
193	EX-7	3.031163E+06	13.90424E+06	No	P	Normal	0	0.0000
194	EX-8	3.031264E+06	13.90417E+06	No	P	Normal	0	0.0000
195	EX-9	3.033397E+06	13.90247E+06	No	P	Normal	0	0.0000
196	MH-1	3.030869E+06	13.90443E+06	No	P	Normal	0	0.0000
197	MH-10	3.031703E+06	13.90346E+06	No	P	Normal	0	0.0000
198	MH-11	3.034779E+06	13.90112E+06	No	P	Normal	0	0.0000
199	MH-12	3.035151E+06	13.90085E+06	No	P	Normal	0	0.0000
200	MH-14	3.036660E+06	13.90040E+06	No	P	Normal	0	0.0000
201	MH-15	3.038357E+06	13.90018E+06	No	P	Normal	0	0.0000
202	MH-16	3.039516E+06	13.89942E+06	No	P	Normal	0	0.0000
203	MH-17	3.037394E+06	13.90041E+06	No	P	Normal	0	0.0000
204	MH-18	3.037512E+06	13.90060E+06	No	P	Normal	0	0.0000
205	MH-19	3.037709E+06	13.90058E+06	No	P	Normal	0	0.0000
206	MH-2	3.031034E+06	13.90436E+06	No	P	Normal	0	0.0000
207	MH-20	3.037915E+06	13.90057E+06			Normal	0	0.0000
208	MH-21	3.038265E+06	13.90041E+06	No	P	Normal	0	0.0000
209	MH-22	3.038773E+06	13.90023E+06	No	P	Normal	0	0.0000
210	MH-23	3.039197E+06	13.89994E+06	No	P	Normal	0	0.0000
211	MH-24	3.039682E+06	13.89958E+06	No	P	Normal	0	0.0000
212	MH-25	3.038797E+06	13.90028E+06	No	P	Normal	0	0.0000
213	MH-26	3.039546E+06	13.89975E+06	No	P	Normal	0	0.0000
214	MH-27	3.039718E+06	13.89962E+06	No	P	Normal	0	0.0000
215	MH-28	3.039782E+06	13.89957E+06	No	P	Normal	0	0.0000
216	MH-29	3.039819E+06	13.89959E+06	No	P	Normal	0	0.0000
217	MH-3	3.031502E+06	13.90399E+06	No	P	Normal	0	0.0000
218	MH-30	3.040096E+06	13.89930E+06	No	P	Normal	0	0.0000
219	MH-31	3.039787E+06	13.89950E+06	No	P	Normal	0	0.0000
220	MH-34	3.039572E+06	13.89759E+06	No	P	Normal	0	0.0000
221	MH-35	3.039757E+06	13.89769E+06	No	P	Normal	0	0.0000
222	MH-36	3.040023E+06	13.89785E+06		F	Normal	0	0.0000
223	MH-37	3.040564E+06	13.89813E+06			Normal	0	0.0000
224	MH-38	3.040591E+06	13.89822E+06			Normal	0	0.0000
225	MH-39	3.040503E+06	13.89838E+06		F	Normal	0	0.0000
226	MH-4	3.031740E+06	13.90381E+06	No	P	Normal	0	0.0000
227	MH-40	3.040424E+06	13.89851E+06	No	P	Normal	0	0.0000
228	MH-41	3.039672E+06	13.89930E+06	No	P	Normal	0	0.0000

229	MH-42	3.039847E+06	13.89916E+06	No	P	Normal	0	0.0000
230	MH-43	3.038148E+06	13.89662E+06	No	P	Normal	0	0.0000
231	MH-44	3.038109E+06	13.89660E+06	No	P	Normal	0	0.0000
232	MH-5	3.031979E+06	13.90363E+06	No	P	Normal	0	0.0000
233	MH-6	3.036267E+06	13.90074E+06	No	P	Normal	0	0.0000
234	MH-7	3.035764E+06	13.90088E+06	No	P	Normal	0	0.0000
235	MH-8	3.035289E+06	13.90113E+06	No	P	Normal	0	0.0000
236	MH-9	3.030815E+06	13.90415E+06	No	P	Normal	0	0.0000
237	E-8	3.033737E+06	13.90192E+06	No	P	Normal	0	0.0000
238	Node755	3.039943E+06	13.89730E+06	No	P	Normal	0	0.0000
239	E131-Pond	3.036927E+06	13.89873E+06	No	P	Normal	0	0.0000
240	E-10	3.036727E+06	13.89959E+06	No	P	Normal	0	0.0000
241	E-13	3.036830E+06	13.90039E+06	No	P	Normal	0	0.0000
242	E-12	3.036796E+06	13.89988E+06	No	P	Normal	0	0.0000
243	E-11	3.036764E+06	13.89971E+06	No	P	Normal	0	0.0000
244	E-7	3.033578E+06	13.90171E+06	No	P	Normal	0	0.0000
245	E-1	3.033539E+06	13.90174E+06	No	P	Normal	0	0.0000
246	E-2	3.033618E+06	13.90168E+06	No	P	Normal	0	0.0000
247	E100-Pond	3.033547E+06	13.90167E+06	No	P	Normal	0	0.0000
248	MH-45	3.040967E+06	13.89837E+06		F	Normal	0	0.0000
249	E-9	3.036616E+06	13.89930E+06	No	P	Normal	0	0.0000
250	E-3	3.037756E+06	13.89849E+06	No	P	Normal	0	0.0000
251	E-4	3.037863E+06	13.89841E+06	No	P	Normal	0	0.0000
252	E-6	3.037810E+06	13.89845E+06	No	P	Normal	0	0.0000

Table E4 - Conduit Connectivity

Input Number	Conduit Name	Upstream Node	Downstream Node	Upstream Elevation	Downstream Elevation	
1	BF63-BF61	B-F63	Node458	123.3000	123.2600	No Design
2	L-B-65	MH-33	B-65	120.6200	120.5100	No Design
3	E100	MH-13	E100-OUT	122.7700	122.0700	No Design
4	E131	E131-OUT	MH-32	117.8500	116.8400	No Design
5	D31-D33	C-15	D33	114.2700	114.0700	No Design
6	D33-D35	D33	D35	114.0700	113.9000	No Design
7	D35-D37	D35	D37	112.9000	112.8500	No Design
8	D32-D31	D32	C-15	116.6300	116.2800	No Design
9	D34-D33	D34	D33	117.7900	116.5900	No Design
10	D38-D36	D38	D36	120.5000	119.5000	No Design
11	D36-D35	D36	D35	118.7700	116.9200	No Design
12	L-A-10	EX-6	MH-2	131.1100	130.9400	No Design
13	L-A-11	A-5	EX-7	130.8500	130.7500	No Design
14	L-A-12	EX-7	EX-8	130.7500	130.5900	No Design
15	L-A-13	EX-9	A-23	128.5100	128.1800	No Design
16	L-A-14	A-23	EX-10	128.1800	127.9400	No Design
17	L-A-15	EX-10	A-24	127.9400	127.4700	No Design
18	L-A-16	A-24	EX-11	127.4700	127.3300	No Design
19	L-A-17	EX-11	A-25	127.3300	127.1600	No Design
20	L-A-18	A-25	EX-12	127.1600	127.0600	No Design
21	L-A-19	EX-12	A-26	127.0600	125.2900	No Design
22	L-A-20	A-26	EX-13	125.2900	123.0000	No Design
23	L-A-21	EX-13	EX-14	123.0000	122.8600	No Design
24	L-A-22	EX-18	EX-19	123.8500	123.1500	No Design
25	L-A-23	A-32	EX-18	124.1000	123.8500	No Design
26	L-A-24	EX-20	A-33	124.5500	124.3900	No Design
27	L-A-25	EX-17	EX-20	124.6900	124.5500	No Design
28	L-A-26	EX-16	EX-18	126.1500	125.8500	No Design
29	L-A-27	A-33	A-32	124.3900	124.1000	No Design
30	L-A-3	EX-2	A-2	132.7700	132.6600	No Design
31	L-A-33	MH-1	EX-6	131.1600	131.1100	No Design
32	L-A-35	A-11	MH-2	132.6200	132.4400	No Design
33	L-A-36	A-12	EX-8	132.2400	132.0900	No Design
34	L-A-37	EX-8	MH-3	130.5900	130.2000	No Design
35	L-A-39	A-14	MH-3	131.8600	131.7000	No Design
36	L-A-40	A-13	MH-4	130.0500	129.8600	No Design
37	L-A-41	MH-4	MH-5	129.8600	129.4700	No Design
38	L-A-42	A-15	MH-4	131.5200	131.3600	No Design
39	L-A-43	A-16	MH-5	131.1300	130.9700	No Design
40	L-A-44	MH-5	A-17	129.4700	128.6700	No Design
41	L-A-45	A-17	A-18	127.6700	127.0200	No Design
42	L-A-46	A-18	A-19	127.0200	126.4200	No Design
43	L-A-47	A-19	A-20	126.4200	125.7200	No Design
44	L-A-48	A-20	A-27	125.7200	124.4900	No Design
45	L-A-49	A-27	A-28	124.4900	123.7900	No Design
46	L-A-50	A-21	A-22	129.5000	128.8900	No Design
47	L-A-51	A-22	EX-9	128.8900	128.5100	No Design
48	L-A-53	MH-6	A-34	124.5600	124.2300	No Design
49	L-A-54	A-34	MH-7	124.2300	123.9700	No Design
50	L-A-55	MH-7	A-31	123.9700	123.7400	No Design
51	L-A-56	A-31	MH-8	123.7400	123.4400	No Design
52	L-A-57	MH-8	A-29	123.4400	123.1400	No Design
53	L-A-58	A-29	A-28	123.1400	123.0400	No Design
54	L-A-59	A-38	A-37	126.8500	126.5600	No Design
55	L-A-60	A-37	A-36	126.0600	125.7700	No Design
56	L-A-61	A-36	A-34	125.2700	125.2300	No Design
57	L-A-64	A-41	A-42	133.8500	133.2800	No Design
58	L-A-65	A-42	A-43	133.2800	132.3900	No Design
59	L-A-66	A-43	A-44	131.9000	131.3500	No Design
60	L-A-67	A-44	MH-9	130.8500	130.7900	No Design
61	L-A-68	MH-9	A-45	130.7900	129.9600	No Design
62	L-A-73	A-50	MH-10	129.8600	129.7100	No Design
63	L-A-75	A-47	A-48	127.8800	127.2800	No Design
64	L-A-76	A-48	A-52	127.2800	126.6800	No Design
65	L-A-77	A-56	A-52	128.2300	128.1800	No Design
66	L-A-78	A-52	A-53	126.6800	125.7900	No Design
67	L-A-79	A-57	A-53	127.8600	127.7900	No Design
68	L-A-80	A-53	E-8	125.7900	125.1700	No Design
69	L-A-81	A-58	A-54	126.0000	125.9500	No Design
70	L-A-82	A-54	A-59	123.9200	123.4800	No Design
71	L-A-83	A-59	MH-11	123.4800	123.0900	No Design
72	L-A-84	A-62	A-63	127.5000	126.6200	No Design
73	L-A-85	A-63	A-61	126.6200	126.1800	No Design
74	L-A-86	A-61	MH-12	125.6900	124.9700	No Design
75	L-A-87	MH-12	A-55	124.9700	124.2000	No Design
76	L-A-88	A-55	MH-11	123.7000	123.6000	No Design
77	L-A-89	MH-11	A-60	123.0900	123.0500	No Design
78	L-A-9	A-4	EX-6	132.2100	132.1100	No Design
79	L-A-90	A-60	EX-15	123.0500	122.9500	No Design
80	L-A-91	EX-15	EX-19	122.9500	122.8600	No Design
81	L-A-92	EX-19	A-30	122.8600	122.8500	No Design
82	L-A-93	A-30	EX-14	122.8500	122.8400	No Design
83	L-A-94	EX-14	A-28	122.8400	122.7900	No Design
84	L-A-95	A-28	MH-13	122.7900	122.7700	No Design
85	L-B-1	B-1	B-2	126.9800	126.2500	No Design
86	L-B-11	B-43	B-42	122.5000	122.3600	No Design
87	L-B-12	B-42	B-44	117.8100	117.2600	No Design
88	L-B-13	B-44	B-45	117.2600	117.1100	No Design
89	L-B-14	B-46	B-45	121.0000	120.9000	No Design
90	L-B-15	B-45	MH-16	117.1100	117.0200	No Design
91	L-B-16	B-7	B-8	126.8100	126.6100	No Design
92	L-B-17	B-8	B-9	126.6100	126.0000	No Design
93	L-B-18	B-9	MH-17	125.5000	125.3200	No Design
94	L-B-19	B-10	MH-17	124.5000	123.8000	No Design
95	L-B-20	MH-17	MH-18	120.8000	120.4800	No Design

96	L-B-21	B-6	MH-18	123.5900	122.9800	No Design
97	L-B-23	B-5	B-11	124.6200	123.5000	No Design
98	L-B-24	B-11	MH-18	123.0000	122.9500	No Design
99	L-B-25	MH-18	MH-19	119.9800	119.6900	No Design
100	L-B-27	MH-19	MH-20	119.6900	119.4400	No Design
101	L-B-28	B-13	MH-20	122.3100	121.9500	No Design
102	L-B-29	MH-20	MH-21	119.4400	118.9600	No Design
103	L-B-30	MH-21	MH-22	118.9600	118.3400	No Design
104	L-B-31	B-14	MH-22	120.5100	120.3400	No Design
105	L-B-32	MH-22	MH-23	118.3400	117.7300	No Design
106	L-B-33	MH-23	MH-24	117.7300	117.0200	No Design
107	L-B-34	B-15	MH-24	119.7200	119.5200	No Design
108	L-B-35	MH-24	B-31	117.0200	116.9500	No Design
109	L-B-36	B-16	B-17	122.2700	121.9800	No Design
110	L-B-37	B-17	B-18	121.9800	121.7100	No Design
111	L-B-38	B-18	B-19	121.2100	120.9400	No Design
112	L-B-39	B-19	B-20	120.4400	120.3200	No Design
113	L-B-4	MH-14	E-13	123.1800	122.8500	No Design
114	L-B-40	B-20	B-21	120.3200	120.1100	No Design
115	L-B-41	B-21	MH-25	120.1100	119.9400	No Design
116	L-B-42	MH-25	B-22	119.9400	119.5600	No Design
117	L-B-43	B-22	B-23	119.0600	118.8600	No Design
118	L-B-44	B-23	B-24	118.8600	118.6600	No Design
119	L-B-45	B-24	B-25	118.1600	118.0600	No Design
120	L-B-46	B-26	B-25	120.8500	120.5800	No Design
121	L-B-47	B-25	B-27	118.0600	117.8300	No Design
122	L-B-48	B-27	MH-26	117.8300	117.7600	No Design
123	L-B-49	MH-26	B-28	117.7600	117.6200	No Design
124	L-B-5	B-37	B-38	119.9100	119.2100	No Design
125	L-B-50	B-28	MH-27	117.6200	117.4000	No Design
126	L-B-51	MH-27	MH-28	117.4000	117.2700	No Design
127	L-B-52	B-36	B-32	119.5200	118.8800	No Design
128	L-B-53	B-32	B-30	118.3800	117.9300	No Design
129	L-B-54	B-30	B-29	117.9300	117.5300	No Design
130	L-B-55	B-29	MH-29	117.5300	117.4200	No Design
131	L-B-56	B-33	MH-30	120.7400	119.8000	No Design
132	L-B-57	B-35	MH-30	119.5500	119.3000	No Design
133	L-B-58	MH-30	MH-31	118.8000	117.8800	No Design
134	L-B-59	MH-31	B-31	117.8800	117.8200	No Design
135	L-B-60	MH-29	MH-32	116.8500	116.8400	No Design
136	L-B-61	MH-28	MH-29	116.8800	116.8500	No Design
137	L-B-62	B-31	MH-28	116.9000	116.8800	No Design
138	L-B-63	B-34	B-31	116.9500	116.9000	No Design
139	L-B-64	MH-16	B-34	117.0200	116.9500	No Design
140	L-B-66	B-65	MH-34	120.5100	120.3400	No Design
141	L-B-67	MH-34	B-64	120.3400	120.2500	No Design
142	L-B-68	B-64	MH-35	119.7500	119.5800	No Design
143	L-B-69	MH-35	B-63	119.5800	119.3700	No Design
144	L-B-70	B-63	MH-36	119.3700	119.2800	No Design
145	L-B-71	MH-36	B-62	119.2800	119.2400	No Design
146	L-B-72	B-62	B-61	119.2400	119.0000	No Design
147	L-B-73	B-61	B-60	119.0000	118.9300	No Design
148	L-B-76	B-58	MH-37	118.7000	118.6800	No Design
149	L-B-77	MH-37	MH-38	118.6800	118.6000	No Design
150	L-B-78	MH-38	B-57	118.6000	118.5500	No Design
151	L-B-79	B-57	MH-39	118.5500	118.4300	No Design
152	L-B-8	B-40	MH-15	118.7100	118.4100	No Design
153	L-B-80	MH-39	MH-40	118.4300	118.2800	No Design
154	L-B-81	B-49	MH-40	123.2100	123.0000	No Design
155	L-B-82	MH-40	B-56	118.2800	118.1900	No Design
156	L-B-83	B-56	B-55	118.1900	117.9600	No Design
157	L-B-84	B-55	B-54	117.9600	117.7100	No Design
158	L-B-85	B-54	MH-42	117.7100	117.4300	No Design
159	L-B-86	MH-41	B-47	117.2100	117.1200	No Design
160	L-B-87	B-47	MH-16	117.1200	117.0200	No Design
161	L-B-88	B-53	MH-41	123.5900	123.5000	No Design
162	L-B-89	MH-42	MH-41	117.4300	117.2100	No Design
163	L-B-9	MH-15	B-41	118.4100	118.0100	No Design
164	L-B-90	B-52	MH-42	124.3800	124.2500	No Design
165	L-B-91	B-51	B-54	123.1500	123.0000	No Design
166	L-B-92	B-50	B-55	122.2000	122.0000	No Design
167	L-B-93	B-48	B-57	122.4500	122.2500	No Design
168	L-C-2	C-4	C-3	119.9200	119.5000	No Design
169	L-C-10	C-5	C-7	117.6000	117.3600	No Design
170	L-C-11	C-7	C-9	117.3600	116.9600	No Design
171	L-C-12	C-9	C-11	116.9600	116.3600	No Design
172	L-C-13	C-11	C-13	116.3600	115.8100	No Design
173	L-C-14	C-13	C-14	115.8100	115.7000	No Design
174	L-C-3	C-6	C-8	118.9000	118.7000	No Design
175	L-C-4	C-8	C-10	118.2000	117.8600	No Design
176	L-C-5	C-10	C-12	117.8600	117.3600	No Design
177	L-C-6	C-12	C-14	116.8600	116.2000	No Design
178	L-C-7	C-14	C-15	114.3700	114.2700	No Design
179	L-C-9	C-3	C-5	119.0000	118.1000	No Design
180	L-D-1	D-1	D-2	122.0700	121.8700	No Design
181	L-D-10	D-5	D-7	118.2200	117.8800	No Design
182	L-D-11	D-7	D-9	115.8800	115.5200	No Design
183	L-D-12	D-9	D-11	115.5200	115.4200	No Design
184	L-D-13	D-11	MH-43	114.9200	114.9100	No Design
185	L-D-14	MH-43	MH-44	111.7300	111.7300	No Design
186	L-D-15	MH-44	D-13	114.8900	114.8300	No Design
187	L-D-16	D-13	D-15	114.3300	114.2400	No Design
188	L-D-17	D-15	D-17	114.2400	114.1900	No Design
189	L-D-18	D-16	D-17	121.5700	121.3600	No Design
190	L-D-2	D-2	D-4	121.8700	121.5000	No Design
191	L-D-3	D-4	D-6	120.0000	119.6600	No Design
192	L-D-4	D-6	D-8	119.6600	119.4600	No Design
193	L-D-5	D-8	D-10	119.4600	119.2100	No Design
194	L-D-6	D-10	D-12	119.2100	118.9800	No Design
195	L-D-7	D-12	D-14	118.9800	118.6900	No Design
196	L-D-8	D-14	D-15	118.6900	118.6000	No Design
197	L-D-9	D-3	D-5	118.5200	118.2200	No Design
198	L-E-8	E-8	A-54	124.4000	123.9200	No Design
199	OL-B-1	B-1	B-3	130.1700	126.8000	No Design
200	L-E100-P	E100-Pond	E-7	124.7400	124.6600	No Design
201	L-E-7	E-7	E-8	124.6600	124.4000	No Design
202	L-E-1	E-1	E-7	124.7100	124.6600	No Design
203	L-E-2	E-2	E-7	124.7100	124.6600	No Design
204	L-C-1	C-2	C-1	120.5000	120.3400	No Design
205	L-B-94	MH-45	B-36	120.1300	120.0200	No Design
206	L-E-13	E-13	B-37	119.9600	119.9100	No Design
207	L-E-12	E-12	E-13	120.4800	119.9600	No Design
208	L-E-11	E-11	E-12	120.6500	120.4800	No Design
209	L-E-10	E-10	E-11	120.7700	120.6500	No Design
210	L-E-9	E-9	E-10	121.0800	120.7700	No Design
211	L-POND	E131-Pond	E-9	121.1800	121.0800	No Design
212	L-E-3	E-3	E-6	121.3340	121.2640	No Design
213	L-E-4	E-4	E-6	121.3340	121.2640	No Design
214	L-E-6	E-6	E131-Pond	121.2640	121.1800	No Design
215	ss bf63	B-F63	B-F65	123.3000	123.0000	No Design
216	rd bf63	B-F63	B-F65	128.4100	128.4100	No Design
217	SS-A-1	EX-1	A-1	132.8410	132.8100	No Design
218	OL-A-1	EX-1	A-1	136.8600	136.3100	No Design
219	SS-A-2	A-1	EX-2	132.8100	132.7700	No Design
220	OL-A-2	EX-2	A-1	136.8000	136.3100	No Design
221	SS-A-28	A-6	A-7	134.6500	134.0900	No Design
222	OL-A-28	A-6	A-7	137.7900	136.9800	No Design
223	SS-A-29	A-7	A-8	134.0900	133.5000	No Design

224	OL-A-29	A-7	A-8	136.9800	136.0000	No Design
225	SS-A-30	A-8	A-9	133.0000	132.6100	No Design
226	OL-A-30	A-9	A-8	137.0000	136.0000	No Design
227	SS-A-31	A-9	A-10	132.1100	131.8900	No Design
228	OL-A-31	A-9	A-10	137.0000	135.5000	No Design
229	SS-A-32	A-10	MH-1	131.3900	131.1600	No Design
230	OL-A-32	MH-1	A-10	137.0000	135.5000	No Design
231	SS-A-34	MH-2	A-5	130.9400	130.8500	No Design
232	OL-A-34	MH-2	A-5	135.8000	135.5700	No Design
233	SS-A-38	MH-3	A-13	130.2000	130.0500	No Design
234	OL-A-38	MH-3	A-13	135.3600	134.9200	No Design
235	SS-A-4	A-2	EX-3	132.6600	132.6000	No Design
236	OL-A-4	EX-3	A-2	136.2700	136.0100	No Design
237	SS-A-5	EX-3	EX-4	132.6000	132.4800	No Design
238	OL-A-5	EX-3	EX-4	136.7200	136.5500	No Design
239	SS-A-52	A-35	MH-6	125.0000	124.5600	No Design
240	OL-A-52	MH-6	A-35	130.6100	129.0400	No Design
241	SS-A-6	EX-4	A-3	132.4800	132.4500	No Design
242	OL-A-6	EX-4	A-3	136.5500	135.9500	No Design
243	SS-A-62	A-39	A-40	135.5000	134.9400	No Design
244	OL-A-62	A-39	A-40	138.6800	138.4900	No Design
245	SS-A-63	A-40	A-41	134.9400	134.3500	No Design
246	OL-A-63	A-40	A-41	138.4900	138.0000	No Design
247	SS-A-69	A-45	A-46	129.9600	129.3700	No Design
248	OL-A-69	A-45	A-46	137.3700	135.7700	No Design
249	SS-A-7	A-3	EX-5	132.4500	132.3800	No Design
250	OL-A-7	EX-5	A-3	136.4200	135.9500	No Design
251	SS-A-70	A-49	A-50	132.0200	130.8600	No Design
252	OL-A-70	A-49	A-50	135.0000	134.5000	No Design
253	SS-A-71	A-51	A-50	132.0200	130.8600	No Design
254	OL-A-71	A-51	A-50	135.0000	134.5000	No Design
255	SS-A-72	A-46	MH-10	128.8700	128.7100	No Design
256	OL-A-72	MH-10	A-46	136.3400	135.7700	No Design
257	SS-A-74	MH-10	A-47	128.2100	127.8800	No Design
258	OL-A-74	MH-10	A-47	136.4900	135.4200	No Design
259	SS-A-8	EX-5	A-4	132.3800	132.2100	No Design
260	OL-A-8	EX-5	A-4	136.4200	135.9500	No Design
261	SS-B-10	B-41	B-42	118.0100	117.8100	No Design
262	OL-B-10	B-41	B-42	127.6800	126.9800	No Design
263	SS-B-2	B-2	MH-14	126.2500	126.1800	No Design
264	OL-B-2	MH-14	B-2	129.3000	129.2500	No Design
265	SS-B-22	B-4	B-5	124.7500	124.6200	No Design
266	OL-B-22	B-5	B-4	129.0600	128.8900	No Design
267	SS-B-26	B-12	MH-19	122.8500	122.6900	No Design
268	OL-B-26	MH-19	B-12	128.4700	127.3900	No Design
269	SS-B-3	B-3	MH-14	123.8000	123.6800	No Design
270	OL-B-3	MH-14	B-3	129.3000	126.8000	No Design
271	SS-B-6	B-38	B-39	119.2100	118.8600	No Design
272	OL-B-6	B-38	B-39	128.7300	127.5000	No Design
273	SS-B-7	B-39	B-40	118.8600	118.7100	No Design
274	OL-B-7	B-40	B-39	128.0300	127.5000	No Design
275	SS-B-74	B-60	B-59	118.9300	118.8000	No Design
276	OL-B-74	B-59	B-60	125.0400	124.5900	No Design
277	SS-B-75	B-59	B-58	118.8000	118.7000	No Design
278	OL-B-75	B-58	B-59	125.5000	125.0400	No Design
279	C-1 SS	C-1	MH-45	120.3400	120.1300	No Design
280	C-1 OL	MH-45	C-1	125.5000	125.0800	No Design

Storage Junction Data

STORAGE JUNCTION NUMBER OR NAME	JUNCTION TYPE	MAXIMUM OR CONSTANT SURFACE AREA (FT2)	PEAK OR CONSTANT VOLUME (CUBIC FEET)	CROWN ELEVATION (FT)	DEPTH STARTS FROM
B-F63	Stage/Area	52272.0000	227496.0390	128.9100	Node Invert
C-15	Stage/Area	11979.0000	91736.3087	122.4300	Spill Crest
D35	Stage/Area	2613.6000	27230.3546	123.5700	Spill Crest
A-1	Stage/Area	11979.0000	41903.6687	136.8100	Spill Crest
A-10	Stage/Area	6534.0000	27933.5731	136.4200	Spill Crest
A-11	Stage/Area	5183.6400	21504.8771	137.0700	Spill Crest
A-12	Stage/Area	5183.6400	22075.0775	136.8000	Spill Crest
A-13	Stage/Area	11979.0000	58314.8987	135.4200	Spill Crest
A-14	Stage/Area	5183.6400	22282.4231	136.4600	Spill Crest
A-15	Stage/Area	5183.6400	22489.7687	136.1600	Spill Crest
A-16	Stage/Area	5183.6400	22748.9507	135.8200	Spill Crest
A-17	Stage/Area	11979.0000	74246.9687	134.3700	Spill Crest
A-18	Stage/Area	11979.0000	79996.8887	134.2000	Spill Crest
A-19	Stage/Area	11979.0000	76403.1887	133.3000	Spill Crest
A-2	Stage/Area	11979.0000	40106.8187	136.5100	Spill Crest
A-20	Stage/Area	11979.0000	80595.8387	132.9500	Spill Crest
A-22	Stage/Area	6534.0000	20299.4420	132.5000	Spill Crest
A-23	Stage/Area	4356.0000	18804.7746	133.0000	Spill Crest
A-29	Stage/Area	11979.0000	90179.0387	131.1700	Spill Crest
A-3	Stage/Area	11979.0000	41903.6687	136.4500	Spill Crest
A-30	Stage/Area	5227.2000	34744.4848	130.0000	Spill Crest
A-31	Stage/Area	11979.0000	79397.9387	130.8700	Spill Crest
A-34	Stage/Area	11979.0000	72330.3287	130.7700	Spill Crest
A-35	Stage/Area	11979.0000	48372.3287	129.5400	Spill Crest
A-4	Stage/Area	11979.0000	44778.6287	136.4500	Spill Crest
A-41	Stage/Area	6969.6000	28900.9019	138.5000	Spill Crest
A-43	Stage/Area	5227.2000	26642.3248	137.5000	Spill Crest
A-44	Stage/Area	5227.2000	29517.2848	137.0000	Spill Crest
A-46	Stage/Area	5183.6400	36796.6151	136.2700	Spill Crest
A-47	Stage/Area	5183.6400	40114.1447	135.9200	Spill Crest
A-48	Stage/Area	5183.6400	39595.7807	135.2200	Spill Crest
A-49	Stage/Area	1001.8800	5710.2466	137.9700	Spill Crest
A-5	Stage/Area	11979.0000	56518.0487	136.0700	Spill Crest
A-50	Stage/Area	12632.4000	85336.2610	137.6000	Spill Crest
A-51	Stage/Area	1001.8800	4788.5170	137.0500	Spill Crest
A-52	Stage/Area	5183.6400	39077.4167	134.5200	Spill Crest
A-53	Stage/Area	5183.6400	43690.8563	134.5200	Spill Crest
A-54	Stage/Area	5183.6400	51569.9891	134.1700	Spill Crest
A-55	Stage/Area	5183.6400	47267.5679	133.1200	Spill Crest
A-56	Stage/Area	5227.2000	17076.5488	132.0000	Spill Crest
A-57	Stage/Area	5227.2000	19010.6128	132.0000	Spill Crest
A-58	Stage/Area	5227.2000	28733.2048	132.0000	Spill Crest
A-60	Stage/Area	3615.4800	26924.9273	131.0000	Spill Crest
A-62	Stage/Area	5183.6400	16684.0919	131.0200	Spill Crest
A-63	Stage/Area	31493.8800	108186.0032	132.0700	Node Invert
A-8	Stage/Area	8712.0000	32625.7175	137.5000	Spill Crest
B-10	Stage/Area	4356.0000	10876.8546	127.5000	Spill Crest
B-12	Stage/Area	5183.6400	24563.2247	127.8900	Spill Crest
B-2	Stage/Area	11979.0000	35914.1687	129.7500	Spill Crest
B-20	Stage/Area	11979.0000	66340.8287	126.3600	Spill Crest
B-24	Stage/Area	11979.0000	89220.7187	126.1100	Spill Crest
B-27	Stage/Area	11979.0000	100001.8187	126.6800	Spill Crest
B-29	Stage/Area	11979.0000	140850.2087	129.7900	Spill Crest
B-3	Stage/Area	5227.2000	15665.2048	127.3000	Spill Crest
B-30	Stage/Area	11979.0000	136058.6087	129.7900	Spill Crest
B-32	Stage/Area	11979.0000	100600.7687	127.2800	Spill Crest
B-36	Stage/Area	11979.0000	72929.2787	126.1100	Spill Crest
B-37	Stage/Area	11979.0000	109824.5987	129.5800	Spill Crest
B-39	Stage/Area	12022.5600	103843.3700	128.0000	Spill Crest
B-4	Stage/Area	11979.0000	49570.2287	129.3900	Spill Crest
B-42	Stage/Area	11979.0000	109824.5987	127.4800	Spill Crest

B-43	Stage/Area	5227.2000	18278.8048	126.5000	Spill Crest
B-45	Stage/Area	11979.0000	102038.2487	126.1300	Spill Crest
B-46	Stage/Area	4356.0000	15232.8546	125.0000	Spill Crest
B-55	Stage/Area	11979.0000	87663.4487	125.7800	Spill Crest
B-57	Stage/Area	11979.0000	81074.9987	125.8200	Spill Crest
B-58	Stage/Area	19602.0000	29568.8107	127.0000	Node Invert
B-59	Stage/Area	12196.8000	90802.0073	127.0000	Spill Crest
B-60	Stage/Area	37026.0000	195085.0890	125.0900	Spill Crest
B-61	Stage/Area	8276.4000	54701.4295	125.7100	Spill Crest
B-62	Stage/Area	9147.6000	48444.8732	125.1400	Spill Crest
B-63	Stage/Area	9147.6000	59727.5935	126.0000	Spill Crest
B-64	Stage/Area	15681.6000	70426.9847	125.5000	Spill Crest
B-9	Stage/Area	4356.0000	10876.8546	128.5000	Spill Crest
C-1	Stage/Area	11979.0000	56757.6287	125.5800	Spill Crest
C-10	Stage/Area	11979.0000	73528.2287	124.5000	Spill Crest
C-11	Stage/Area	11979.0000	91496.7287	124.5000	Spill Crest
C-12	Stage/Area	11979.0000	85507.2287	124.5000	Spill Crest
C-13	Stage/Area	11979.0000	107309.0087	125.2700	Spill Crest
C-14	Stage/Area	11979.0000	124558.7687	125.2700	Spill Crest
C-2	Stage/Area	11979.0000	48971.2787	125.0900	Spill Crest
C-3	Stage/Area	11979.0000	69455.3687	125.3000	Spill Crest
C-4	Stage/Area	11979.0000	48851.4887	124.5000	Spill Crest
C-5	Stage/Area	11979.0000	76642.7687	124.5000	Spill Crest
C-6	Stage/Area	11979.0000	61070.0687	124.5000	Spill Crest
C-9	Stage/Area	11979.0000	84309.3287	124.5000	Spill Crest
MH-34	Stage/Area	6098.4000	45306.0003	127.9000	Spill Crest
MH-35	Stage/Area	6098.4000	36704.5038	125.8000	Spill Crest
MH-36	Stage/Area	9147.6000	53674.5913	125.5000	Spill Crest
MH-39	Stage/Area	8712.0000	11178.3258	127.0000	Node Invert
MH-40	Stage/Area	7840.8000	8820.0888	127.5000	Node Invert
E131-Pond	Stage/Area	512265.6000	2.972175E+06	128.0000	Node Invert
E100-Pond	Stage/Area	368517.6000	2.255350E+06	132.0000	Node Invert

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| Variable storage data for node | B-F63
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	123.3000	0.0000	43.5600	0.0000	0.0010	0.0000
2	123.6125	0.3125	6572.1150	744.8675	0.1509	0.0171
3	123.9250	0.6250	13100.6700	3760.6743	0.3007	0.0863
4	124.2375	0.9375	19629.2250	8840.4638	0.4506	0.2029
5	124.5500	1.2500	26157.7800	15970.3173	0.6005	0.3666
6	124.8625	1.5625	32686.3350	25145.7893	0.7504	0.5773
7	125.1750	1.8750	39214.8900	36364.8867	0.9002	0.8348
8	125.4875	2.1875	45743.4450	49626.5425	1.0501	1.1393
9	125.8000	2.5000	52272.0000	64930.1190	1.2000	1.4906
10	128.9100	5.6100	52272.0000	227496.0390	1.2000	5.2226

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| Variable storage data for node | C-15
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	114.2700	0.0000	4.3560	0.0000	0.0001	0.0000
2	114.2950	0.0250	150.8265	1.5068	0.0035	0.0000
3	114.3200	0.0500	297.2970	7.0058	0.0068	0.0002
4	114.3450	0.0750	443.7675	16.2082	0.0102	0.0004
5	114.3700	0.1000	590.2380	29.0898	0.0135	0.0007
6	114.3950	0.1250	736.7085	45.6428	0.0169	0.0010
7	114.4200	0.1500	883.1790	65.8638	0.0203	0.0015
8	114.4450	0.1750	1029.6495	89.7507	0.0236	0.0021
9	114.4700	0.2000	1176.1200	117.3026	0.0270	0.0027
10	114.4950	0.2250	1475.5950	150.3783	0.0339	0.0035
11	114.5200	0.2500	1775.0700	190.9540	0.0408	0.0044
12	114.5450	0.2750	2074.5450	239.0256	0.0476	0.0055
13	114.5700	0.3000	2374.0200	294.5906	0.0545	0.0068
14	114.5950	0.3250	2673.4950	357.6475	0.0614	0.0082
15	114.6200	0.3500	2972.9700	428.1952	0.0683	0.0098
16	114.6450	0.3750	3272.4450	506.2330	0.0751	0.0116
17	114.6700	0.4000	3571.9200	591.7602	0.0820	0.0136
18	114.6825	0.4125	3773.3850	637.6626	0.0866	0.0146
19	114.6950	0.4250	3974.8500	686.0836	0.0912	0.0158
20	114.7075	0.4375	4176.3150	737.0232	0.0959	0.0169
21	114.7200	0.4500	4377.7800	790.4814	0.1005	0.0181
22	114.7325	0.4625	4579.2450	846.4581	0.1051	0.0194
23	114.7450	0.4750	4780.7100	904.9533	0.1098	0.0208
24	114.7575	0.4875	4982.1750	965.9670	0.1144	0.0222
25	114.7700	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	114.7825	0.5125	5439.5550	1095.8877	0.1249	0.0252
27	114.7950	0.5250	5695.4700	1165.4755	0.1308	0.0268
28	114.8075	0.5375	5951.3850	1238.2625	0.1366	0.0284
29	114.8200	0.5500	6207.3000	1314.2486	0.1425	0.0302
30	114.8325	0.5625	6463.2150	1393.4340	0.1484	0.0320
31	114.8450	0.5750	6719.1300	1475.8184	0.1542	0.0339
32	114.8575	0.5875	6975.0450	1561.4020	0.1601	0.0358
33	114.8700	0.6000	7230.9600	1650.1848	0.1660	0.0379
34	114.8950	0.6250	7824.4650	1838.3288	0.1796	0.0422
35	114.9200	0.6500	8417.9700	2041.3141	0.1932	0.0469
36	114.9450	0.6750	9011.4750	2259.1400	0.2069	0.0519
37	114.9700	0.7000	9604.9800	2491.8063	0.2205	0.0572
38	114.9950	0.7250	10198.4850	2739.3125	0.2341	0.0629
39	115.0200	0.7500	10791.9900	3001.6585	0.2478	0.0689
40	115.0450	0.7750	11385.4950	3278.8440	0.2614	0.0753
41	115.0700	0.8000	11979.0000	3570.8687	0.2750	0.0820
42	122.4300	8.1600	11979.0000	91736.3087	0.2750	2.1060

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| Variable storage data for node | D35
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	112.9000	0.0000	4.3560	0.0000	0.0001	0.0000
2	112.9625	0.0625	330.5115	7.7669	0.0076	0.0002
3	113.0250	0.1250	656.6670	38.0388	0.0151	0.0009
4	113.0875	0.1875	982.8225	88.9315	0.0226	0.0020
5	113.1500	0.2500	1308.9780	160.3072	0.0301	0.0037
6	113.2125	0.3125	1635.1335	252.1220	0.0375	0.0058
7	113.2750	0.3750	1961.2890	364.3558	0.0450	0.0084
8	113.3375	0.4375	2287.4445	496.9981	0.0525	0.0114
9	113.4000	0.5000	2613.6000	650.0426	0.0600	0.0149
10	123.5700	10.6700	2613.6000	27230.3546	0.0600	0.6251

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| Variable storage data for node | A-1
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	132.8100	0.0000	4.3560	0.0000	0.0001	0.0000
2	132.8350	0.0250	150.8265	1.5068	0.0035	0.0000
3	132.8600	0.0500	297.2970	7.0058	0.0068	0.0002
4	132.8850	0.0750	443.7675	16.2082	0.0102	0.0004
5	132.9100	0.1000	590.2380	29.0898	0.0135	0.0007
6	132.9350	0.1250	736.7085	45.6428	0.0169	0.0010

7	132.9600	0.1500	883.1790	65.8638	0.0203	0.0015
8	132.9850	0.1750	1029.6495	89.7507	0.0236	0.0021
9	133.0100	0.2000	1176.1200	117.3026	0.0270	0.0027
10	133.0350	0.2250	1475.5950	150.3783	0.0339	0.0035
11	133.0600	0.2500	1775.0700	190.9540	0.0408	0.0044
12	133.0850	0.2750	2074.5450	239.0256	0.0476	0.0055
13	133.1100	0.3000	2374.0200	294.5906	0.0545	0.0068
14	133.1350	0.3250	2673.4950	357.6475	0.0614	0.0082
15	133.1600	0.3500	2972.9700	428.1952	0.0683	0.0098
16	133.1850	0.3750	3272.4450	506.2330	0.0751	0.0116
17	133.2100	0.4000	3571.9200	591.7602	0.0820	0.0136
18	133.2225	0.4125	3773.3850	637.6626	0.0866	0.0146
19	133.2350	0.4250	3974.8500	686.0836	0.0912	0.0158
20	133.2475	0.4375	4176.3150	737.0232	0.0959	0.0169
21	133.2600	0.4500	4377.7800	790.4814	0.1005	0.0181
22	133.2725	0.4625	4579.2450	846.4581	0.1051	0.0194
23	133.2850	0.4750	4780.7100	904.9533	0.1098	0.0208
24	133.2975	0.4875	4982.1750	965.9670	0.1144	0.0222
25	133.3100	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	133.3225	0.5125	5439.5550	1095.8877	0.1249	0.0252
27	133.3350	0.5250	5695.4700	1165.4755	0.1308	0.0268
28	133.3475	0.5375	5951.3850	1238.2625	0.1366	0.0284
29	133.3600	0.5500	6207.3000	1314.2486	0.1425	0.0302
30	133.3725	0.5625	6463.2150	1393.4340	0.1484	0.0320
31	133.3850	0.5750	6719.1300	1475.8184	0.1542	0.0339
32	133.3975	0.5875	6975.0450	1561.4020	0.1601	0.0358
33	133.4100	0.6000	7230.9600	1650.1848	0.1660	0.0379
34	133.4350	0.6250	7824.4650	1838.3288	0.1796	0.0422
35	133.4600	0.6500	8417.9700	2041.3141	0.1932	0.0469
36	133.4850	0.6750	9011.4750	2259.1400	0.2069	0.0519
37	133.5100	0.7000	9604.9800	2491.8063	0.2205	0.0572
38	133.5350	0.7250	10198.4850	2739.3125	0.2341	0.0629
39	133.5600	0.7500	10791.9900	3001.6585	0.2478	0.0689
40	133.5850	0.7750	11385.4950	3278.8440	0.2614	0.0753
41	133.6100	0.8000	11979.0000	3570.8687	0.2750	0.0820
42	136.8100	4.0000	11979.0000	41903.6687	0.2750	0.9620

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| Variable storage data for node | A-10
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	131.3900	0.0000	4.3560	0.0000	0.0001	0.0000
2	131.5775	0.1875	820.5615	55.2940	0.0188	0.0013
3	131.7650	0.3750	1636.7670	281.3088	0.0376	0.0065
4	131.9525	0.5625	2452.9725	662.1508	0.0563	0.0152
5	132.1400	0.7500	3269.1780	1196.7739	0.0750	0.0275
6	132.3275	0.9375	4085.3835	1884.8443	0.0938	0.0433
7	132.5150	1.1250	4901.5890	2726.2123	0.1125	0.0626
8	132.7025	1.3125	5717.7945	3720.7979	0.1313	0.0854
9	132.8900	1.5000	6534.0000	4868.5531	0.1500	0.1118
10	136.4200	5.0300	6534.0000	27933.5731	0.1500	0.6413

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| Variable storage data for node | A-11
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	132.6200	0.0000	4.3560	0.0000	0.0001	0.0000
2	132.6450	0.0250	150.8265	1.5068	0.0035	0.0000
3	132.6700	0.0500	297.2970	7.0058	0.0068	0.0002
4	132.6950	0.0750	443.7675	16.2082	0.0102	0.0004
5	132.7200	0.1000	590.2380	29.0898	0.0135	0.0007
6	132.7450	0.1250	736.7085	45.6428	0.0169	0.0010
7	132.7700	0.1500	883.1790	65.8638	0.0203	0.0015
8	132.7950	0.1750	1029.6495	89.7507	0.0236	0.0021
9	132.8200	0.2000	1176.1200	117.3026	0.0270	0.0027
10	132.8450	0.2250	1475.5950	150.3783	0.0339	0.0035
11	132.8700	0.2500	1775.0700	190.9540	0.0408	0.0044
12	132.8950	0.2750	2074.5450	239.0256	0.0476	0.0055
13	132.9200	0.3000	2374.0200	294.5906	0.0545	0.0068
14	132.9450	0.3250	2673.4950	357.6475	0.0614	0.0082
15	132.9700	0.3500	2972.9700	428.1952	0.0683	0.0098
16	132.9950	0.3750	3272.4450	506.2330	0.0751	0.0116
17	133.0200	0.4000	3571.9200	591.7602	0.0820	0.0136
18	133.0325	0.4125	3773.3850	637.6626	0.0866	0.0146
19	133.0450	0.4250	3974.8500	686.0836	0.0912	0.0158
20	133.0575	0.4375	4176.3150	737.0232	0.0959	0.0169
21	133.0700	0.4500	4377.7800	790.4814	0.1005	0.0181
22	133.0825	0.4625	4579.2450	846.4581	0.1051	0.0194
23	133.0950	0.4750	4780.7100	904.9533	0.1098	0.0208
24	133.1075	0.4875	4982.1750	965.9670	0.1144	0.0222
25	133.1200	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	137.0700	4.4500	5183.6400	21504.8771	0.1190	0.4937

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| Variable storage data for node | A-12
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	132.2400	0.0000	4.3560	0.0000	0.0001	0.0000
2	132.2650	0.0250	150.8265	1.5068	0.0035	0.0000
3	132.2900	0.0500	297.2970	7.0058	0.0068	0.0002
4	132.3150	0.0750	443.7675	16.2082	0.0102	0.0004
5	132.3400	0.1000	590.2380	29.0898	0.0135	0.0007
6	132.3650	0.1250	736.7085	45.6428	0.0169	0.0010
7	132.3900	0.1500	883.1790	65.8638	0.0203	0.0015
8	132.4150	0.1750	1029.6495	89.7507	0.0236	0.0021
9	132.4400	0.2000	1176.1200	117.3026	0.0270	0.0027
10	132.4650	0.2250	1475.5950	150.3783	0.0339	0.0035
11	132.4900	0.2500	1775.0700	190.9540	0.0408	0.0044
12	132.5150	0.2750	2074.5450	239.0256	0.0476	0.0055
13	132.5400	0.3000	2374.0200	294.5906	0.0545	0.0068
14	132.5650	0.3250	2673.4950	357.6475	0.0614	0.0082
15	132.5900	0.3500	2972.9700	428.1952	0.0683	0.0098
16	132.6150	0.3750	3272.4450	506.2330	0.0751	0.0116
17	132.6400	0.4000	3571.9200	591.7602	0.0820	0.0136
18	132.6525	0.4125	3773.3850	637.6626	0.0866	0.0146
19	132.6650	0.4250	3974.8500	686.0836	0.0912	0.0158
20	132.6775	0.4375	4176.3150	737.0232	0.0959	0.0169
21	132.6900	0.4500	4377.7800	790.4814	0.1005	0.0181
22	132.7025	0.4625	4579.2450	846.4581	0.1051	0.0194
23	132.7150	0.4750	4780.7100	904.9533	0.1098	0.0208
24	132.7275	0.4875	4982.1750	965.9670	0.1144	0.0222
25	132.7400	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	136.8000	4.5600	5183.6400	22075.0775	0.1190	0.5068

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| Variable storage data for node | A-13
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	130.0500	0.0000	4.3560	0.0000	0.0001	0.0000
2	130.0750	0.0250	150.8265	1.5068	0.0035	0.0000

3	130.1000	0.0500	297.2970	7.0058	0.0068	0.0002
4	130.1250	0.0750	443.7675	16.2082	0.0102	0.0004
5	130.1500	0.1000	590.2380	29.0898	0.0135	0.0007
6	130.1750	0.1250	736.7085	45.6428	0.0169	0.0010
7	130.2000	0.1500	883.1790	65.8638	0.0203	0.0015
8	130.2250	0.1750	1029.6495	89.7507	0.0236	0.0021
9	130.2500	0.2000	1176.1200	117.3026	0.0270	0.0027
10	130.2750	0.2250	1475.5950	150.3783	0.0339	0.0035
11	130.3000	0.2500	1775.0700	190.9540	0.0408	0.0044
12	130.3250	0.2750	2074.5450	239.0256	0.0476	0.0055
13	130.3500	0.3000	2374.0200	294.5906	0.0545	0.0068
14	130.3750	0.3250	2673.4950	357.6475	0.0614	0.0082
15	130.4000	0.3500	2972.9700	428.1952	0.0683	0.0098
16	130.4250	0.3750	3272.4450	506.2330	0.0751	0.0116
17	130.4500	0.4000	3571.9200	591.7602	0.0820	0.0136
18	130.4625	0.4125	3773.3850	637.6626	0.0866	0.0146
19	130.4750	0.4250	3974.8500	686.0836	0.0912	0.0158
20	130.4875	0.4375	4176.3150	737.0232	0.0959	0.0169
21	130.5000	0.4500	4377.7800	790.4814	0.1005	0.0181
22	130.5125	0.4625	4579.2450	846.4581	0.1051	0.0194
23	130.5250	0.4750	4780.7100	904.9533	0.1098	0.0208
24	130.5375	0.4875	4982.1750	965.9670	0.1144	0.0222
25	130.5500	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	130.5625	0.5125	5439.5550	1095.8877	0.1249	0.0252
27	130.5750	0.5250	5695.4700	1165.4755	0.1308	0.0268
28	130.5875	0.5375	5951.3850	1238.2625	0.1366	0.0284
29	130.6000	0.5500	6207.3000	1314.2486	0.1425	0.0302
30	130.6125	0.5625	6463.2150	1393.4340	0.1484	0.0320
31	130.6250	0.5750	6719.1300	1475.8184	0.1542	0.0339
32	130.6375	0.5875	6975.0450	1561.4020	0.1601	0.0358
33	130.6500	0.6000	7230.9600	1650.1848	0.1660	0.0379
34	130.6750	0.6250	7824.4650	1838.3288	0.1796	0.0422
35	130.7000	0.6500	8417.9700	2041.3141	0.1932	0.0469
36	130.7250	0.6750	9011.4750	2259.1400	0.2069	0.0519
37	130.7500	0.7000	9604.9800	2491.8063	0.2205	0.0572
38	130.7750	0.7250	10198.4850	2739.3125	0.2341	0.0629
39	130.8000	0.7500	10791.9900	3001.6585	0.2478	0.0689
40	130.8250	0.7750	11385.4950	3278.8440	0.2614	0.0753
41	130.8500	0.8000	11979.0000	3570.8687	0.2750	0.0820
42	135.4200	5.3700	11979.0000	58314.8987	0.2750	1.3387

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| Variable storage data for node | A-14
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	131.8600	0.0000	4.3560	0.0000	0.0001	0.0000
2	131.8850	0.0250	150.8265	1.5068	0.0035	0.0000
3	131.9100	0.0500	297.2970	7.0058	0.0068	0.0002
4	131.9350	0.0750	443.7675	16.2082	0.0102	0.0004
5	131.9600	0.1000	590.2380	29.0898	0.0135	0.0007
6	131.9850	0.1250	736.7085	45.6428	0.0169	0.0010
7	132.0100	0.1500	883.1790	65.8638	0.0203	0.0015
8	132.0350	0.1750	1029.6495	89.7507	0.0236	0.0021
9	132.0600	0.2000	1176.1200	117.3026	0.0270	0.0027
10	132.0850	0.2250	1475.5950	150.3783	0.0339	0.0035
11	132.1100	0.2500	1775.0700	190.9540	0.0408	0.0044
12	132.1350	0.2750	2074.5450	239.0256	0.0476	0.0055
13	132.1600	0.3000	2374.0200	294.5906	0.0545	0.0068
14	132.1850	0.3250	2673.4950	357.6475	0.0614	0.0082
15	132.2100	0.3500	2972.9700	428.1952	0.0683	0.0098
16	132.2350	0.3750	3272.4450	506.2330	0.0751	0.0116
17	132.2600	0.4000	3571.9200	591.7602	0.0820	0.0136
18	132.2725	0.4125	3773.3850	637.6626	0.0866	0.0146
19	132.2850	0.4250	3974.8500	686.0836	0.0912	0.0158
20	132.2975	0.4375	4176.3150	737.0232	0.0959	0.0169
21	132.3100	0.4500	4377.7800	790.4814	0.1005	0.0181
22	132.3225	0.4625	4579.2450	846.4581	0.1051	0.0194
23	132.3350	0.4750	4780.7100	904.9533	0.1098	0.0208
24	132.3475	0.4875	4982.1750	965.9670	0.1144	0.0222
25	132.3600	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	136.4600	4.6000	5183.6400	22282.4231	0.1190	0.5115

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| Variable storage data for node | A-15
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	131.5200	0.0000	4.3560	0.0000	0.0001	0.0000
2	131.5450	0.0250	150.8265	1.5068	0.0035	0.0000
3	131.5700	0.0500	297.2970	7.0058	0.0068	0.0002
4	131.5950	0.0750	443.7675	16.2082	0.0102	0.0004
5	131.6200	0.1000	590.2380	29.0898	0.0135	0.0007
6	131.6450	0.1250	736.7085	45.6428	0.0169	0.0010
7	131.6700	0.1500	883.1790	65.8638	0.0203	0.0015
8	131.6950	0.1750	1029.6495	89.7507	0.0236	0.0021
9	131.7200	0.2000	1176.1200	117.3026	0.0270	0.0027
10	131.7450	0.2250	1475.5950	150.3783	0.0339	0.0035
11	131.7700	0.2500	1775.0700	190.9540	0.0408	0.0044
12	131.7950	0.2750	2074.5450	239.0256	0.0476	0.0055
13	131.8200	0.3000	2374.0200	294.5906	0.0545	0.0068
14	131.8450	0.3250	2673.4950	357.6475	0.0614	0.0082
15	131.8700	0.3500	2972.9700	428.1952	0.0683	0.0098
16	131.8950	0.3750	3272.4450	506.2330	0.0751	0.0116
17	131.9200	0.4000	3571.9200	591.7602	0.0820	0.0136
18	131.9325	0.4125	3773.3850	637.6626	0.0866	0.0146
19	131.9450	0.4250	3974.8500	686.0836	0.0912	0.0158
20	131.9575	0.4375	4176.3150	737.0232	0.0959	0.0169
21	131.9700	0.4500	4377.7800	790.4814	0.1005	0.0181
22	131.9825	0.4625	4579.2450	846.4581	0.1051	0.0194
23	131.9950	0.4750	4780.7100	904.9533	0.1098	0.0208
24	132.0075	0.4875	4982.1750	965.9670	0.1144	0.0222
25	132.0200	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	136.1600	4.6400	5183.6400	22489.7687	0.1190	0.5163

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| Variable storage data for node | A-16
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	131.1300	0.0000	4.3560	0.0000	0.0001	0.0000
2	131.1550	0.0250	150.8265	1.5068	0.0035	0.0000
3	131.1800	0.0500	297.2970	7.0058	0.0068	0.0002
4	131.2050	0.0750	443.7675	16.2082	0.0102	0.0004
5	131.2300	0.1000	590.2380	29.0898	0.0135	0.0007
6	131.2550	0.1250	736.7085	45.6428	0.0169	0.0010
7	131.2800	0.1500	883.1790	65.8638	0.0203	0.0015
8	131.3050	0.1750	1029.6495	89.7507	0.0236	0.0021
9	131.3300	0.2000	1176.1200	117.3026	0.0270	0.0027
10	131.3550	0.2250	1475.5950	150.3783	0.0339	0.0035
11	131.3800	0.2500	1775.0700	190.9540	0.0408	0.0044
12	131.4050	0.2750	2074.5450	239.0256	0.0476	0.0055
13	131.4300	0.3000	2374.0200	294.5906	0.0545	0.0068
14	131.4550	0.3250	2673.4950	357.6475	0.0614	0.0082
15	131.4800	0.3500	2972.9700	428.1952	0.0683	0.0098

16	131.5050	0.3750	3272.4450	506.2330	0.0751	0.0116
17	131.5300	0.4000	3571.9200	591.7602	0.0820	0.0136
18	131.5425	0.4125	3773.3850	637.6626	0.0866	0.0146
19	131.5550	0.4250	3974.8500	686.0836	0.0912	0.0158
20	131.5675	0.4375	4176.3150	737.0232	0.0959	0.0169
21	131.5800	0.4500	4377.7800	790.4814	0.1005	0.0181
22	131.5925	0.4625	4579.2450	846.4581	0.1051	0.0194
23	131.6050	0.4750	4780.7100	904.9533	0.1098	0.0208
24	131.6175	0.4875	4982.1750	965.9670	0.1144	0.0222
25	131.6300	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	135.8200	4.6900	5183.6400	22748.9507	0.1190	0.5222

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| Variable storage data for node | A-17
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	127.6700	0.0000	4.3560	0.0000	0.0001	0.0000
2	127.6950	0.0250	150.8265	1.5068	0.0035	0.0000
3	127.7200	0.0500	297.2970	7.0058	0.0068	0.0002
4	127.7450	0.0750	443.7675	16.2082	0.0102	0.0004
5	127.7700	0.1000	590.2380	29.0898	0.0135	0.0007
6	127.7950	0.1250	736.7085	45.6428	0.0169	0.0010
7	127.8200	0.1500	883.1790	65.8638	0.0203	0.0015
8	127.8450	0.1750	1029.6495	89.7507	0.0236	0.0021
9	127.8700	0.2000	1176.1200	117.3026	0.0270	0.0027
10	127.8950	0.2250	1475.5950	150.3783	0.0339	0.0035
11	127.9200	0.2500	1775.0700	190.9540	0.0408	0.0044
12	127.9450	0.2750	2074.5450	239.0256	0.0476	0.0055
13	127.9700	0.3000	2374.0200	294.5906	0.0545	0.0068
14	127.9950	0.3250	2673.4950	357.6475	0.0614	0.0082
15	128.0200	0.3500	2972.9700	428.1952	0.0683	0.0098
16	128.0450	0.3750	3272.4450	506.2330	0.0751	0.0116
17	128.0700	0.4000	3571.9200	591.7602	0.0820	0.0136
18	128.0825	0.4125	3773.3850	637.6626	0.0866	0.0146
19	128.0950	0.4250	3974.8500	686.0836	0.0912	0.0158
20	128.1075	0.4375	4176.3150	737.0232	0.0959	0.0169
21	128.1200	0.4500	4377.7800	790.4814	0.1005	0.0181
22	128.1325	0.4625	4579.2450	846.4581	0.1051	0.0194
23	128.1450	0.4750	4780.7100	904.9533	0.1098	0.0208
24	128.1575	0.4875	4982.1750	965.9670	0.1144	0.0222
25	128.1700	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	128.1825	0.5125	5439.5550	1095.8877	0.1249	0.0252
27	128.1950	0.5250	5695.4700	1165.4755	0.1308	0.0268
28	128.2075	0.5375	5951.3850	1238.2625	0.1366	0.0284
29	128.2200	0.5500	6207.3000	1314.2486	0.1425	0.0302
30	128.2325	0.5625	6463.2150	1393.4340	0.1484	0.0320
31	128.2450	0.5750	6719.1300	1475.8184	0.1542	0.0339
32	128.2575	0.5875	6975.0450	1561.4020	0.1601	0.0358
33	128.2700	0.6000	7230.9600	1650.1848	0.1660	0.0379
34	128.2950	0.6250	7824.4650	1838.3288	0.1796	0.0422
35	128.3200	0.6500	8417.9700	2041.3141	0.1932	0.0469
36	128.3450	0.6750	9011.4750	2259.1400	0.2069	0.0519
37	128.3700	0.7000	9604.9800	2491.8063	0.2205	0.0572
38	128.3950	0.7250	10198.4850	2739.3125	0.2341	0.0629
39	128.4200	0.7500	10791.9900	3001.6585	0.2478	0.0689
40	128.4450	0.7750	11385.4950	3278.8440	0.2614	0.0753
41	128.4700	0.8000	11979.0000	3570.8687	0.2750	0.0820
42	134.3700	6.7000	11979.0000	74246.9687	0.2750	1.7045

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| Variable storage data for node | A-18
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	127.0200	0.0000	4.3560	0.0000	0.0001	0.0000
2	127.0450	0.0250	150.8265	1.5068	0.0035	0.0000
3	127.0700	0.0500	297.2970	7.0058	0.0068	0.0002
4	127.0950	0.0750	443.7675	16.2082	0.0102	0.0004
5	127.1200	0.1000	590.2380	29.0898	0.0135	0.0007
6	127.1450	0.1250	736.7085	45.6428	0.0169	0.0010
7	127.1700	0.1500	883.1790	65.8638	0.0203	0.0015
8	127.1950	0.1750	1029.6495	89.7507	0.0236	0.0021
9	127.2200	0.2000	1176.1200	117.3026	0.0270	0.0027
10	127.2450	0.2250	1475.5950	150.3783	0.0339	0.0035
11	127.2700	0.2500	1775.0700	190.9540	0.0408	0.0044
12	127.2950	0.2750	2074.5450	239.0256	0.0476	0.0055
13	127.3200	0.3000	2374.0200	294.5906	0.0545	0.0068
14	127.3450	0.3250	2673.4950	357.6475	0.0614	0.0082
15	127.3700	0.3500	2972.9700	428.1952	0.0683	0.0098
16	127.3950	0.3750	3272.4450	506.2330	0.0751	0.0116
17	127.4200	0.4000	3571.9200	591.7602	0.0820	0.0136
18	127.4325	0.4125	3773.3850	637.6626	0.0866	0.0146
19	127.4450	0.4250	3974.8500	686.0836	0.0912	0.0158
20	127.4575	0.4375	4176.3150	737.0232	0.0959	0.0169
21	127.4700	0.4500	4377.7800	790.4814	0.1005	0.0181
22	127.4825	0.4625	4579.2450	846.4581	0.1051	0.0194
23	127.4950	0.4750	4780.7100	904.9533	0.1098	0.0208
24	127.5075	0.4875	4982.1750	965.9670	0.1144	0.0222
25	127.5200	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	127.5325	0.5125	5439.5550	1095.8877	0.1249	0.0252
27	127.5450	0.5250	5695.4700	1165.4755	0.1308	0.0268
28	127.5575	0.5375	5951.3850	1238.2625	0.1366	0.0284
29	127.5700	0.5500	6207.3000	1314.2486	0.1425	0.0302
30	127.5825	0.5625	6463.2150	1393.4340	0.1484	0.0320
31	127.5950	0.5750	6719.1300	1475.8184	0.1542	0.0339
32	127.6075	0.5875	6975.0450	1561.4020	0.1601	0.0358
33	127.6200	0.6000	7230.9600	1650.1848	0.1660	0.0379
34	127.6450	0.6250	7824.4650	1838.3288	0.1796	0.0422
35	127.6700	0.6500	8417.9700	2041.3141	0.1932	0.0469
36	127.6950	0.6750	9011.4750	2259.1400	0.2069	0.0519
37	127.7200	0.7000	9604.9800	2491.8063	0.2205	0.0572
38	127.7450	0.7250	10198.4850	2739.3125	0.2341	0.0629
39	127.7700	0.7500	10791.9900	3001.6585	0.2478	0.0689
40	127.7950	0.7750	11385.4950	3278.8440	0.2614	0.0753
41	127.8200	0.8000	11979.0000	3570.8687	0.2750	0.0820
42	134.2000	7.1800	11979.0000	79996.8887	0.2750	1.8365

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| Variable storage data for node | A-19
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	126.4200	0.0000	4.3560	0.0000	0.0001	0.0000
2	126.4450	0.0250	150.8265	1.5068	0.0035	0.0000
3	126.4700	0.0500	297.2970	7.0058	0.0068	0.0002
4	126.4950	0.0750	443.7675	16.2082	0.0102	0.0004
5	126.5200	0.1000	590.2380	29.0898	0.0135	0.0007
6	126.5450	0.1250	736.7085	45.6428	0.0169	0.0010
7	126.5700	0.1500	883.1790	65.8638	0.0203	0.0015
8	126.5950	0.1750	1029.6495	89.7507	0.0236	0.0021
9	126.6200	0.2000	1176.1200	117.3026	0.0270	0.0027
10	126.6450	0.2250	1475.5950	150.3783	0.0339	0.0035
11	126.6700	0.2500	1775.0700	190.9540	0.0408	0.0044
12	126.6950	0.2750	2074.5450	239.0256	0.0476	0.0055

13	126.7200	0.3000	2374.0200	294.5906	0.0545	0.0068
14	126.7450	0.3250	2673.4950	357.6475	0.0614	0.0082
15	126.7700	0.3500	2972.9700	428.1952	0.0683	0.0098
16	126.7950	0.3750	3272.4450	506.2330	0.0751	0.0116
17	126.8200	0.4000	3571.9200	591.7602	0.0820	0.0136
18	126.8325	0.4125	3773.3850	637.6626	0.0866	0.0146
19	126.8450	0.4250	3974.8500	686.0836	0.0912	0.0158
20	126.8575	0.4375	4176.3150	737.0232	0.0959	0.0169
21	126.8700	0.4500	4377.7800	790.4814	0.1005	0.0181
22	126.8825	0.4625	4579.2450	846.4581	0.1051	0.0194
23	126.8950	0.4750	4780.7100	904.9533	0.1098	0.0208
24	126.9075	0.4875	4982.1750	965.9670	0.1144	0.0222
25	126.9200	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	126.9325	0.5125	5439.5550	1095.8877	0.1249	0.0252
27	126.9450	0.5250	5695.4700	1165.4755	0.1308	0.0268
28	126.9575	0.5375	5951.3850	1238.2625	0.1366	0.0284
29	126.9700	0.5500	6207.3000	1314.2486	0.1425	0.0302
30	126.9825	0.5625	6463.2150	1393.4340	0.1484	0.0320
31	126.9950	0.5750	6719.1300	1475.8184	0.1542	0.0339
32	127.0075	0.5875	6975.0450	1561.4020	0.1601	0.0358
33	127.0200	0.6000	7230.9600	1650.1848	0.1660	0.0379
34	127.0450	0.6250	7824.4650	1838.3288	0.1796	0.0422
35	127.0700	0.6500	8417.9700	2041.3141	0.1932	0.0469
36	127.0950	0.6750	9011.4750	2259.1400	0.2069	0.0519
37	127.1200	0.7000	9604.9800	2491.8063	0.2205	0.0572
38	127.1450	0.7250	10198.4850	2739.3125	0.2341	0.0629
39	127.1700	0.7500	10791.9900	3001.6585	0.2478	0.0689
40	127.1950	0.7750	11385.4950	3278.8440	0.2614	0.0753
41	127.2200	0.8000	11979.0000	3570.8687	0.2750	0.0820
42	133.3000	6.8800	11979.0000	76403.1887	0.2750	1.7540

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| Variable storage data for node | A-2
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	132.6600	0.0000	4.3560	0.0000	0.0001	0.0000
2	132.6850	0.0250	150.8265	1.5068	0.0035	0.0000
3	132.7100	0.0500	297.2970	7.0058	0.0068	0.0002
4	132.7350	0.0750	443.7675	16.2082	0.0102	0.0004
5	132.7600	0.1000	590.2380	29.0898	0.0135	0.0007
6	132.7850	0.1250	736.7085	45.6428	0.0169	0.0010
7	132.8100	0.1500	883.1790	65.8638	0.0203	0.0015
8	132.8350	0.1750	1029.6495	89.7507	0.0236	0.0021
9	132.8600	0.2000	1176.1200	117.3026	0.0270	0.0027
10	132.8850	0.2250	1475.5950	150.3783	0.0339	0.0035
11	132.9100	0.2500	1775.0700	190.9540	0.0408	0.0044
12	132.9350	0.2750	2074.5450	239.0256	0.0476	0.0055
13	132.9600	0.3000	2374.0200	294.5906	0.0545	0.0068
14	132.9850	0.3250	2673.4950	357.6475	0.0614	0.0082
15	133.0100	0.3500	2972.9700	428.1952	0.0683	0.0098
16	133.0350	0.3750	3272.4450	506.2330	0.0751	0.0116
17	133.0600	0.4000	3571.9200	591.7602	0.0820	0.0136
18	133.0725	0.4125	3773.3850	637.6626	0.0866	0.0146
19	133.0850	0.4250	3974.8500	686.0836	0.0912	0.0158
20	133.0975	0.4375	4176.3150	737.0232	0.0959	0.0169
21	133.1100	0.4500	4377.7800	790.4814	0.1005	0.0181
22	133.1225	0.4625	4579.2450	846.4581	0.1051	0.0194
23	133.1350	0.4750	4780.7100	904.9533	0.1098	0.0208
24	133.1475	0.4875	4982.1750	965.9670	0.1144	0.0222
25	133.1600	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	133.1725	0.5125	5439.5550	1095.8877	0.1249	0.0252
27	133.1850	0.5250	5695.4700	1165.4755	0.1308	0.0268
28	133.1975	0.5375	5951.3850	1238.2625	0.1366	0.0284
29	133.2100	0.5500	6207.3000	1314.2486	0.1425	0.0302
30	133.2225	0.5625	6463.2150	1393.4340	0.1484	0.0320
31	133.2350	0.5750	6719.1300	1475.8184	0.1542	0.0339
32	133.2475	0.5875	6975.0450	1561.4020	0.1601	0.0358
33	133.2600	0.6000	7230.9600	1650.1848	0.1660	0.0379
34	133.2850	0.6250	7824.4650	1838.3288	0.1796	0.0422
35	133.3100	0.6500	8417.9700	2041.3141	0.1932	0.0469
36	133.3350	0.6750	9011.4750	2259.1400	0.2069	0.0519
37	133.3600	0.7000	9604.9800	2491.8063	0.2205	0.0572
38	133.3850	0.7250	10198.4850	2739.3125	0.2341	0.0629
39	133.4100	0.7500	10791.9900	3001.6585	0.2478	0.0689
40	133.4350	0.7750	11385.4950	3278.8440	0.2614	0.0753
41	133.4600	0.8000	11979.0000	3570.8687	0.2750	0.0820
42	136.5100	3.8500	11979.0000	40106.8187	0.2750	0.9207

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| Variable storage data for node | A-20
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	125.7200	0.0000	4.3560	0.0000	0.0001	0.0000
2	125.7450	0.0250	150.8265	1.5068	0.0035	0.0000
3	125.7700	0.0500	297.2970	7.0058	0.0068	0.0002
4	125.7950	0.0750	443.7675	16.2082	0.0102	0.0004
5	125.8200	0.1000	590.2380	29.0898	0.0135	0.0007
6	125.8450	0.1250	736.7085	45.6428	0.0169	0.0010
7	125.8700	0.1500	883.1790	65.8638	0.0203	0.0015
8	125.8950	0.1750	1029.6495	89.7507	0.0236	0.0021
9	125.9200	0.2000	1176.1200	117.3026	0.0270	0.0027
10	125.9450	0.2250	1475.5950	150.3783	0.0339	0.0035
11	125.9700	0.2500	1775.0700	190.9540	0.0408	0.0044
12	125.9950	0.2750	2074.5450	239.0256	0.0476	0.0055
13	126.0200	0.3000	2374.0200	294.5906	0.0545	0.0068
14	126.0450	0.3250	2673.4950	357.6475	0.0614	0.0082
15	126.0700	0.3500	2972.9700	428.1952	0.0683	0.0098
16	126.0950	0.3750	3272.4450	506.2330	0.0751	0.0116
17	126.1200	0.4000	3571.9200	591.7602	0.0820	0.0136
18	126.1325	0.4125	3773.3850	637.6626	0.0866	0.0146
19	126.1450	0.4250	3974.8500	686.0836	0.0912	0.0158
20	126.1575	0.4375	4176.3150	737.0232	0.0959	0.0169
21	126.1700	0.4500	4377.7800	790.4814	0.1005	0.0181
22	126.1825	0.4625	4579.2450	846.4581	0.1051	0.0194
23	126.1950	0.4750	4780.7100	904.9533	0.1098	0.0208
24	126.2075	0.4875	4982.1750	965.9670	0.1144	0.0222
25	126.2200	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	126.2325	0.5125	5439.5550	1095.8877	0.1249	0.0252
27	126.2450	0.5250	5695.4700	1165.4755	0.1308	0.0268
28	126.2575	0.5375	5951.3850	1238.2625	0.1366	0.0284
29	126.2700	0.5500	6207.3000	1314.2486	0.1425	0.0302
30	126.2825	0.5625	6463.2150	1393.4340	0.1484	0.0320
31	126.2950	0.5750	6719.1300	1475.8184	0.1542	0.0339
32	126.3075	0.5875	6975.0450	1561.4020	0.1601	0.0358
33	126.3200	0.6000	7230.9600	1650.1848	0.1660	0.0379
34	126.3450	0.6250	7824.4650	1838.3288	0.1796	0.0422
35	126.3700	0.6500	8417.9700	2041.3141	0.1932	0.0469
36	126.3950	0.6750	9011.4750	2259.1400	0.2069	0.0519
37	126.4200	0.7000	9604.9800	2491.8063	0.2205	0.0572
38	126.4450	0.7250	10198.4850	2739.3125	0.2341	0.0629
39	126.4700	0.7500	10791.9900	3001.6585	0.2478	0.0689
40	126.4950	0.7750	11385.4950	3278.8440	0.2614	0.0753
41	126.5200	0.8000	11979.0000	3570.8687	0.2750	0.0820
42	132.9500	7.2300	11979.0000	80595.8387	0.2750	1.8502

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| Variable storage data for node | A-22
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	128.8900	0.0000	4.3560	0.0000	0.0001	0.0000
2	129.0150	0.1250	820.5615	36.8626	0.0188	0.0008
3	129.1400	0.2500	1636.7670	187.5392	0.0376	0.0043
4	129.2650	0.3750	2452.9725	441.4338	0.0563	0.0101
5	129.3900	0.5000	3269.1780	797.8493	0.0750	0.0183
6	129.5150	0.6250	4085.3835	1256.5629	0.0938	0.0288
7	129.6400	0.7500	4901.5890	1817.4749	0.1125	0.0417
8	129.7650	0.8750	5717.7945	2480.5319	0.1313	0.0569
9	129.8900	1.0000	6534.0000	3245.7020	0.1500	0.0745
10	132.5000	3.6100	6534.0000	20299.4420	0.1500	0.4660

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| Variable storage data for node | A-23
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	128.1800	0.0000	4.3560	0.0000	0.0001	0.0000
2	128.3050	0.1250	548.3115	25.0641	0.0126	0.0006
3	128.4300	0.2500	1092.2670	125.6669	0.0251	0.0029
4	128.5550	0.3750	1636.2225	295.0564	0.0376	0.0068
5	128.6800	0.5000	2180.1780	532.7697	0.0501	0.0122
6	128.8050	0.6250	2724.1335	838.6588	0.0625	0.0193
7	128.9300	0.7500	3268.0890	1212.6572	0.0750	0.0278
8	129.0550	0.8750	3812.0445	1654.7296	0.0875	0.0380
9	129.1800	1.0000	4356.0000	2164.8546	0.1000	0.0497
10	133.0000	4.8200	4356.0000	18804.7746	0.1000	0.4317

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| Variable storage data for node | A-29
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	123.1400	0.0000	4.3560	0.0000	0.0001	0.0000
2	123.1650	0.0250	150.8265	1.5068	0.0035	0.0000
3	123.1900	0.0500	297.2970	7.0058	0.0068	0.0002
4	123.2150	0.0750	443.7675	16.2082	0.0102	0.0004
5	123.2400	0.1000	590.2380	29.0898	0.0135	0.0007
6	123.2650	0.1250	736.7085	45.6428	0.0169	0.0010
7	123.2900	0.1500	883.1790	65.8638	0.0203	0.0015
8	123.3150	0.1750	1029.6495	89.7507	0.0236	0.0021
9	123.3400	0.2000	1176.1200	117.3026	0.0270	0.0027
10	123.3650	0.2250	1475.5950	150.3783	0.0339	0.0035
11	123.3900	0.2500	1775.0700	190.9540	0.0408	0.0044
12	123.4150	0.2750	2074.5450	239.0256	0.0476	0.0055
13	123.4400	0.3000	2374.0200	294.5906	0.0545	0.0068
14	123.4650	0.3250	2673.4950	357.6475	0.0614	0.0082
15	123.4900	0.3500	2972.9700	428.1952	0.0683	0.0098
16	123.5150	0.3750	3272.4450	506.2330	0.0751	0.0116
17	123.5400	0.4000	3571.9200	591.7602	0.0820	0.0136
18	123.5525	0.4125	3773.3850	637.6626	0.0866	0.0146
19	123.5650	0.4250	3974.8500	686.0836	0.0912	0.0158
20	123.5775	0.4375	4176.3150	737.0232	0.0959	0.0169
21	123.5900	0.4500	4377.7800	790.4814	0.1005	0.0181
22	123.6025	0.4625	4579.2450	846.4581	0.1051	0.0194
23	123.6150	0.4750	4780.7100	904.9533	0.1098	0.0208
24	123.6275	0.4875	4982.1750	965.9670	0.1144	0.0222
25	123.6400	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	123.6525	0.5125	5439.5550	1095.8877	0.1249	0.0252
27	123.6650	0.5250	5695.4700	1165.4755	0.1308	0.0268
28	123.6775	0.5375	5951.3850	1238.2625	0.1366	0.0284
29	123.6900	0.5500	6207.3000	1314.2486	0.1425	0.0302
30	123.7025	0.5625	6463.2150	1393.4340	0.1484	0.0320
31	123.7150	0.5750	6719.1300	1475.8184	0.1542	0.0339
32	123.7275	0.5875	6975.0450	1561.4020	0.1601	0.0358
33	123.7400	0.6000	7230.9600	1650.1848	0.1660	0.0379
34	123.7650	0.6250	7824.4650	1838.3288	0.1796	0.0422
35	123.7900	0.6500	8417.9700	2041.3141	0.1932	0.0469
36	123.8150	0.6750	9011.4750	2259.1400	0.2069	0.0519
37	123.8400	0.7000	9604.9800	2491.8063	0.2205	0.0572
38	123.8650	0.7250	10198.4850	2739.3125	0.2341	0.0629
39	123.8900	0.7500	10791.9900	3001.6585	0.2478	0.0689
40	123.9150	0.7750	11385.4950	3278.8440	0.2614	0.0753
41	123.9400	0.8000	11979.0000	3570.8687	0.2750	0.0820
42	131.1700	8.0300	11979.0000	90179.0387	0.2750	2.0702

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| Variable storage data for node | A-3
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	132.4500	0.0000	4.3560	0.0000	0.0001	0.0000
2	132.4750	0.0250	150.8265	1.5068	0.0035	0.0000
3	132.5000	0.0500	297.2970	7.0058	0.0068	0.0002
4	132.5250	0.0750	443.7675	16.2082	0.0102	0.0004
5	132.5500	0.1000	590.2380	29.0898	0.0135	0.0007
6	132.5750	0.1250	736.7085	45.6428	0.0169	0.0010
7	132.6000	0.1500	883.1790	65.8638	0.0203	0.0015
8	132.6250	0.1750	1029.6495	89.7507	0.0236	0.0021
9	132.6500	0.2000	1176.1200	117.3026	0.0270	0.0027
10	132.6750	0.2250	1475.5950	150.3783	0.0339	0.0035
11	132.7000	0.2500	1775.0700	190.9540	0.0408	0.0044
12	132.7250	0.2750	2074.5450	239.0256	0.0476	0.0055
13	132.7500	0.3000	2374.0200	294.5906	0.0545	0.0068
14	132.7750	0.3250	2673.4950	357.6475	0.0614	0.0082
15	132.8000	0.3500	2972.9700	428.1952	0.0683	0.0098
16	132.8250	0.3750	3272.4450	506.2330	0.0751	0.0116
17	132.8500	0.4000	3571.9200	591.7602	0.0820	0.0136
18	132.8625	0.4125	3773.3850	637.6626	0.0866	0.0146
19	132.8750	0.4250	3974.8500	686.0836	0.0912	0.0158
20	132.8875	0.4375	4176.3150	737.0232	0.0959	0.0169
21	132.9000	0.4500	4377.7800	790.4814	0.1005	0.0181
22	132.9125	0.4625	4579.2450	846.4581	0.1051	0.0194
23	132.9250	0.4750	4780.7100	904.9533	0.1098	0.0208
24	132.9375	0.4875	4982.1750	965.9670	0.1144	0.0222
25	132.9500	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	132.9625	0.5125	5439.5550	1095.8877	0.1249	0.0252
27	132.9750	0.5250	5695.4700	1165.4755	0.1308	0.0268
28	132.9875	0.5375	5951.3850	1238.2625	0.1366	0.0284
29	133.0000	0.5500	6207.3000	1314.2486	0.1425	0.0302
30	133.0125	0.5625	6463.2150	1393.4340	0.1484	0.0320
31	133.0250	0.5750	6719.1300	1475.8184	0.1542	0.0339
32	133.0375	0.5875	6975.0450	1561.4020	0.1601	0.0358
33	133.0500	0.6000	7230.9600	1650.1848	0.1660	0.0379
34	133.0750	0.6250	7824.4650	1838.3288	0.1796	0.0422
35	133.1000	0.6500	8417.9700	2041.3141	0.1932	0.0469
36	133.1250	0.6750	9011.4750	2259.1400	0.2069	0.0519
37	133.1500	0.7000	9604.9800	2491.8063	0.2205	0.0572
38	133.1750	0.7250	10198.4850	2739.3125	0.2341	0.0629

39	133.2000	0.7500	10791.9900	3001.6585	0.2478	0.0689
40	133.2250	0.7750	11385.4950	3278.8440	0.2614	0.0753
41	133.2500	0.8000	11979.0000	3570.8687	0.2750	0.0820
42	136.4500	4.0000	11979.0000	41903.6687	0.2750	0.9620

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| Variable storage data for node | A-30
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	122.8500	0.0000	4.3560	0.0000	0.0001	0.0000
2	122.9750	0.1250	657.2115	29.7947	0.0151	0.0007
3	123.1000	0.2500	1310.0670	150.4270	0.0301	0.0035
4	123.2250	0.3750	1962.9225	353.6186	0.0451	0.0081
5	123.3500	0.5000	2615.7780	638.8127	0.0600	0.0147
6	123.4750	0.6250	3268.6335	1005.8316	0.0750	0.0231
7	123.6000	0.7500	3921.4890	1454.5955	0.0900	0.0334
8	123.7250	0.8750	4574.3445	1985.0617	0.1050	0.0456
9	123.8500	1.0000	5227.2000	2597.2048	0.1200	0.0596
10	130.0000	7.1500	5227.2000	34744.4848	0.1200	0.7976

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| Variable storage data for node | A-31
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	123.7400	0.0000	4.3560	0.0000	0.0001	0.0000
2	123.7650	0.0250	150.8265	1.5068	0.0035	0.0000
3	123.7900	0.0500	297.2970	7.0058	0.0068	0.0002
4	123.8150	0.0750	443.7675	16.2082	0.0102	0.0004
5	123.8400	0.1000	590.2380	29.0898	0.0135	0.0007
6	123.8650	0.1250	736.7085	45.6428	0.0169	0.0010
7	123.8900	0.1500	883.1790	65.8638	0.0203	0.0015
8	123.9150	0.1750	1029.6495	89.7507	0.0236	0.0021
9	123.9400	0.2000	1176.1200	117.3026	0.0270	0.0027
10	123.9650	0.2250	1475.5950	150.3783	0.0339	0.0035
11	123.9900	0.2500	1775.0700	190.9540	0.0408	0.0044
12	124.0150	0.2750	2074.5450	239.0256	0.0476	0.0055
13	124.0400	0.3000	2374.0200	294.5906	0.0545	0.0068
14	124.0650	0.3250	2673.4950	357.6475	0.0614	0.0082
15	124.0900	0.3500	2972.9700	428.1952	0.0683	0.0098
16	124.1150	0.3750	3272.4450	506.2330	0.0751	0.0116
17	124.1400	0.4000	3571.9200	591.7602	0.0820	0.0136
18	124.1525	0.4125	3773.3850	637.6626	0.0866	0.0146
19	124.1650	0.4250	3974.8500	686.0836	0.0912	0.0158
20	124.1775	0.4375	4176.3150	737.0232	0.0959	0.0169
21	124.1900	0.4500	4377.7800	790.4814	0.1005	0.0181
22	124.2025	0.4625	4579.2450	846.4581	0.1051	0.0194
23	124.2150	0.4750	4780.7100	904.9533	0.1098	0.0208
24	124.2275	0.4875	4982.1750	965.9670	0.1144	0.0222
25	124.2400	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	124.2525	0.5125	5439.5550	1095.8877	0.1249	0.0252
27	124.2650	0.5250	5695.4700	1165.4755	0.1308	0.0268
28	124.2775	0.5375	5951.3850	1238.2625	0.1366	0.0284
29	124.2900	0.5500	6207.3000	1314.2486	0.1425	0.0302
30	124.3025	0.5625	6463.2150	1393.4340	0.1484	0.0320
31	124.3150	0.5750	6719.1300	1475.8184	0.1542	0.0339
32	124.3275	0.5875	6975.0450	1561.4020	0.1601	0.0358
33	124.3400	0.6000	7230.9600	1650.1848	0.1660	0.0379
34	124.3650	0.6250	7824.4650	1838.3288	0.1796	0.0422
35	124.3900	0.6500	8417.9700	2041.3141	0.1932	0.0469
36	124.4150	0.6750	9011.4750	2259.1400	0.2069	0.0519
37	124.4400	0.7000	9604.9800	2491.8063	0.2205	0.0572
38	124.4650	0.7250	10198.4850	2739.3125	0.2341	0.0629
39	124.4900	0.7500	10791.9900	3001.6585	0.2478	0.0689
40	124.5150	0.7750	11385.4950	3278.8440	0.2614	0.0753
41	124.5400	0.8000	11979.0000	3570.8687	0.2750	0.0820
42	130.8700	7.1300	11979.0000	79397.9387	0.2750	1.8227

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| Variable storage data for node | A-34
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	124.2300	0.0000	4.3560	0.0000	0.0001	0.0000
2	124.2550	0.0250	150.8265	1.5068	0.0035	0.0000
3	124.2800	0.0500	297.2970	7.0058	0.0068	0.0002
4	124.3050	0.0750	443.7675	16.2082	0.0102	0.0004
5	124.3300	0.1000	590.2380	29.0898	0.0135	0.0007
6	124.3550	0.1250	736.7085	45.6428	0.0169	0.0010
7	124.3800	0.1500	883.1790	65.8638	0.0203	0.0015
8	124.4050	0.1750	1029.6495	89.7507	0.0236	0.0021
9	124.4300	0.2000	1176.1200	117.3026	0.0270	0.0027
10	124.4550	0.2250	1475.5950	150.3783	0.0339	0.0035
11	124.4800	0.2500	1775.0700	190.9540	0.0408	0.0044
12	124.5050	0.2750	2074.5450	239.0256	0.0476	0.0055
13	124.5300	0.3000	2374.0200	294.5906	0.0545	0.0068
14	124.5550	0.3250	2673.4950	357.6475	0.0614	0.0082
15	124.5800	0.3500	2972.9700	428.1952	0.0683	0.0098
16	124.6050	0.3750	3272.4450	506.2330	0.0751	0.0116
17	124.6300	0.4000	3571.9200	591.7602	0.0820	0.0136
18	124.6425	0.4125	3773.3850	637.6626	0.0866	0.0146
19	124.6550	0.4250	3974.8500	686.0836	0.0912	0.0158
20	124.6675	0.4375	4176.3150	737.0232	0.0959	0.0169
21	124.6800	0.4500	4377.7800	790.4814	0.1005	0.0181
22	124.6925	0.4625	4579.2450	846.4581	0.1051	0.0194
23	124.7050	0.4750	4780.7100	904.9533	0.1098	0.0208
24	124.7175	0.4875	4982.1750	965.9670	0.1144	0.0222
25	124.7300	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	124.7425	0.5125	5439.5550	1095.8877	0.1249	0.0252
27	124.7550	0.5250	5695.4700	1165.4755	0.1308	0.0268
28	124.7675	0.5375	5951.3850	1238.2625	0.1366	0.0284
29	124.7800	0.5500	6207.3000	1314.2486	0.1425	0.0302
30	124.7925	0.5625	6463.2150	1393.4340	0.1484	0.0320
31	124.8050	0.5750	6719.1300	1475.8184	0.1542	0.0339
32	124.8175	0.5875	6975.0450	1561.4020	0.1601	0.0358
33	124.8300	0.6000	7230.9600	1650.1848	0.1660	0.0379
34	124.8550	0.6250	7824.4650	1838.3288	0.1796	0.0422
35	124.8800	0.6500	8417.9700	2041.3141	0.1932	0.0469
36	124.9050	0.6750	9011.4750	2259.1400	0.2069	0.0519
37	124.9300	0.7000	9604.9800	2491.8063	0.2205	0.0572
38	124.9550	0.7250	10198.4850	2739.3125	0.2341	0.0629
39	124.9800	0.7500	10791.9900	3001.6585	0.2478	0.0689
40	125.0050	0.7750	11385.4950	3278.8440	0.2614	0.0753
41	125.0300	0.8000	11979.0000	3570.8687	0.2750	0.0820
42	130.7700	6.5400	11979.0000	72330.3287	0.2750	1.6605

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| Variable storage data for node | A-35
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	125.0000	0.0000	4.3560	0.0000	0.0001	0.0000
2	125.0250	0.0250	150.8265	1.5068	0.0035	0.0000

3	125.0500	0.0500	297.2970	7.0058	0.0068	0.0002
4	125.0750	0.0750	443.7675	16.2082	0.0102	0.0004
5	125.1000	0.1000	590.2380	29.0898	0.0135	0.0007
6	125.1250	0.1250	736.7085	45.6428	0.0169	0.0010
7	125.1500	0.1500	883.1790	65.8638	0.0203	0.0015
8	125.1750	0.1750	1029.6495	89.7507	0.0236	0.0021
9	125.2000	0.2000	1176.1200	117.3026	0.0270	0.0027
10	125.2250	0.2250	1475.5950	150.3783	0.0339	0.0035
11	125.2500	0.2500	1775.0700	190.9540	0.0408	0.0044
12	125.2750	0.2750	2074.5450	239.0256	0.0476	0.0055
13	125.3000	0.3000	2374.0200	294.5906	0.0545	0.0068
14	125.3250	0.3250	2673.4950	357.6475	0.0614	0.0082
15	125.3500	0.3500	2972.9700	428.1952	0.0683	0.0098
16	125.3750	0.3750	3272.4450	506.2330	0.0751	0.0116
17	125.4000	0.4000	3571.9200	591.7602	0.0820	0.0136
18	125.4125	0.4125	3773.3850	637.6626	0.0866	0.0146
19	125.4250	0.4250	3974.8500	686.0836	0.0912	0.0158
20	125.4375	0.4375	4176.3150	737.0232	0.0959	0.0169
21	125.4500	0.4500	4377.7800	790.4814	0.1005	0.0181
22	125.4625	0.4625	4579.2450	846.4581	0.1051	0.0194
23	125.4750	0.4750	4780.7100	904.9533	0.1098	0.0208
24	125.4875	0.4875	4982.1750	965.9670	0.1144	0.0222
25	125.5000	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	125.5125	0.5125	5439.5550	1095.8877	0.1249	0.0252
27	125.5250	0.5250	5695.4700	1165.4755	0.1308	0.0268
28	125.5375	0.5375	5951.3850	1238.2625	0.1366	0.0284
29	125.5500	0.5500	6207.3000	1314.2486	0.1425	0.0302
30	125.5625	0.5625	6463.2150	1393.4340	0.1484	0.0320
31	125.5750	0.5750	6719.1300	1475.8184	0.1542	0.0339
32	125.5875	0.5875	6975.0450	1561.4020	0.1601	0.0358
33	125.6000	0.6000	7230.9600	1650.1848	0.1660	0.0379
34	125.6250	0.6250	7824.4650	1838.3288	0.1796	0.0422
35	125.6500	0.6500	8417.9700	2041.3141	0.1932	0.0469
36	125.6750	0.6750	9011.4750	2259.1400	0.2069	0.0519
37	125.7000	0.7000	9604.9800	2491.8063	0.2205	0.0572
38	125.7250	0.7250	10198.4850	2739.3125	0.2341	0.0629
39	125.7500	0.7500	10791.9900	3001.6585	0.2478	0.0689
40	125.7750	0.7750	11385.4950	3278.8440	0.2614	0.0753
41	125.8000	0.8000	11979.0000	3570.8687	0.2750	0.0820
42	129.5400	4.5400	11979.0000	48372.3287	0.2750	1.1105

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| Variable storage data for node | A-4
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	132.2100	0.0000	4.3560	0.0000	0.0001	0.0000
2	132.2350	0.0250	150.8265	1.5068	0.0035	0.0000
3	132.2600	0.0500	297.2970	7.0058	0.0068	0.0002
4	132.2850	0.0750	443.7675	16.2082	0.0102	0.0004
5	132.3100	0.1000	590.2380	29.0898	0.0135	0.0007
6	132.3350	0.1250	736.7085	45.6428	0.0169	0.0010
7	132.3600	0.1500	883.1790	65.8638	0.0203	0.0015
8	132.3850	0.1750	1029.6495	89.7507	0.0236	0.0021
9	132.4100	0.2000	1176.1200	117.3026	0.0270	0.0027
10	132.4350	0.2250	1475.5950	150.3783	0.0339	0.0035
11	132.4600	0.2500	1775.0700	190.9540	0.0408	0.0044
12	132.4850	0.2750	2074.5450	239.0256	0.0476	0.0055
13	132.5100	0.3000	2374.0200	294.5906	0.0545	0.0068
14	132.5350	0.3250	2673.4950	357.6475	0.0614	0.0082
15	132.5600	0.3500	2972.9700	428.1952	0.0683	0.0098
16	132.5850	0.3750	3272.4450	506.2330	0.0751	0.0116
17	132.6100	0.4000	3571.9200	591.7602	0.0820	0.0136
18	132.6225	0.4125	3773.3850	637.6626	0.0866	0.0146
19	132.6350	0.4250	3974.8500	686.0836	0.0912	0.0158
20	132.6475	0.4375	4176.3150	737.0232	0.0959	0.0169
21	132.6600	0.4500	4377.7800	790.4814	0.1005	0.0181
22	132.6725	0.4625	4579.2450	846.4581	0.1051	0.0194
23	132.6850	0.4750	4780.7100	904.9533	0.1098	0.0208
24	132.6975	0.4875	4982.1750	965.9670	0.1144	0.0222
25	132.7100	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	132.7225	0.5125	5439.5550	1095.8877	0.1249	0.0252
27	132.7350	0.5250	5695.4700	1165.4755	0.1308	0.0268
28	132.7475	0.5375	5951.3850	1238.2625	0.1366	0.0284
29	132.7600	0.5500	6207.3000	1314.2486	0.1425	0.0302
30	132.7725	0.5625	6463.2150	1393.4340	0.1484	0.0320
31	132.7850	0.5750	6719.1300	1475.8184	0.1542	0.0339
32	132.7975	0.5875	6975.0450	1561.4020	0.1601	0.0358
33	132.8100	0.6000	7230.9600	1650.1848	0.1660	0.0379
34	132.8350	0.6250	7824.4650	1838.3288	0.1796	0.0422
35	132.8600	0.6500	8417.9700	2041.3141	0.1932	0.0469
36	132.8850	0.6750	9011.4750	2259.1400	0.2069	0.0519
37	132.9100	0.7000	9604.9800	2491.8063	0.2205	0.0572
38	132.9350	0.7250	10198.4850	2739.3125	0.2341	0.0629
39	132.9600	0.7500	10791.9900	3001.6585	0.2478	0.0689
40	132.9850	0.7750	11385.4950	3278.8440	0.2614	0.0753
41	133.0100	0.8000	11979.0000	3570.8687	0.2750	0.0820
42	136.4500	4.2400	11979.0000	44778.6287	0.2750	1.0280

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| Variable storage data for node | A-41
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	133.8500	0.0000	4.3560	0.0000	0.0001	0.0000
2	133.9750	0.1250	875.0115	39.2127	0.0201	0.0009
3	134.1000	0.2500	1745.6670	199.9040	0.0401	0.0046
4	134.2250	0.3750	2616.3225	470.6997	0.0601	0.0108
5	134.3500	0.5000	3486.9780	850.8556	0.0800	0.0195
6	134.4750	0.6250	4357.6335	1340.1341	0.1000	0.0308
7	134.6000	0.7500	5228.2890	1938.4288	0.1200	0.0445
8	134.7250	0.8750	6098.9445	2645.6827	0.1400	0.0607
9	134.8500	1.0000	6969.6000	3461.8619	0.1600	0.0795
10	138.5000	4.6500	6969.6000	28900.9019	0.1600	0.6635

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| Variable storage data for node | A-43
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	131.9000	0.0000	4.3560	0.0000	0.0001	0.0000
2	132.0250	0.1250	657.2115	29.7947	0.0151	0.0007
3	132.1500	0.2500	1310.0670	150.4270	0.0301	0.0035
4	132.2750	0.3750	1962.9225	353.6186	0.0451	0.0081
5	132.4000	0.5000	2615.7780	638.8127	0.0600	0.0147
6	132.5250	0.6250	3268.6335	1005.8316	0.0750	0.0231
7	132.6500	0.7500	3921.4890	1454.5955	0.0900	0.0334
8	132.7750	0.8750	4574.3445	1985.0617	0.1050	0.0456
9	132.9000	1.0000	5227.2000	2597.2048	0.1200	0.0596
10	137.5000	5.6000	5227.2000	26642.3248	0.1200	0.6116

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| Variable storage data for node | A-44
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Data	Elevation	Depth	Area	Volume	Area	Volume

Point	ft	ft	ft^2	ft^3	acres	ac-ft
1	130.8500	0.0000	4.3560	0.0000	0.0001	0.0000
2	130.9750	0.1250	657.2115	29.7947	0.0151	0.0007
3	131.1000	0.2500	1310.0670	150.4270	0.0301	0.0035
4	131.2250	0.3750	1962.9225	353.6186	0.0451	0.0081
5	131.3500	0.5000	2615.7780	638.8127	0.0600	0.0147
6	131.4750	0.6250	3268.6335	1005.8316	0.0750	0.0231
7	131.6000	0.7500	3921.4890	1454.5955	0.0900	0.0334
8	131.7250	0.8750	4574.3445	1985.0617	0.1050	0.0456
9	131.8500	1.0000	5227.2000	2597.2048	0.1200	0.0596
10	137.0000	6.1500	5227.2000	29517.2848	0.1200	0.6776

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| Variable storage data for node | A-46
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	128.8700	0.0000	4.3560	0.0000	0.0001	0.0000
2	128.8950	0.0250	150.8265	1.5068	0.0035	0.0000
3	128.9200	0.0500	297.2970	7.0058	0.0068	0.0002
4	128.9450	0.0750	443.7675	16.2082	0.0102	0.0004
5	128.9700	0.1000	590.2380	29.0898	0.0135	0.0007
6	128.9950	0.1250	736.7085	45.6428	0.0169	0.0010
7	129.0200	0.1500	883.1790	65.8638	0.0203	0.0015
8	129.0450	0.1750	1029.6495	89.7507	0.0236	0.0021
9	129.0700	0.2000	1176.1200	117.3026	0.0270	0.0027
10	129.0950	0.2250	1475.5950	150.3783	0.0339	0.0035
11	129.1200	0.2500	1775.0700	190.9540	0.0408	0.0044
12	129.1450	0.2750	2074.5450	239.0256	0.0476	0.0055
13	129.1700	0.3000	2374.0200	294.5906	0.0545	0.0068
14	129.1950	0.3250	2673.4950	357.6475	0.0614	0.0082
15	129.2200	0.3500	2972.9700	428.1952	0.0683	0.0098
16	129.2450	0.3750	3272.4450	506.2330	0.0751	0.0116
17	129.2700	0.4000	3571.9200	591.7602	0.0820	0.0136
18	129.2825	0.4125	3773.3850	637.6626	0.0866	0.0146
19	129.2950	0.4250	3974.8500	686.0836	0.0912	0.0158
20	129.3075	0.4375	4176.3150	737.0232	0.0959	0.0169
21	129.3200	0.4500	4377.7800	790.4814	0.1005	0.0181
22	129.3325	0.4625	4579.2450	846.4581	0.1051	0.0194
23	129.3450	0.4750	4780.7100	904.9533	0.1098	0.0208
24	129.3575	0.4875	4982.1750	965.9670	0.1144	0.0222
25	129.3700	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	136.2700	7.4000	5183.6400	36796.6151	0.1190	0.8447

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| Variable storage data for node | A-47
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	127.8800	0.0000	4.3560	0.0000	0.0001	0.0000
2	127.9050	0.0250	150.8265	1.5068	0.0035	0.0000
3	127.9300	0.0500	297.2970	7.0058	0.0068	0.0002
4	127.9550	0.0750	443.7675	16.2082	0.0102	0.0004
5	127.9800	0.1000	590.2380	29.0898	0.0135	0.0007
6	128.0050	0.1250	736.7085	45.6428	0.0169	0.0010
7	128.0300	0.1500	883.1790	65.8638	0.0203	0.0015
8	128.0550	0.1750	1029.6495	89.7507	0.0236	0.0021
9	128.0800	0.2000	1176.1200	117.3026	0.0270	0.0027
10	128.1050	0.2250	1475.5950	150.3783	0.0339	0.0035
11	128.1300	0.2500	1775.0700	190.9540	0.0408	0.0044
12	128.1550	0.2750	2074.5450	239.0256	0.0476	0.0055
13	128.1800	0.3000	2374.0200	294.5906	0.0545	0.0068
14	128.2050	0.3250	2673.4950	357.6475	0.0614	0.0082
15	128.2300	0.3500	2972.9700	428.1952	0.0683	0.0098
16	128.2550	0.3750	3272.4450	506.2330	0.0751	0.0116
17	128.2800	0.4000	3571.9200	591.7602	0.0820	0.0136
18	128.2925	0.4125	3773.3850	637.6626	0.0866	0.0146
19	128.3050	0.4250	3974.8500	686.0836	0.0912	0.0158
20	128.3175	0.4375	4176.3150	737.0232	0.0959	0.0169
21	128.3300	0.4500	4377.7800	790.4814	0.1005	0.0181
22	128.3425	0.4625	4579.2450	846.4581	0.1051	0.0194
23	128.3550	0.4750	4780.7100	904.9533	0.1098	0.0208
24	128.3675	0.4875	4982.1750	965.9670	0.1144	0.0222
25	128.3800	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	135.9200	8.0400	5183.6400	40114.1447	0.1190	0.9209

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| Variable storage data for node | A-48
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	127.2800	0.0000	4.3560	0.0000	0.0001	0.0000
2	127.3050	0.0250	150.8265	1.5068	0.0035	0.0000
3	127.3300	0.0500	297.2970	7.0058	0.0068	0.0002
4	127.3550	0.0750	443.7675	16.2082	0.0102	0.0004
5	127.3800	0.1000	590.2380	29.0898	0.0135	0.0007
6	127.4050	0.1250	736.7085	45.6428	0.0169	0.0010
7	127.4300	0.1500	883.1790	65.8638	0.0203	0.0015
8	127.4550	0.1750	1029.6495	89.7507	0.0236	0.0021
9	127.4800	0.2000	1176.1200	117.3026	0.0270	0.0027
10	127.5050	0.2250	1475.5950	150.3783	0.0339	0.0035
11	127.5300	0.2500	1775.0700	190.9540	0.0408	0.0044
12	127.5550	0.2750	2074.5450	239.0256	0.0476	0.0055
13	127.5800	0.3000	2374.0200	294.5906	0.0545	0.0068
14	127.6050	0.3250	2673.4950	357.6475	0.0614	0.0082
15	127.6300	0.3500	2972.9700	428.1952	0.0683	0.0098
16	127.6550	0.3750	3272.4450	506.2330	0.0751	0.0116
17	127.6800	0.4000	3571.9200	591.7602	0.0820	0.0136
18	127.6925	0.4125	3773.3850	637.6626	0.0866	0.0146
19	127.7050	0.4250	3974.8500	686.0836	0.0912	0.0158
20	127.7175	0.4375	4176.3150	737.0232	0.0959	0.0169
21	127.7300	0.4500	4377.7800	790.4814	0.1005	0.0181
22	127.7425	0.4625	4579.2450	846.4581	0.1051	0.0194
23	127.7550	0.4750	4780.7100	904.9533	0.1098	0.0208
24	127.7675	0.4875	4982.1750	965.9670	0.1144	0.0222
25	127.7800	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	135.2200	7.9400	5183.6400	39595.7807	0.1190	0.9090

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| Variable storage data for node | A-49
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	132.0200	0.0000	4.3560	0.0000	0.0001	0.0000
2	132.0825	0.0625	129.0465	3.2732	0.0030	0.0001
3	132.1450	0.1250	253.7370	15.0177	0.0058	0.0003
4	132.2075	0.1875	378.4275	34.6434	0.0087	0.0008
5	132.2700	0.2500	503.1180	62.0994	0.0115	0.0014
6	132.3325	0.3125	627.8085	97.3690	0.0144	0.0022
7	132.3950	0.3750	752.4990	140.4449	0.0173	0.0032
8	132.4575	0.4375	877.1895	191.3229	0.0201	0.0044
9	132.5200	0.5000	1001.8800	250.0006	0.0230	0.0057
10	137.9700	5.9500	1001.8800	5710.2466	0.0230	0.1311

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| Variable storage data for node | A-5
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	130.8500	0.0000	4.3560	0.0000	0.0001	0.0000
2	130.8750	0.0250	150.8265	1.5068	0.0035	0.0000
3	130.9000	0.0500	297.2970	7.0058	0.0068	0.0002
4	130.9250	0.0750	443.7675	16.2082	0.0102	0.0004
5	130.9500	0.1000	590.2380	29.0898	0.0135	0.0007
6	130.9750	0.1250	736.7085	45.6428	0.0169	0.0010
7	131.0000	0.1500	883.1790	65.8638	0.0203	0.0015
8	131.0250	0.1750	1029.6495	89.7507	0.0236	0.0021
9	131.0500	0.2000	1176.1200	117.3026	0.0270	0.0027
10	131.0750	0.2250	1475.5950	150.3783	0.0339	0.0035
11	131.1000	0.2500	1775.0700	190.9540	0.0408	0.0044
12	131.1250	0.2750	2074.5450	239.0256	0.0476	0.0055
13	131.1500	0.3000	2374.0200	294.5906	0.0545	0.0068
14	131.1750	0.3250	2673.4950	357.6475	0.0614	0.0082
15	131.2000	0.3500	2972.9700	428.1952	0.0683	0.0098
16	131.2250	0.3750	3272.4450	506.2330	0.0751	0.0116
17	131.2500	0.4000	3571.9200	591.7602	0.0820	0.0136
18	131.2625	0.4125	3773.3850	637.6626	0.0866	0.0146
19	131.2750	0.4250	3974.8500	686.0836	0.0912	0.0158
20	131.2875	0.4375	4176.3150	737.0232	0.0959	0.0169
21	131.3000	0.4500	4377.7800	790.4814	0.1005	0.0181
22	131.3125	0.4625	4579.2450	846.4581	0.1051	0.0194
23	131.3250	0.4750	4780.7100	904.9533	0.1098	0.0208
24	131.3375	0.4875	4982.1750	965.9670	0.1144	0.0222
25	131.3500	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	131.3625	0.5125	5439.5550	1095.8877	0.1249	0.0252
27	131.3750	0.5250	5695.4700	1165.4755	0.1308	0.0268
28	131.3875	0.5375	5951.3850	1238.2625	0.1366	0.0284
29	131.4000	0.5500	6207.3000	1314.2486	0.1425	0.0302
30	131.4125	0.5625	6463.2150	1393.4340	0.1484	0.0320
31	131.4250	0.5750	6719.1300	1475.8184	0.1542	0.0339
32	131.4375	0.5875	6975.0450	1561.4020	0.1601	0.0358
33	131.4500	0.6000	7230.9600	1650.1848	0.1660	0.0379
34	131.4750	0.6250	7824.4650	1838.3288	0.1796	0.0422
35	131.5000	0.6500	8417.9700	2041.3141	0.1932	0.0469
36	131.5250	0.6750	9011.4750	2259.1400	0.2069	0.0519
37	131.5500	0.7000	9604.9800	2491.8063	0.2205	0.0572
38	131.5750	0.7250	10198.4850	2739.3125	0.2341	0.0629
39	131.6000	0.7500	10791.9900	3001.6585	0.2478	0.0689
40	131.6250	0.7750	11385.4950	3278.8440	0.2614	0.0753
41	131.6500	0.8000	11979.0000	3570.8687	0.2750	0.0820
42	136.0700	5.2200	11979.0000	56518.0487	0.2750	1.2975

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| Variable storage data for node | A-50
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	129.8600	0.0000	4.3560	0.0000	0.0001	0.0000
2	129.9850	0.1250	820.5615	36.8626	0.0188	0.0008
3	130.1100	0.2500	1636.7670	187.5392	0.0376	0.0043
4	130.2350	0.3750	2452.9725	441.4338	0.0563	0.0101
5	130.3600	0.5000	3269.1780	797.8493	0.0750	0.0183
6	130.4850	0.6250	4085.3835	1256.5629	0.0938	0.0288
7	130.6100	0.7500	4901.5890	1817.4749	0.1125	0.0417
8	130.7350	0.8750	5717.7945	2480.5319	0.1313	0.0569
9	130.8600	1.0000	6534.0000	3245.7020	0.1500	0.0745
10	130.9850	1.1250	7296.3000	4109.6578	0.1675	0.0943
11	131.1100	1.2500	8058.6000	5068.9446	0.1850	0.1164
12	131.2350	1.3750	8820.9000	6123.5545	0.2025	0.1406
13	131.3600	1.5000	9583.2000	7273.4817	0.2200	0.1670
14	131.4850	1.6250	10345.5000	8518.7216	0.2375	0.1956
15	131.6100	1.7500	11107.8000	9859.2706	0.2550	0.2263
16	131.7350	1.8750	11870.1000	11295.1259	0.2725	0.2593
17	131.8600	2.0000	12632.4000	12826.2850	0.2900	0.2945
18	137.6000	7.7400	12632.4000	85336.2610	0.2900	1.9591

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| Variable storage data for node | A-51
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	132.0200	0.0000	4.3560	0.0000	0.0001	0.0000
2	132.0825	0.0625	129.0465	3.2732	0.0030	0.0001
3	132.1450	0.1250	253.7370	15.0177	0.0058	0.0003
4	132.2075	0.1875	378.4275	34.6434	0.0087	0.0008
5	132.2700	0.2500	503.1180	62.0994	0.0115	0.0014
6	132.3325	0.3125	627.8085	97.3690	0.0144	0.0022
7	132.3950	0.3750	752.4990	140.4449	0.0173	0.0032
8	132.4575	0.4375	877.1895	191.3229	0.0201	0.0044
9	132.5200	0.5000	1001.8800	250.0006	0.0230	0.0057
10	137.0500	5.0300	1001.8800	4788.5170	0.0230	0.1099

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| Variable storage data for node | A-52
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	126.6800	0.0000	4.3560	0.0000	0.0001	0.0000
2	126.7050	0.0250	150.8265	1.5068	0.0035	0.0000
3	126.7300	0.0500	297.2970	7.0058	0.0068	0.0002
4	126.7550	0.0750	443.7675	16.2082	0.0102	0.0004
5	126.7800	0.1000	590.2380	29.0898	0.0135	0.0007
6	126.8050	0.1250	736.7085	45.6428	0.0169	0.0010
7	126.8300	0.1500	883.1790	65.8638	0.0203	0.0015
8	126.8550	0.1750	1029.6495	89.7507	0.0236	0.0021
9	126.8800	0.2000	1176.1200	117.3026	0.0270	0.0027
10	126.9050	0.2250	1475.5950	150.3783	0.0339	0.0035
11	126.9300	0.2500	1775.0700	190.9540	0.0408	0.0044
12	126.9550	0.2750	2074.5450	239.0256	0.0476	0.0055
13	126.9800	0.3000	2374.0200	294.5906	0.0545	0.0068
14	127.0050	0.3250	2673.4950	357.6475	0.0614	0.0082
15	127.0300	0.3500	2972.9700	428.1952	0.0683	0.0098
16	127.0550	0.3750	3272.4450	506.2330	0.0751	0.0116
17	127.0800	0.4000	3571.9200	591.7602	0.0820	0.0136
18	127.0925	0.4125	3773.3850	637.6626	0.0866	0.0146
19	127.1050	0.4250	3974.8500	686.0836	0.0912	0.0158
20	127.1175	0.4375	4176.3150	737.0232	0.0959	0.0169
21	127.1300	0.4500	4377.7800	790.4814	0.1005	0.0181
22	127.1425	0.4625	4579.2450	846.4581	0.1051	0.0194
23	127.1550	0.4750	4780.7100	904.9533	0.1098	0.0208
24	127.1675	0.4875	4982.1750	965.9670	0.1144	0.0222
25	127.1800	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	134.5200	7.8400	5183.6400	39077.4167	0.1190	0.8971

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| Variable storage data for node | A-53
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	125.7900	0.0000	4.3560	0.0000	0.0001	0.0000
2	125.8150	0.0250	150.8265	1.5068	0.0035	0.0000
3	125.8400	0.0500	297.2970	7.0058	0.0068	0.0002
4	125.8650	0.0750	443.7675	16.2082	0.0102	0.0004
5	125.8900	0.1000	590.2380	29.0898	0.0135	0.0007
6	125.9150	0.1250	736.7085	45.6428	0.0169	0.0010
7	125.9400	0.1500	883.1790	65.8638	0.0203	0.0015
8	125.9650	0.1750	1029.6495	89.7507	0.0236	0.0021
9	125.9900	0.2000	1176.1200	117.3026	0.0270	0.0027
10	126.0150	0.2250	1475.5950	150.3783	0.0339	0.0035
11	126.0400	0.2500	1775.0700	190.9540	0.0408	0.0044
12	126.0650	0.2750	2074.5450	239.0256	0.0476	0.0055
13	126.0900	0.3000	2374.0200	294.5906	0.0545	0.0068
14	126.1150	0.3250	2673.4950	357.6475	0.0614	0.0082
15	126.1400	0.3500	2972.9700	428.1952	0.0683	0.0098
16	126.1650	0.3750	3272.4450	506.2330	0.0751	0.0116
17	126.1900	0.4000	3571.9200	591.7602	0.0820	0.0136
18	126.2025	0.4125	3773.3850	637.6626	0.0866	0.0146
19	126.2150	0.4250	3974.8500	686.0836	0.0912	0.0158
20	126.2275	0.4375	4176.3150	737.0232	0.0959	0.0169
21	126.2400	0.4500	4377.7800	790.4814	0.1005	0.0181
22	126.2525	0.4625	4579.2450	846.4581	0.1051	0.0194
23	126.2650	0.4750	4780.7100	904.9533	0.1098	0.0208
24	126.2775	0.4875	4982.1750	965.9670	0.1144	0.0222
25	126.2900	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	134.5200	8.7300	5183.6400	43690.8563	0.1190	1.0030

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| Variable storage data for node | A-54
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	123.9200	0.0000	4.3560	0.0000	0.0001	0.0000
2	123.9450	0.0250	150.8265	1.5068	0.0035	0.0000
3	123.9700	0.0500	297.2970	7.0058	0.0068	0.0002
4	123.9950	0.0750	443.7675	16.2082	0.0102	0.0004
5	124.0200	0.1000	590.2380	29.0898	0.0135	0.0007
6	124.0450	0.1250	736.7085	45.6428	0.0169	0.0010
7	124.0700	0.1500	883.1790	65.8638	0.0203	0.0015
8	124.0950	0.1750	1029.6495	89.7507	0.0236	0.0021
9	124.1200	0.2000	1176.1200	117.3026	0.0270	0.0027
10	124.1450	0.2250	1475.5950	150.3783	0.0339	0.0035
11	124.1700	0.2500	1775.0700	190.9540	0.0408	0.0044
12	124.1950	0.2750	2074.5450	239.0256	0.0476	0.0055
13	124.2200	0.3000	2374.0200	294.5906	0.0545	0.0068
14	124.2450	0.3250	2673.4950	357.6475	0.0614	0.0082
15	124.2700	0.3500	2972.9700	428.1952	0.0683	0.0098
16	124.2950	0.3750	3272.4450	506.2330	0.0751	0.0116
17	124.3200	0.4000	3571.9200	591.7602	0.0820	0.0136
18	124.3325	0.4125	3773.3850	637.6626	0.0866	0.0146
19	124.3450	0.4250	3974.8500	686.0836	0.0912	0.0158
20	124.3575	0.4375	4176.3150	737.0232	0.0959	0.0169
21	124.3700	0.4500	4377.7800	790.4814	0.1005	0.0181
22	124.3825	0.4625	4579.2450	846.4581	0.1051	0.0194
23	124.3950	0.4750	4780.7100	904.9533	0.1098	0.0208
24	124.4075	0.4875	4982.1750	965.9670	0.1144	0.0222
25	124.4200	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	134.1700	10.2500	5183.6400	51569.9891	0.1190	1.1839

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| Variable storage data for node | A-55
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	123.7000	0.0000	4.3560	0.0000	0.0001	0.0000
2	123.7250	0.0250	150.8265	1.5068	0.0035	0.0000
3	123.7500	0.0500	297.2970	7.0058	0.0068	0.0002
4	123.7750	0.0750	443.7675	16.2082	0.0102	0.0004
5	123.8000	0.1000	590.2380	29.0898	0.0135	0.0007
6	123.8250	0.1250	736.7085	45.6428	0.0169	0.0010
7	123.8500	0.1500	883.1790	65.8638	0.0203	0.0015
8	123.8750	0.1750	1029.6495	89.7507	0.0236	0.0021
9	123.9000	0.2000	1176.1200	117.3026	0.0270	0.0027
10	123.9250	0.2250	1475.5950	150.3783	0.0339	0.0035
11	123.9500	0.2500	1775.0700	190.9540	0.0408	0.0044
12	123.9750	0.2750	2074.5450	239.0256	0.0476	0.0055
13	124.0000	0.3000	2374.0200	294.5906	0.0545	0.0068
14	124.0250	0.3250	2673.4950	357.6475	0.0614	0.0082
15	124.0500	0.3500	2972.9700	428.1952	0.0683	0.0098
16	124.0750	0.3750	3272.4450	506.2330	0.0751	0.0116
17	124.1000	0.4000	3571.9200	591.7602	0.0820	0.0136
18	124.1125	0.4125	3773.3850	637.6626	0.0866	0.0146
19	124.1250	0.4250	3974.8500	686.0836	0.0912	0.0158
20	124.1375	0.4375	4176.3150	737.0232	0.0959	0.0169
21	124.1500	0.4500	4377.7800	790.4814	0.1005	0.0181
22	124.1625	0.4625	4579.2450	846.4581	0.1051	0.0194
23	124.1750	0.4750	4780.7100	904.9533	0.1098	0.0208
24	124.1875	0.4875	4982.1750	965.9670	0.1144	0.0222
25	124.2000	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	133.1200	9.4200	5183.6400	47267.5679	0.1190	1.0851

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| Variable storage data for node | A-56
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	128.2300	0.0000	4.3560	0.0000	0.0001	0.0000
2	128.3550	0.1250	657.2115	29.7947	0.0151	0.0007
3	128.4800	0.2500	1310.0670	150.4270	0.0301	0.0035
4	128.6050	0.3750	1962.9225	353.6186	0.0451	0.0081
5	128.7300	0.5000	2615.7780	638.8127	0.0600	0.0147
6	128.8550	0.6250	3268.6335	1005.8316	0.0750	0.0231
7	128.9800	0.7500	3921.4890	1454.5955	0.0900	0.0334
8	129.1050	0.8750	4574.3445	1985.0617	0.1050	0.0456
9	129.2300	1.0000	5227.2000	2597.2048	0.1200	0.0596
10	132.0000	3.7700	5227.2000	17076.5488	0.1200	0.3920

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| Variable storage data for node | A-57
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	127.8600	0.0000	4.3560	0.0000	0.0001	0.0000
2	127.9850	0.1250	657.2115	29.7947	0.0151	0.0007
3	128.1100	0.2500	1310.0670	150.4270	0.0301	0.0035
4	128.2350	0.3750	1962.9225	353.6186	0.0451	0.0081
5	128.3600	0.5000	2615.7780	638.8127	0.0600	0.0147
6	128.4850	0.6250	3268.6335	1005.8316	0.0750	0.0231
7	128.6100	0.7500	3921.4890	1454.5955	0.0900	0.0334
8	128.7350	0.8750	4574.3445	1985.0617	0.1050	0.0456
9	128.8600	1.0000	5227.2000	2597.2048	0.1200	0.0596

10	132.0000	4.1400	5227.2000	19010.6128	0.1200	0.4364

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| Variable storage data for node | A-58
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	126.0000	0.0000	4.3560	0.0000	0.0001	0.0000
2	126.1250	0.1250	657.2115	29.7947	0.0151	0.0007
3	126.2500	0.2500	1310.0670	150.4270	0.0301	0.0035
4	126.3750	0.3750	1962.9225	353.6186	0.0451	0.0081
5	126.5000	0.5000	2615.7780	638.8127	0.0600	0.0147
6	126.6250	0.6250	3268.6335	1005.8316	0.0750	0.0231
7	126.7500	0.7500	3921.4890	1454.5955	0.0900	0.0334
8	126.8750	0.8750	4574.3445	1985.0617	0.1050	0.0456
9	127.0000	1.0000	5227.2000	2597.2048	0.1200	0.0596
10	132.0000	6.0000	5227.2000	28733.2048	0.1200	0.6596

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| Variable storage data for node | A-60
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	123.0500	0.0000	4.3560	0.0000	0.0001	0.0000
2	123.1750	0.1250	455.7465	21.0274	0.0105	0.0005
3	123.3000	0.2500	907.1370	104.6051	0.0208	0.0024
4	123.4250	0.3750	1358.5275	245.2629	0.0312	0.0056
5	123.5500	0.5000	1809.9180	442.6174	0.0416	0.0102
6	123.6750	0.6250	2261.3085	696.5462	0.0519	0.0160
7	123.8000	0.7500	2712.6990	1006.9940	0.0623	0.0231
8	123.9250	0.8750	3164.0895	1373.9316	0.0726	0.0315
9	124.0500	1.0000	3615.4800	1797.3413	0.0830	0.0413
10	131.0000	7.9500	3615.4800	26924.9273	0.0830	0.6181

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| Variable storage data for node | A-62
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	127.5000	0.0000	4.3560	0.0000	0.0001	0.0000
2	127.5250	0.0250	150.8265	1.5068	0.0035	0.0000
3	127.5500	0.0500	297.2970	7.0058	0.0068	0.0002
4	127.5750	0.0750	443.7675	16.2082	0.0102	0.0004
5	127.6000	0.1000	590.2380	29.0898	0.0135	0.0007
6	127.6250	0.1250	736.7085	45.6428	0.0169	0.0010
7	127.6500	0.1500	883.1790	65.8638	0.0203	0.0015
8	127.6750	0.1750	1029.6495	89.7507	0.0236	0.0021
9	127.7000	0.2000	1176.1200	117.3026	0.0270	0.0027
10	127.7250	0.2250	1475.5950	150.3783	0.0339	0.0035
11	127.7500	0.2500	1775.0700	190.9540	0.0408	0.0044
12	127.7750	0.2750	2074.5450	239.0256	0.0476	0.0055
13	127.8000	0.3000	2374.0200	294.5906	0.0545	0.0068
14	127.8250	0.3250	2673.4950	357.6475	0.0614	0.0082
15	127.8500	0.3500	2972.9700	428.1952	0.0683	0.0098
16	127.8750	0.3750	3272.4450	506.2330	0.0751	0.0116
17	127.9000	0.4000	3571.9200	591.7602	0.0820	0.0136
18	127.9125	0.4125	3773.3850	637.6626	0.0866	0.0146
19	127.9250	0.4250	3974.8500	686.0836	0.0912	0.0158
20	127.9375	0.4375	4176.3150	737.0232	0.0959	0.0169
21	127.9500	0.4500	4377.7800	790.4814	0.1005	0.0181
22	127.9625	0.4625	4579.2450	846.4581	0.1051	0.0194
23	127.9750	0.4750	4780.7100	904.9533	0.1098	0.0208
24	127.9875	0.4875	4982.1750	965.9670	0.1144	0.0222
25	128.0000	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	131.0200	3.5200	5183.6400	16684.0919	0.1190	0.3830

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| Variable storage data for node | A-63
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	126.6200	0.0000	4.3560	0.0000	0.0001	0.0000
2	127.1200	0.5000	3940.5465	679.3196	0.0905	0.0156
3	127.6200	1.0000	7876.7370	3577.4059	0.1808	0.0821
4	128.1200	1.5000	11812.9275	8466.7006	0.2712	0.1944
5	128.6200	2.0000	15749.1180	15333.6691	0.3615	0.3520
6	129.1200	2.5000	19685.3085	24174.0005	0.4519	0.5550
7	129.6200	3.0000	23621.4990	34985.7647	0.5423	0.8032
8	130.1200	3.5000	27557.6895	47767.9292	0.6326	1.0966
9	130.6200	4.0000	31493.8800	62519.8772	0.7230	1.4353
10	132.0700	5.4500	31493.8800	108186.0032	0.7230	2.4836

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| Variable storage data for node | A-8
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	133.0000	0.0000	4.3560	0.0000	0.0001	0.0000
2	133.1875	0.1875	1092.8115	72.8851	0.0251	0.0017
3	133.3750	0.3750	2181.2670	374.0106	0.0501	0.0086
4	133.5625	0.5625	3269.7225	881.6103	0.0751	0.0202
5	133.7500	0.7500	4358.1780	1594.2867	0.1001	0.0366
6	133.9375	0.9375	5446.6335	2511.5939	0.1250	0.0577
7	134.1250	1.1250	6535.0890	3633.3322	0.1500	0.0834
8	134.3125	1.3125	7623.5445	4959.3947	0.1750	0.1139
9	134.5000	1.5000	8712.0000	6489.7175	0.2000	0.1490
10	137.5000	4.5000	8712.0000	32625.7175	0.2000	0.7490

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| Variable storage data for node | B-10
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	124.5000	0.0000	4.3560	0.0000	0.0001	0.0000
2	124.6250	0.1250	548.3115	25.0641	0.0126	0.0006
3	124.7500	0.2500	1092.2670	125.6669	0.0251	0.0029
4	124.8750	0.3750	1636.2225	295.0564	0.0376	0.0068
5	125.0000	0.5000	2180.1780	532.7697	0.0501	0.0122
6	125.1250	0.6250	2724.1335	838.6588	0.0625	0.0193
7	125.2500	0.7500	3268.0890	1212.6572	0.0750	0.0278
8	125.3750	0.8750	3812.0445	1654.7296	0.0875	0.0380
9	125.5000	1.0000	4356.0000	2164.8546	0.1000	0.0497
10	127.5000	3.0000	4356.0000	10876.8546	0.1000	0.2497

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| Variable storage data for node | B-12
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	122.8500	0.0000	4.3560	0.0000	0.0001	0.0000
2	122.8750	0.0250	150.8265	1.5068	0.0035	0.0000

3	122.9000	0.0500	297.2970	7.0058	0.0068	0.0002
4	122.9250	0.0750	443.7675	16.2082	0.0102	0.0004
5	122.9500	0.1000	590.2380	29.0898	0.0135	0.0007
6	122.9750	0.1250	736.7085	45.6428	0.0169	0.0010
7	123.0000	0.1500	883.1790	65.8638	0.0203	0.0015
8	123.0250	0.1750	1029.6495	89.7507	0.0236	0.0021
9	123.0500	0.2000	1176.1200	117.3026	0.0270	0.0027
10	123.0750	0.2250	1475.5950	150.3783	0.0339	0.0035
11	123.1000	0.2500	1775.0700	190.9540	0.0408	0.0044
12	123.1250	0.2750	2074.5450	239.0256	0.0476	0.0055
13	123.1500	0.3000	2374.0200	294.5906	0.0545	0.0068
14	123.1750	0.3250	2673.4950	357.6475	0.0614	0.0082
15	123.2000	0.3500	2972.9700	428.1952	0.0683	0.0098
16	123.2250	0.3750	3272.4450	506.2330	0.0751	0.0116
17	123.2500	0.4000	3571.9200	591.7602	0.0820	0.0136
18	123.2625	0.4125	3773.3850	637.6626	0.0866	0.0146
19	123.2750	0.4250	3974.8500	686.0836	0.0912	0.0158
20	123.2875	0.4375	4176.3150	737.0232	0.0959	0.0169
21	123.3000	0.4500	4377.7800	790.4814	0.1005	0.0181
22	123.3125	0.4625	4579.2450	846.4581	0.1051	0.0194
23	123.3250	0.4750	4780.7100	904.9533	0.1098	0.0208
24	123.3375	0.4875	4982.1750	965.9670	0.1144	0.0222
25	123.3500	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	127.8900	5.0400	5183.6400	24563.2247	0.1190	0.5639

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| Variable storage data for node | B-2
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	126.2500	0.0000	4.3560	0.0000	0.0001	0.0000
2	126.2750	0.0250	150.8265	1.5068	0.0035	0.0000
3	126.3000	0.0500	297.2970	7.0058	0.0068	0.0002
4	126.3250	0.0750	443.7675	16.2082	0.0102	0.0004
5	126.3500	0.1000	590.2380	29.0898	0.0135	0.0007
6	126.3750	0.1250	736.7085	45.6428	0.0169	0.0010
7	126.4000	0.1500	883.1790	65.8638	0.0203	0.0015
8	126.4250	0.1750	1029.6495	89.7507	0.0236	0.0021
9	126.4500	0.2000	1176.1200	117.3026	0.0270	0.0027
10	126.4750	0.2250	1475.5950	150.3783	0.0339	0.0035
11	126.5000	0.2500	1775.0700	190.9540	0.0408	0.0044
12	126.5250	0.2750	2074.5450	239.0256	0.0476	0.0055
13	126.5500	0.3000	2374.0200	294.5906	0.0545	0.0068
14	126.5750	0.3250	2673.4950	357.6475	0.0614	0.0082
15	126.6000	0.3500	2972.9700	428.1952	0.0683	0.0098
16	126.6250	0.3750	3272.4450	506.2330	0.0751	0.0116
17	126.6500	0.4000	3571.9200	591.7602	0.0820	0.0136
18	126.6625	0.4125	3773.3850	637.6626	0.0866	0.0146
19	126.6750	0.4250	3974.8500	686.0836	0.0912	0.0158
20	126.6875	0.4375	4176.3150	737.0232	0.0959	0.0169
21	126.7000	0.4500	4377.7800	790.4814	0.1005	0.0181
22	126.7125	0.4625	4579.2450	846.4581	0.1051	0.0194
23	126.7250	0.4750	4780.7100	904.9533	0.1098	0.0208
24	126.7375	0.4875	4982.1750	965.9670	0.1144	0.0222
25	126.7500	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	126.7625	0.5125	5439.5550	1095.8877	0.1249	0.0252
27	126.7750	0.5250	5695.4700	1165.4755	0.1308	0.0268
28	126.7875	0.5375	5951.3850	1238.2625	0.1366	0.0284
29	126.8000	0.5500	6207.3000	1314.2486	0.1425	0.0302
30	126.8125	0.5625	6463.2150	1393.4340	0.1484	0.0320
31	126.8250	0.5750	6719.1300	1475.8184	0.1542	0.0339
32	126.8375	0.5875	6975.0450	1561.4020	0.1601	0.0358
33	126.8500	0.6000	7230.9600	1650.1848	0.1660	0.0379
34	126.8750	0.6250	7824.4650	1838.3288	0.1796	0.0422
35	126.9000	0.6500	8417.9700	2041.3141	0.1932	0.0469
36	126.9250	0.6750	9011.4750	2259.1400	0.2069	0.0519
37	126.9500	0.7000	9604.9800	2491.8063	0.2205	0.0572
38	126.9750	0.7250	10198.4850	2739.3125	0.2341	0.0629
39	127.0000	0.7500	10791.9900	3001.6585	0.2478	0.0689
40	127.0250	0.7750	11385.4950	3278.8440	0.2614	0.0753
41	127.0500	0.8000	11979.0000	3570.8687	0.2750	0.0820
42	129.7500	3.5000	11979.0000	35914.1687	0.2750	0.8245

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| Variable storage data for node | B-20
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	120.3200	0.0000	4.3560	0.0000	0.0001	0.0000
2	120.3450	0.0250	150.8265	1.5068	0.0035	0.0000
3	120.3700	0.0500	297.2970	7.0058	0.0068	0.0002
4	120.3950	0.0750	443.7675	16.2082	0.0102	0.0004
5	120.4200	0.1000	590.2380	29.0898	0.0135	0.0007
6	120.4450	0.1250	736.7085	45.6428	0.0169	0.0010
7	120.4700	0.1500	883.1790	65.8638	0.0203	0.0015
8	120.4950	0.1750	1029.6495	89.7507	0.0236	0.0021
9	120.5200	0.2000	1176.1200	117.3026	0.0270	0.0027
10	120.5450	0.2250	1475.5950	150.3783	0.0339	0.0035
11	120.5700	0.2500	1775.0700	190.9540	0.0408	0.0044
12	120.5950	0.2750	2074.5450	239.0256	0.0476	0.0055
13	120.6200	0.3000	2374.0200	294.5906	0.0545	0.0068
14	120.6450	0.3250	2673.4950	357.6475	0.0614	0.0082
15	120.6700	0.3500	2972.9700	428.1952	0.0683	0.0098
16	120.6950	0.3750	3272.4450	506.2330	0.0751	0.0116
17	120.7200	0.4000	3571.9200	591.7602	0.0820	0.0136
18	120.7325	0.4125	3773.3850	637.6626	0.0866	0.0146
19	120.7450	0.4250	3974.8500	686.0836	0.0912	0.0158
20	120.7575	0.4375	4176.3150	737.0232	0.0959	0.0169
21	120.7700	0.4500	4377.7800	790.4814	0.1005	0.0181
22	120.7825	0.4625	4579.2450	846.4581	0.1051	0.0194
23	120.7950	0.4750	4780.7100	904.9533	0.1098	0.0208
24	120.8075	0.4875	4982.1750	965.9670	0.1144	0.0222
25	120.8200	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	120.8325	0.5125	5439.5550	1095.8877	0.1249	0.0252
27	120.8450	0.5250	5695.4700	1165.4755	0.1308	0.0268
28	120.8575	0.5375	5951.3850	1238.2625	0.1366	0.0284
29	120.8700	0.5500	6207.3000	1314.2486	0.1425	0.0302
30	120.8825	0.5625	6463.2150	1393.4340	0.1484	0.0320
31	120.8950	0.5750	6719.1300	1475.8184	0.1542	0.0339
32	120.9075	0.5875	6975.0450	1561.4020	0.1601	0.0358
33	120.9200	0.6000	7230.9600	1650.1848	0.1660	0.0379
34	120.9450	0.6250	7824.4650	1838.3288	0.1796	0.0422
35	120.9700	0.6500	8417.9700	2041.3141	0.1932	0.0469
36	120.9950	0.6750	9011.4750	2259.1400	0.2069	0.0519
37	121.0200	0.7000	9604.9800	2491.8063	0.2205	0.0572
38	121.0450	0.7250	10198.4850	2739.3125	0.2341	0.0629
39	121.0700	0.7500	10791.9900	3001.6585	0.2478	0.0689
40	121.0950	0.7750	11385.4950	3278.8440	0.2614	0.0753
41	121.1200	0.8000	11979.0000	3570.8687	0.2750	0.0820
42	126.3600	6.0400	11979.0000	66340.8287	0.2750	1.5230

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| Variable storage data for node | B-24
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft

Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	118.1600	0.0000	4.3560	0.0000	0.0001	0.0000
2	118.1850	0.0250	150.8265	1.5068	0.0035	0.0000
3	118.2100	0.0500	297.2970	7.0058	0.0068	0.0002
4	118.2350	0.0750	443.7675	16.2082	0.0102	0.0004
5	118.2600	0.1000	590.2380	29.0898	0.0135	0.0007
6	118.2850	0.1250	736.7085	45.6428	0.0169	0.0010
7	118.3100	0.1500	883.1790	65.8638	0.0203	0.0015
8	118.3350	0.1750	1029.6495	89.7507	0.0236	0.0021
9	118.3600	0.2000	1176.1200	117.3026	0.0270	0.0027
10	118.3850	0.2250	1475.5950	150.3783	0.0339	0.0035
11	118.4100	0.2500	1775.0700	190.9540	0.0408	0.0044
12	118.4350	0.2750	2074.5450	239.0256	0.0476	0.0055
13	118.4600	0.3000	2374.0200	294.5906	0.0545	0.0068
14	118.4850	0.3250	2673.4950	357.6475	0.0614	0.0082
15	118.5100	0.3500	2972.9700	428.1952	0.0683	0.0098
16	118.5350	0.3750	3272.4450	506.2330	0.0751	0.0116
17	118.5600	0.4000	3571.9200	591.7602	0.0820	0.0136
18	118.5725	0.4125	3773.3850	637.6626	0.0866	0.0146
19	118.5850	0.4250	3974.8500	686.0836	0.0912	0.0158
20	118.5975	0.4375	4176.3150	737.0232	0.0959	0.0169
21	118.6100	0.4500	4377.7800	790.4814	0.1005	0.0181
22	118.6225	0.4625	4579.2450	846.4581	0.1051	0.0194
23	118.6350	0.4750	4780.7100	904.9533	0.1098	0.0208
24	118.6475	0.4875	4982.1750	965.9670	0.1144	0.0222
25	118.6600	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	118.6725	0.5125	5439.5550	1095.8877	0.1249	0.0252
27	118.6850	0.5250	5695.4700	1165.4755	0.1308	0.0268
28	118.6975	0.5375	5951.3850	1238.2625	0.1366	0.0284
29	118.7100	0.5500	6207.3000	1314.2486	0.1425	0.0302
30	118.7225	0.5625	6463.2150	1393.4340	0.1484	0.0320
31	118.7350	0.5750	6719.1300	1475.8184	0.1542	0.0339
32	118.7475	0.5875	6975.0450	1561.4020	0.1601	0.0358
33	118.7600	0.6000	7230.9600	1650.1848	0.1660	0.0379
34	118.7850	0.6250	7824.4650	1838.3288	0.1796	0.0422
35	118.8100	0.6500	8417.9700	2041.3141	0.1932	0.0469
36	118.8350	0.6750	9011.4750	2259.1400	0.2069	0.0519
37	118.8600	0.7000	9604.9800	2491.8063	0.2205	0.0572
38	118.8850	0.7250	10198.4850	2739.3125	0.2341	0.0629
39	118.9100	0.7500	10791.9900	3001.6585	0.2478	0.0689
40	118.9350	0.7750	11385.4950	3278.8440	0.2614	0.0753
41	118.9600	0.8000	11979.0000	3570.8687	0.2750	0.0820
42	126.1100	7.9500	11979.0000	89220.7187	0.2750	2.0482

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| Variable storage data for node | B-27
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	117.8300	0.0000	4.3560	0.0000	0.0001	0.0000
2	117.8550	0.0250	150.8265	1.5068	0.0035	0.0000
3	117.8800	0.0500	297.2970	7.0058	0.0068	0.0002
4	117.9050	0.0750	443.7675	16.2082	0.0102	0.0004
5	117.9300	0.1000	590.2380	29.0898	0.0135	0.0007
6	117.9550	0.1250	736.7085	45.6428	0.0169	0.0010
7	117.9800	0.1500	883.1790	65.8638	0.0203	0.0015
8	118.0050	0.1750	1029.6495	89.7507	0.0236	0.0021
9	118.0300	0.2000	1176.1200	117.3026	0.0270	0.0027
10	118.0550	0.2250	1475.5950	150.3783	0.0339	0.0035
11	118.0800	0.2500	1775.0700	190.9540	0.0408	0.0044
12	118.1050	0.2750	2074.5450	239.0256	0.0476	0.0055
13	118.1300	0.3000	2374.0200	294.5906	0.0545	0.0068
14	118.1550	0.3250	2673.4950	357.6475	0.0614	0.0082
15	118.1800	0.3500	2972.9700	428.1952	0.0683	0.0098
16	118.2050	0.3750	3272.4450	506.2330	0.0751	0.0116
17	118.2300	0.4000	3571.9200	591.7602	0.0820	0.0136
18	118.2425	0.4125	3773.3850	637.6626	0.0866	0.0146
19	118.2550	0.4250	3974.8500	686.0836	0.0912	0.0158
20	118.2675	0.4375	4176.3150	737.0232	0.0959	0.0169
21	118.2800	0.4500	4377.7800	790.4814	0.1005	0.0181
22	118.2925	0.4625	4579.2450	846.4581	0.1051	0.0194
23	118.3050	0.4750	4780.7100	904.9533	0.1098	0.0208
24	118.3175	0.4875	4982.1750	965.9670	0.1144	0.0222
25	118.3300	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	118.3425	0.5125	5439.5550	1095.8877	0.1249	0.0252
27	118.3550	0.5250	5695.4700	1165.4755	0.1308	0.0268
28	118.3675	0.5375	5951.3850	1238.2625	0.1366	0.0284
29	118.3800	0.5500	6207.3000	1314.2486	0.1425	0.0302
30	118.3925	0.5625	6463.2150	1393.4340	0.1484	0.0320
31	118.4050	0.5750	6719.1300	1475.8184	0.1542	0.0339
32	118.4175	0.5875	6975.0450	1561.4020	0.1601	0.0358
33	118.4300	0.6000	7230.9600	1650.1848	0.1660	0.0379
34	118.4550	0.6250	7824.4650	1838.3288	0.1796	0.0422
35	118.4800	0.6500	8417.9700	2041.3141	0.1932	0.0469
36	118.5050	0.6750	9011.4750	2259.1400	0.2069	0.0519
37	118.5300	0.7000	9604.9800	2491.8063	0.2205	0.0572
38	118.5550	0.7250	10198.4850	2739.3125	0.2341	0.0629
39	118.5800	0.7500	10791.9900	3001.6585	0.2478	0.0689
40	118.6050	0.7750	11385.4950	3278.8440	0.2614	0.0753
41	118.6300	0.8000	11979.0000	3570.8687	0.2750	0.0820
42	126.6800	8.8500	11979.0000	100001.8187	0.2750	2.2957

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| Variable storage data for node | B-29
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	117.5300	0.0000	4.3560	0.0000	0.0001	0.0000
2	117.5550	0.0250	150.8265	1.5068	0.0035	0.0000
3	117.5800	0.0500	297.2970	7.0058	0.0068	0.0002
4	117.6050	0.0750	443.7675	16.2082	0.0102	0.0004
5	117.6300	0.1000	590.2380	29.0898	0.0135	0.0007
6	117.6550	0.1250	736.7085	45.6428	0.0169	0.0010
7	117.6800	0.1500	883.1790	65.8638	0.0203	0.0015
8	117.7050	0.1750	1029.6495	89.7507	0.0236	0.0021
9	117.7300	0.2000	1176.1200	117.3026	0.0270	0.0027
10	117.7550	0.2250	1475.5950	150.3783	0.0339	0.0035
11	117.7800	0.2500	1775.0700	190.9540	0.0408	0.0044
12	117.8050	0.2750	2074.5450	239.0256	0.0476	0.0055
13	117.8300	0.3000	2374.0200	294.5906	0.0545	0.0068
14	117.8550	0.3250	2673.4950	357.6475	0.0614	0.0082
15	117.8800	0.3500	2972.9700	428.1952	0.0683	0.0098
16	117.9050	0.3750	3272.4450	506.2330	0.0751	0.0116
17	117.9300	0.4000	3571.9200	591.7602	0.0820	0.0136
18	117.9425	0.4125	3773.3850	637.6626	0.0866	0.0146
19	117.9550	0.4250	3974.8500	686.0836	0.0912	0.0158
20	117.9675	0.4375	4176.3150	737.0232	0.0959	0.0169
21	117.9800	0.4500	4377.7800	790.4814	0.1005	0.0181
22	117.9925	0.4625	4579.2450	846.4581	0.1051	0.0194
23	118.0050	0.4750	4780.7100	904.9533	0.1098	0.0208
24	118.0175	0.4875	4982.1750	965.9670	0.1144	0.0222
25	118.0300	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	118.0425	0.5125	5439.5550	1095.8877	0.1249	0.0252
27	118.0550	0.5250	5695.4700	1165.4755	0.1308	0.0268
28	118.0675	0.5375	5951.3850	1238.2625	0.1366	0.0284
29	118.0800	0.5500	6207.3000	1314.2486	0.1425	0.0302

30	118.0925	0.5625	6463.2150	1393.4340	0.1484	0.0320
31	118.1050	0.5750	6719.1300	1475.8184	0.1542	0.0339
32	118.1175	0.5875	6975.0450	1561.4020	0.1601	0.0358
33	118.1300	0.6000	7230.9600	1650.1848	0.1660	0.0379
34	118.1550	0.6250	7824.4650	1838.3288	0.1796	0.0422
35	118.1800	0.6500	8417.9700	2041.3141	0.1932	0.0469
36	118.2050	0.6750	9011.4750	2259.1400	0.2069	0.0519
37	118.2300	0.7000	9604.9800	2491.8063	0.2205	0.0572
38	118.2550	0.7250	10198.4850	2739.3125	0.2341	0.0629
39	118.2800	0.7500	10791.9900	3001.6585	0.2478	0.0689
40	118.3050	0.7750	11385.4950	3278.8440	0.2614	0.0753
41	118.3300	0.8000	11979.0000	3570.8687	0.2750	0.0820
42	129.7900	12.2600	11979.0000	140850.2087	0.2750	3.2335

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| Variable storage data for node | B-3
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	123.8000	0.0000	4.3560	0.0000	0.0001	0.0000
2	123.9250	0.1250	657.2115	29.7947	0.0151	0.0007
3	124.0500	0.2500	1310.0670	150.4270	0.0301	0.0035
4	124.1750	0.3750	1962.9225	353.6186	0.0451	0.0081
5	124.3000	0.5000	2615.7780	638.8127	0.0600	0.0147
6	124.4250	0.6250	3268.6335	1005.8316	0.0750	0.0231
7	124.5500	0.7500	3921.4890	1454.5955	0.0900	0.0334
8	124.6750	0.8750	4574.3445	1985.0617	0.1050	0.0456
9	124.8000	1.0000	5227.2000	2597.2048	0.1200	0.0596
10	127.3000	3.5000	5227.2000	15665.2048	0.1200	0.3596

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| Variable storage data for node | B-30
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	117.9300	0.0000	4.3560	0.0000	0.0001	0.0000
2	117.9550	0.0250	150.8265	1.5068	0.0035	0.0000
3	117.9800	0.0500	297.2970	7.0058	0.0068	0.0002
4	118.0050	0.0750	443.7675	16.2082	0.0102	0.0004
5	118.0300	0.1000	590.2380	29.0898	0.0135	0.0007
6	118.0550	0.1250	736.7085	45.6428	0.0169	0.0010
7	118.0800	0.1500	883.1790	65.8638	0.0203	0.0015
8	118.1050	0.1750	1029.6495	89.7507	0.0236	0.0021
9	118.1300	0.2000	1176.1200	117.3026	0.0270	0.0027
10	118.1550	0.2250	1475.5950	150.3783	0.0339	0.0035
11	118.1800	0.2500	1775.0700	190.9540	0.0408	0.0044
12	118.2050	0.2750	2074.5450	239.0256	0.0476	0.0055
13	118.2300	0.3000	2374.0200	294.5906	0.0545	0.0068
14	118.2550	0.3250	2673.4950	357.6475	0.0614	0.0082
15	118.2800	0.3500	2972.9700	428.1952	0.0683	0.0098
16	118.3050	0.3750	3272.4450	506.2330	0.0751	0.0116
17	118.3300	0.4000	3571.9200	591.7602	0.0820	0.0136
18	118.3425	0.4125	3773.3850	637.6626	0.0866	0.0146
19	118.3550	0.4250	3974.8500	686.0836	0.0912	0.0158
20	118.3675	0.4375	4176.3150	737.0232	0.0959	0.0169
21	118.3800	0.4500	4377.7800	790.4814	0.1005	0.0181
22	118.3925	0.4625	4579.2450	846.4581	0.1051	0.0194
23	118.4050	0.4750	4780.7100	904.9533	0.1098	0.0208
24	118.4175	0.4875	4982.1750	965.9670	0.1144	0.0222
25	118.4300	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	118.4425	0.5125	5439.5550	1095.8877	0.1249	0.0252
27	118.4550	0.5250	5695.4700	1165.4755	0.1308	0.0268
28	118.4675	0.5375	5951.3850	1238.2625	0.1366	0.0284
29	118.4800	0.5500	6207.3000	1314.2486	0.1425	0.0302
30	118.4925	0.5625	6463.2150	1393.4340	0.1484	0.0320
31	118.5050	0.5750	6719.1300	1475.8184	0.1542	0.0339
32	118.5175	0.5875	6975.0450	1561.4020	0.1601	0.0358
33	118.5300	0.6000	7230.9600	1650.1848	0.1660	0.0379
34	118.5550	0.6250	7824.4650	1838.3288	0.1796	0.0422
35	118.5800	0.6500	8417.9700	2041.3141	0.1932	0.0469
36	118.6050	0.6750	9011.4750	2259.1400	0.2069	0.0519
37	118.6300	0.7000	9604.9800	2491.8063	0.2205	0.0572
38	118.6550	0.7250	10198.4850	2739.3125	0.2341	0.0629
39	118.6800	0.7500	10791.9900	3001.6585	0.2478	0.0689
40	118.7050	0.7750	11385.4950	3278.8440	0.2614	0.0753
41	118.7300	0.8000	11979.0000	3570.8687	0.2750	0.0820
42	129.7900	11.8600	11979.0000	136058.6087	0.2750	3.1235

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| Variable storage data for node | B-32
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	118.3800	0.0000	4.3560	0.0000	0.0001	0.0000
2	118.4050	0.0250	150.8265	1.5068	0.0035	0.0000
3	118.4300	0.0500	297.2970	7.0058	0.0068	0.0002
4	118.4550	0.0750	443.7675	16.2082	0.0102	0.0004
5	118.4800	0.1000	590.2380	29.0898	0.0135	0.0007
6	118.5050	0.1250	736.7085	45.6428	0.0169	0.0010
7	118.5300	0.1500	883.1790	65.8638	0.0203	0.0015
8	118.5550	0.1750	1029.6495	89.7507	0.0236	0.0021
9	118.5800	0.2000	1176.1200	117.3026	0.0270	0.0027
10	118.6050	0.2250	1475.5950	150.3783	0.0339	0.0035
11	118.6300	0.2500	1775.0700	190.9540	0.0408	0.0044
12	118.6550	0.2750	2074.5450	239.0256	0.0476	0.0055
13	118.6800	0.3000	2374.0200	294.5906	0.0545	0.0068
14	118.7050	0.3250	2673.4950	357.6475	0.0614	0.0082
15	118.7300	0.3500	2972.9700	428.1952	0.0683	0.0098
16	118.7550	0.3750	3272.4450	506.2330	0.0751	0.0116
17	118.7800	0.4000	3571.9200	591.7602	0.0820	0.0136
18	118.7925	0.4125	3773.3850	637.6626	0.0866	0.0146
19	118.8050	0.4250	3974.8500	686.0836	0.0912	0.0158
20	118.8175	0.4375	4176.3150	737.0232	0.0959	0.0169
21	118.8300	0.4500	4377.7800	790.4814	0.1005	0.0181
22	118.8425	0.4625	4579.2450	846.4581	0.1051	0.0194
23	118.8550	0.4750	4780.7100	904.9533	0.1098	0.0208
24	118.8675	0.4875	4982.1750	965.9670	0.1144	0.0222
25	118.8800	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	118.8925	0.5125	5439.5550	1095.8877	0.1249	0.0252
27	118.9050	0.5250	5695.4700	1165.4755	0.1308	0.0268
28	118.9175	0.5375	5951.3850	1238.2625	0.1366	0.0284
29	118.9300	0.5500	6207.3000	1314.2486	0.1425	0.0302
30	118.9425	0.5625	6463.2150	1393.4340	0.1484	0.0320
31	118.9550	0.5750	6719.1300	1475.8184	0.1542	0.0339
32	118.9675	0.5875	6975.0450	1561.4020	0.1601	0.0358
33	118.9800	0.6000	7230.9600	1650.1848	0.1660	0.0379
34	119.0050	0.6250	7824.4650	1838.3288	0.1796	0.0422
35	119.0300	0.6500	8417.9700	2041.3141	0.1932	0.0469
36	119.0550	0.6750	9011.4750	2259.1400	0.2069	0.0519
37	119.0800	0.7000	9604.9800	2491.8063	0.2205	0.0572
38	119.1050	0.7250	10198.4850	2739.3125	0.2341	0.0629
39	119.1300	0.7500	10791.9900	3001.6585	0.2478	0.0689
40	119.1550	0.7750	11385.4950	3278.8440	0.2614	0.0753
41	119.1800	0.8000	11979.0000	3570.8687	0.2750	0.0820
42	127.2800	8.9000	11979.0000	100600.7687	0.2750	2.3095

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| Variable storage data for node | B-36
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	119.5200	0.0000	4.3560	0.0000	0.0001	0.0000
2	119.5450	0.0250	150.8265	1.5068	0.0035	0.0000
3	119.5700	0.0500	297.2970	7.0058	0.0068	0.0002
4	119.5950	0.0750	443.7675	16.2082	0.0102	0.0004
5	119.6200	0.1000	590.2380	29.0898	0.0135	0.0007
6	119.6450	0.1250	736.7085	45.6428	0.0169	0.0010
7	119.6700	0.1500	883.1790	65.8638	0.0203	0.0015
8	119.6950	0.1750	1029.6495	89.7507	0.0236	0.0021
9	119.7200	0.2000	1176.1200	117.3026	0.0270	0.0027
10	119.7450	0.2250	1475.5950	150.3783	0.0339	0.0035
11	119.7700	0.2500	1775.0700	190.9540	0.0408	0.0044
12	119.7950	0.2750	2074.5450	239.0256	0.0476	0.0055
13	119.8200	0.3000	2374.0200	294.5906	0.0545	0.0068
14	119.8450	0.3250	2673.4950	357.6475	0.0614	0.0082
15	119.8700	0.3500	2972.9700	428.1952	0.0683	0.0098
16	119.8950	0.3750	3272.4450	506.2330	0.0751	0.0116
17	119.9200	0.4000	3571.9200	591.7602	0.0820	0.0136
18	119.9325	0.4125	3773.3850	637.6626	0.0866	0.0146
19	119.9450	0.4250	3974.8500	686.0836	0.0912	0.0158
20	119.9575	0.4375	4176.3150	737.0232	0.0959	0.0169
21	119.9700	0.4500	4377.7800	790.4814	0.1005	0.0181
22	119.9825	0.4625	4579.2450	846.4581	0.1051	0.0194
23	119.9950	0.4750	4780.7100	904.9533	0.1098	0.0208
24	120.0075	0.4875	4982.1750	965.9670	0.1144	0.0222
25	120.0200	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	120.0325	0.5125	5439.5550	1095.8877	0.1249	0.0252
27	120.0450	0.5250	5695.4700	1165.4755	0.1308	0.0268
28	120.0575	0.5375	5951.3850	1238.2625	0.1366	0.0284
29	120.0700	0.5500	6207.3000	1314.2486	0.1425	0.0302
30	120.0825	0.5625	6463.2150	1393.4340	0.1484	0.0320
31	120.0950	0.5750	6719.1300	1475.8184	0.1542	0.0339
32	120.1075	0.5875	6975.0450	1561.4020	0.1601	0.0358
33	120.1200	0.6000	7230.9600	1650.1848	0.1660	0.0379
34	120.1450	0.6250	7824.4650	1838.3288	0.1796	0.0422
35	120.1700	0.6500	8417.9700	2041.3141	0.1932	0.0469
36	120.1950	0.6750	9011.4750	2259.1400	0.2069	0.0519
37	120.2200	0.7000	9604.9800	2491.8063	0.2205	0.0572
38	120.2450	0.7250	10198.4850	2739.3125	0.2341	0.0629
39	120.2700	0.7500	10791.9900	3001.6585	0.2478	0.0689
40	120.2950	0.7750	11385.4950	3278.8440	0.2614	0.0753
41	120.3200	0.8000	11979.0000	3570.8687	0.2750	0.0820
42	126.1100	6.5900	11979.0000	72929.2787	0.2750	1.6742

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| Variable storage data for node | B-37
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	119.9100	0.0000	4.3560	0.0000	0.0001	0.0000
2	119.9350	0.0250	150.8265	1.5068	0.0035	0.0000
3	119.9600	0.0500	297.2970	7.0058	0.0068	0.0002
4	119.9850	0.0750	443.7675	16.2082	0.0102	0.0004
5	120.0100	0.1000	590.2380	29.0898	0.0135	0.0007
6	120.0350	0.1250	736.7085	45.6428	0.0169	0.0010
7	120.0600	0.1500	883.1790	65.8638	0.0203	0.0015
8	120.0850	0.1750	1029.6495	89.7507	0.0236	0.0021
9	120.1100	0.2000	1176.1200	117.3026	0.0270	0.0027
10	120.1350	0.2250	1475.5950	150.3783	0.0339	0.0035
11	120.1600	0.2500	1775.0700	190.9540	0.0408	0.0044
12	120.1850	0.2750	2074.5450	239.0256	0.0476	0.0055
13	120.2100	0.3000	2374.0200	294.5906	0.0545	0.0068
14	120.2350	0.3250	2673.4950	357.6475	0.0614	0.0082
15	120.2600	0.3500	2972.9700	428.1952	0.0683	0.0098
16	120.2850	0.3750	3272.4450	506.2330	0.0751	0.0116
17	120.3100	0.4000	3571.9200	591.7602	0.0820	0.0136
18	120.3225	0.4125	3773.3850	637.6626	0.0866	0.0146
19	120.3350	0.4250	3974.8500	686.0836	0.0912	0.0158
20	120.3475	0.4375	4176.3150	737.0232	0.0959	0.0169
21	120.3600	0.4500	4377.7800	790.4814	0.1005	0.0181
22	120.3725	0.4625	4579.2450	846.4581	0.1051	0.0194
23	120.3850	0.4750	4780.7100	904.9533	0.1098	0.0208
24	120.3975	0.4875	4982.1750	965.9670	0.1144	0.0222
25	120.4100	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	120.4225	0.5125	5439.5550	1095.8877	0.1249	0.0252
27	120.4350	0.5250	5695.4700	1165.4755	0.1308	0.0268
28	120.4475	0.5375	5951.3850	1238.2625	0.1366	0.0284
29	120.4600	0.5500	6207.3000	1314.2486	0.1425	0.0302
30	120.4725	0.5625	6463.2150	1393.4340	0.1484	0.0320
31	120.4850	0.5750	6719.1300	1475.8184	0.1542	0.0339
32	120.4975	0.5875	6975.0450	1561.4020	0.1601	0.0358
33	120.5100	0.6000	7230.9600	1650.1848	0.1660	0.0379
34	120.5350	0.6250	7824.4650	1838.3288	0.1796	0.0422
35	120.5600	0.6500	8417.9700	2041.3141	0.1932	0.0469
36	120.5850	0.6750	9011.4750	2259.1400	0.2069	0.0519
37	120.6100	0.7000	9604.9800	2491.8063	0.2205	0.0572
38	120.6350	0.7250	10198.4850	2739.3125	0.2341	0.0629
39	120.6600	0.7500	10791.9900	3001.6585	0.2478	0.0689
40	120.6850	0.7750	11385.4950	3278.8440	0.2614	0.0753
41	120.7100	0.8000	11979.0000	3570.8687	0.2750	0.0820
42	129.5800	9.6700	11979.0000	109824.5987	0.2750	2.5212

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| Variable storage data for node | B-39
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	118.8600	0.0000	4.3560	0.0000	0.0001	0.0000
2	118.8850	0.0250	150.8265	1.5068	0.0035	0.0000
3	118.9100	0.0500	297.2970	7.0058	0.0068	0.0002
4	118.9350	0.0750	443.7675	16.2082	0.0102	0.0004
5	118.9600	0.1000	590.2380	29.0898	0.0135	0.0007
6	118.9850	0.1250	736.7085	45.6428	0.0169	0.0010
7	119.0100	0.1500	883.1790	65.8638	0.0203	0.0015
8	119.0350	0.1750	1029.6495	89.7507	0.0236	0.0021
9	119.0600	0.2000	1176.1200	117.3026	0.0270	0.0027
10	119.0850	0.2250	1475.5950	150.3783	0.0339	0.0035
11	119.1100	0.2500	1775.0700	190.9540	0.0408	0.0044
12	119.1350	0.2750	2074.5450	239.0256	0.0476	0.0055
13	119.1600	0.3000	2374.0200	294.5906	0.0545	0.0068
14	119.1850	0.3250	2673.4950	357.6475	0.0614	0.0082
15	119.2100	0.3500	2972.9700	428.1952	0.0683	0.0098
16	119.2350	0.3750	3272.4450	506.2330	0.0751	0.0116
17	119.2600	0.4000	3571.9200	591.7602	0.0820	0.0136
18	119.2725	0.4125	3773.3850	637.6626	0.0866	0.0146
19	119.2850	0.4250	3974.8500	686.0836	0.0912	0.0158
20	119.2975	0.4375	4176.3150	737.0232	0.0959	0.0169
21	119.3100	0.4500	4377.7800	790.4814	0.1005	0.0181
22	119.3225	0.4625	4579.2450	846.4581	0.1051	0.0194
23	119.3350	0.4750	4780.7100	904.9533	0.1098	0.0208

24	119.3475	0.4875	4982.1750	965.9670	0.1144	0.0222
25	119.3600	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	119.3725	0.5125	5439.5550	1095.8877	0.1249	0.0252
27	119.3850	0.5250	5695.4700	1165.4755	0.1308	0.0268
28	119.3975	0.5375	5951.3850	1238.2625	0.1366	0.0284
29	119.4100	0.5500	6207.3000	1314.2486	0.1425	0.0302
30	119.4225	0.5625	6463.2150	1393.4340	0.1484	0.0320
31	119.4350	0.5750	6719.1300	1475.8184	0.1542	0.0339
32	119.4475	0.5875	6975.0450	1561.4020	0.1601	0.0358
33	119.4600	0.6000	7230.9600	1650.1848	0.1660	0.0379
34	119.4850	0.6250	7829.9100	1838.3960	0.1798	0.0422
35	119.5100	0.6500	8428.8600	2041.5847	0.1935	0.0469
36	119.5350	0.6750	9027.8100	2259.7502	0.2073	0.0519
37	119.5600	0.7000	9626.7600	2492.8923	0.2210	0.0572
38	119.5850	0.7250	10225.7100	2741.0105	0.2348	0.0629
39	119.6100	0.7500	10824.6600	3004.1046	0.2485	0.0690
40	119.6350	0.7750	11423.6100	3282.1744	0.2623	0.0753
41	119.6600	0.8000	12022.5600	3575.2196	0.2760	0.0821
42	128.0000	9.1400	12022.5600	103843.3700	0.2760	2.3839

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| Variable storage data for node | B-4
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	124.7500	0.0000	4.3560	0.0000	0.0001	0.0000
2	124.7750	0.0250	150.8265	1.5068	0.0035	0.0000
3	124.8000	0.0500	297.2970	7.0058	0.0068	0.0002
4	124.8250	0.0750	443.7675	16.2082	0.0102	0.0004
5	124.8500	0.1000	590.2380	29.0898	0.0135	0.0007
6	124.8750	0.1250	736.7085	45.6428	0.0169	0.0010
7	124.9000	0.1500	883.1790	65.8638	0.0203	0.0015
8	124.9250	0.1750	1029.6495	89.7507	0.0236	0.0021
9	124.9500	0.2000	1176.1200	117.3026	0.0270	0.0027
10	124.9750	0.2250	1475.5950	150.3783	0.0339	0.0035
11	125.0000	0.2500	1775.0700	190.9540	0.0408	0.0044
12	125.0250	0.2750	2074.5450	239.0256	0.0476	0.0055
13	125.0500	0.3000	2374.0200	294.5906	0.0545	0.0068
14	125.0750	0.3250	2673.4950	357.6475	0.0614	0.0082
15	125.1000	0.3500	2972.9700	428.1952	0.0683	0.0098
16	125.1250	0.3750	3272.4450	506.2330	0.0751	0.0116
17	125.1500	0.4000	3571.9200	591.7602	0.0820	0.0136
18	125.1625	0.4125	3773.3850	637.6626	0.0866	0.0146
19	125.1750	0.4250	3974.8500	686.0836	0.0912	0.0158
20	125.1875	0.4375	4176.3150	737.0232	0.0959	0.0169
21	125.2000	0.4500	4377.7800	790.4814	0.1005	0.0181
22	125.2125	0.4625	4579.2450	846.4581	0.1051	0.0194
23	125.2250	0.4750	4780.7100	904.9533	0.1098	0.0208
24	125.2375	0.4875	4982.1750	965.9670	0.1144	0.0222
25	125.2500	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	125.2625	0.5125	5439.5550	1095.8877	0.1249	0.0252
27	125.2750	0.5250	5695.4700	1165.4755	0.1308	0.0268
28	125.2875	0.5375	5951.3850	1238.2625	0.1366	0.0284
29	125.3000	0.5500	6207.3000	1314.2486	0.1425	0.0302
30	125.3125	0.5625	6463.2150	1393.4340	0.1484	0.0320
31	125.3250	0.5750	6719.1300	1475.8184	0.1542	0.0339
32	125.3375	0.5875	6975.0450	1561.4020	0.1601	0.0358
33	125.3500	0.6000	7230.9600	1650.1848	0.1660	0.0379
34	125.3750	0.6250	7824.4650	1838.3288	0.1796	0.0422
35	125.4000	0.6500	8417.9700	2041.3141	0.1932	0.0469
36	125.4250	0.6750	9011.4750	2259.1400	0.2069	0.0519
37	125.4500	0.7000	9604.9800	2491.8063	0.2205	0.0572
38	125.4750	0.7250	10198.4850	2739.3125	0.2341	0.0629
39	125.5000	0.7500	10791.9900	3001.6585	0.2478	0.0689
40	125.5250	0.7750	11385.4950	3278.8440	0.2614	0.0753
41	125.5500	0.8000	11979.0000	3570.8687	0.2750	0.0820
42	129.3900	4.6400	11979.0000	49570.2287	0.2750	1.1380

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| Variable storage data for node | B-42
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	117.8100	0.0000	4.3560	0.0000	0.0001	0.0000
2	117.8350	0.0250	150.8265	1.5068	0.0035	0.0000
3	117.8600	0.0500	297.2970	7.0058	0.0068	0.0002
4	117.8850	0.0750	443.7675	16.2082	0.0102	0.0004
5	117.9100	0.1000	590.2380	29.0898	0.0135	0.0007
6	117.9350	0.1250	736.7085	45.6428	0.0169	0.0010
7	117.9600	0.1500	883.1790	65.8638	0.0203	0.0015
8	117.9850	0.1750	1029.6495	89.7507	0.0236	0.0021
9	118.0100	0.2000	1176.1200	117.3026	0.0270	0.0027
10	118.0350	0.2250	1475.5950	150.3783	0.0339	0.0035
11	118.0600	0.2500	1775.0700	190.9540	0.0408	0.0044
12	118.0850	0.2750	2074.5450	239.0256	0.0476	0.0055
13	118.1100	0.3000	2374.0200	294.5906	0.0545	0.0068
14	118.1350	0.3250	2673.4950	357.6475	0.0614	0.0082
15	118.1600	0.3500	2972.9700	428.1952	0.0683	0.0098
16	118.1850	0.3750	3272.4450	506.2330	0.0751	0.0116
17	118.2100	0.4000	3571.9200	591.7602	0.0820	0.0136
18	118.2225	0.4125	3773.3850	637.6626	0.0866	0.0146
19	118.2350	0.4250	3974.8500	686.0836	0.0912	0.0158
20	118.2475	0.4375	4176.3150	737.0232	0.0959	0.0169
21	118.2600	0.4500	4377.7800	790.4814	0.1005	0.0181
22	118.2725	0.4625	4579.2450	846.4581	0.1051	0.0194
23	118.2850	0.4750	4780.7100	904.9533	0.1098	0.0208
24	118.2975	0.4875	4982.1750	965.9670	0.1144	0.0222
25	118.3100	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	118.3225	0.5125	5439.5550	1095.8877	0.1249	0.0252
27	118.3350	0.5250	5695.4700	1165.4755	0.1308	0.0268
28	118.3475	0.5375	5951.3850	1238.2625	0.1366	0.0284
29	118.3600	0.5500	6207.3000	1314.2486	0.1425	0.0302
30	118.3725	0.5625	6463.2150	1393.4340	0.1484	0.0320
31	118.3850	0.5750	6719.1300	1475.8184	0.1542	0.0339
32	118.3975	0.5875	6975.0450	1561.4020	0.1601	0.0358
33	118.4100	0.6000	7230.9600	1650.1848	0.1660	0.0379
34	118.4350	0.6250	7824.4650	1838.3288	0.1796	0.0422
35	118.4600	0.6500	8417.9700	2041.3141	0.1932	0.0469
36	118.4850	0.6750	9011.4750	2259.1400	0.2069	0.0519
37	118.5100	0.7000	9604.9800	2491.8063	0.2205	0.0572
38	118.5350	0.7250	10198.4850	2739.3125	0.2341	0.0629
39	118.5600	0.7500	10791.9900	3001.6585	0.2478	0.0689
40	118.5850	0.7750	11385.4950	3278.8440	0.2614	0.0753
41	118.6100	0.8000	11979.0000	3570.8687	0.2750	0.0820
42	127.4800	9.6700	11979.0000	109824.5987	0.2750	2.5212

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| Variable storage data for node | B-43
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	122.5000	0.0000	4.3560	0.0000	0.0001	0.0000
2	122.6250	0.1250	657.2115	29.7947	0.0151	0.0007
3	122.7500	0.2500	1310.0670	150.4270	0.0301	0.0035
4	122.8750	0.3750	1962.9225	353.6186	0.0451	0.0081

5	123.0000	0.5000	2615.7780	638.8127	0.0600	0.0147
6	123.1250	0.6250	3268.6335	1005.8316	0.0750	0.0231
7	123.2500	0.7500	3921.4890	1454.5955	0.0900	0.0334
8	123.3750	0.8750	4574.3445	1985.0617	0.1050	0.0456
9	123.5000	1.0000	5227.2000	2597.2048	0.1200	0.0596
10	126.5000	4.0000	5227.2000	18278.8048	0.1200	0.4196

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| Variable storage data for node | B-45
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	117.1100	0.0000	4.3560	0.0000	0.0001	0.0000
2	117.1350	0.0250	150.8265	1.5068	0.0035	0.0000
3	117.1600	0.0500	297.2970	7.0058	0.0068	0.0002
4	117.1850	0.0750	443.7675	16.2082	0.0102	0.0004
5	117.2100	0.1000	590.2380	29.0898	0.0135	0.0007
6	117.2350	0.1250	736.7085	45.6428	0.0169	0.0010
7	117.2600	0.1500	883.1790	65.8638	0.0203	0.0015
8	117.2850	0.1750	1029.6495	89.7507	0.0236	0.0021
9	117.3100	0.2000	1176.1200	117.3026	0.0270	0.0027
10	117.3350	0.2250	1475.5950	150.3783	0.0339	0.0035
11	117.3600	0.2500	1775.0700	190.9540	0.0408	0.0044
12	117.3850	0.2750	2074.5450	239.0256	0.0476	0.0055
13	117.4100	0.3000	2374.0200	294.5906	0.0545	0.0068
14	117.4350	0.3250	2673.4950	357.6475	0.0614	0.0082
15	117.4600	0.3500	2972.9700	428.1952	0.0683	0.0098
16	117.4850	0.3750	3272.4450	506.2330	0.0751	0.0116
17	117.5100	0.4000	3571.9200	591.7602	0.0820	0.0136
18	117.5225	0.4125	3773.3850	637.6626	0.0866	0.0146
19	117.5350	0.4250	3974.8500	686.0836	0.0912	0.0158
20	117.5475	0.4375	4176.3150	737.0232	0.0959	0.0169
21	117.5600	0.4500	4377.7800	790.4814	0.1005	0.0181
22	117.5725	0.4625	4579.2450	846.4581	0.1051	0.0194
23	117.5850	0.4750	4780.7100	904.9533	0.1098	0.0208
24	117.5975	0.4875	4982.1750	965.9670	0.1144	0.0222
25	117.6100	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	117.6225	0.5125	5439.5550	1095.8877	0.1249	0.0252
27	117.6350	0.5250	5695.4700	1165.4755	0.1308	0.0268
28	117.6475	0.5375	5951.3850	1238.2625	0.1366	0.0284
29	117.6600	0.5500	6207.3000	1314.2486	0.1425	0.0302
30	117.6725	0.5625	6463.2150	1393.4340	0.1484	0.0320
31	117.6850	0.5750	6719.1300	1475.8184	0.1542	0.0339
32	117.6975	0.5875	6975.0450	1561.4020	0.1601	0.0358
33	117.7100	0.6000	7230.9600	1650.1848	0.1660	0.0379
34	117.7350	0.6250	7824.4650	1838.3288	0.1796	0.0422
35	117.7600	0.6500	8417.9700	2041.3141	0.1932	0.0469
36	117.7850	0.6750	9011.4750	2259.1400	0.2069	0.0519
37	117.8100	0.7000	9604.9800	2491.8063	0.2205	0.0572
38	117.8350	0.7250	10198.4850	2739.3125	0.2341	0.0629
39	117.8600	0.7500	10791.9900	3001.6585	0.2478	0.0689
40	117.8850	0.7750	11385.4950	3278.8440	0.2614	0.0753
41	117.9100	0.8000	11979.0000	3570.8687	0.2750	0.0820
42	126.1300	9.0200	11979.0000	102038.2487	0.2750	2.3425

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| Variable storage data for node | B-46
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	121.0000	0.0000	4.3560	0.0000	0.0001	0.0000
2	121.1250	0.1250	548.3115	25.0641	0.0126	0.0006
3	121.2500	0.2500	1092.2670	125.6669	0.0251	0.0029
4	121.3750	0.3750	1636.2225	295.0564	0.0376	0.0068
5	121.5000	0.5000	2180.1780	532.7697	0.0501	0.0122
6	121.6250	0.6250	2724.1335	838.6588	0.0625	0.0193
7	121.7500	0.7500	3268.0890	1212.6572	0.0750	0.0278
8	121.8750	0.8750	3812.0445	1654.7296	0.0875	0.0380
9	122.0000	1.0000	4356.0000	2164.8546	0.1000	0.0497
10	125.0000	4.0000	4356.0000	15232.8546	0.1000	0.3497

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| Variable storage data for node | B-55
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	117.9600	0.0000	4.3560	0.0000	0.0001	0.0000
2	117.9850	0.0250	150.8265	1.5068	0.0035	0.0000
3	118.0100	0.0500	297.2970	7.0058	0.0068	0.0002
4	118.0350	0.0750	443.7675	16.2082	0.0102	0.0004
5	118.0600	0.1000	590.2380	29.0898	0.0135	0.0007
6	118.0850	0.1250	736.7085	45.6428	0.0169	0.0010
7	118.1100	0.1500	883.1790	65.8638	0.0203	0.0015
8	118.1350	0.1750	1029.6495	89.7507	0.0236	0.0021
9	118.1600	0.2000	1176.1200	117.3026	0.0270	0.0027
10	118.1850	0.2250	1475.5950	150.3783	0.0339	0.0035
11	118.2100	0.2500	1775.0700	190.9540	0.0408	0.0044
12	118.2350	0.2750	2074.5450	239.0256	0.0476	0.0055
13	118.2600	0.3000	2374.0200	294.5906	0.0545	0.0068
14	118.2850	0.3250	2673.4950	357.6475	0.0614	0.0082
15	118.3100	0.3500	2972.9700	428.1952	0.0683	0.0098
16	118.3350	0.3750	3272.4450	506.2330	0.0751	0.0116
17	118.3600	0.4000	3571.9200	591.7602	0.0820	0.0136
18	118.3725	0.4125	3773.3850	637.6626	0.0866	0.0146
19	118.3850	0.4250	3974.8500	686.0836	0.0912	0.0158
20	118.3975	0.4375	4176.3150	737.0232	0.0959	0.0169
21	118.4100	0.4500	4377.7800	790.4814	0.1005	0.0181
22	118.4225	0.4625	4579.2450	846.4581	0.1051	0.0194
23	118.4350	0.4750	4780.7100	904.9533	0.1098	0.0208
24	118.4475	0.4875	4982.1750	965.9670	0.1144	0.0222
25	118.4600	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	118.4725	0.5125	5439.5550	1095.8877	0.1249	0.0252
27	118.4850	0.5250	5695.4700	1165.4755	0.1308	0.0268
28	118.4975	0.5375	5951.3850	1238.2625	0.1366	0.0284
29	118.5100	0.5500	6207.3000	1314.2486	0.1425	0.0302
30	118.5225	0.5625	6463.2150	1393.4340	0.1484	0.0320
31	118.5350	0.5750	6719.1300	1475.8184	0.1542	0.0339
32	118.5475	0.5875	6975.0450	1561.4020	0.1601	0.0358
33	118.5600	0.6000	7230.9600	1650.1848	0.1660	0.0379
34	118.5850	0.6250	7824.4650	1838.3288	0.1796	0.0422
35	118.6100	0.6500	8417.9700	2041.3141	0.1932	0.0469
36	118.6350	0.6750	9011.4750	2259.1400	0.2069	0.0519
37	118.6600	0.7000	9604.9800	2491.8063	0.2205	0.0572
38	118.6850	0.7250	10198.4850	2739.3125	0.2341	0.0629
39	118.7100	0.7500	10791.9900	3001.6585	0.2478	0.0689
40	118.7350	0.7750	11385.4950	3278.8440	0.2614	0.0753
41	118.7600	0.8000	11979.0000	3570.8687	0.2750	0.0820
42	125.7800	7.8200	11979.0000	87663.4487	0.2750	2.0125

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| Variable storage data for node | B-57
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft

1	118.5500	0.0000	4.3560	0.0000	0.0001	0.0000
2	118.5750	0.0250	150.8265	1.5068	0.0035	0.0000
3	118.6000	0.0500	297.2970	7.0058	0.0068	0.0002
4	118.6250	0.0750	443.7675	16.2082	0.0102	0.0004
5	118.6500	0.1000	590.2380	29.0898	0.0135	0.0007
6	118.6750	0.1250	736.7085	45.6428	0.0169	0.0010
7	118.7000	0.1500	883.1790	65.8638	0.0203	0.0015
8	118.7250	0.1750	1029.6495	89.7507	0.0236	0.0021
9	118.7500	0.2000	1176.1200	117.3026	0.0270	0.0027
10	118.7750	0.2250	1475.5950	150.3783	0.0339	0.0035
11	118.8000	0.2500	1775.0700	190.9540	0.0408	0.0044
12	118.8250	0.2750	2074.5450	239.0256	0.0476	0.0055
13	118.8500	0.3000	2374.0200	294.5906	0.0545	0.0068
14	118.8750	0.3250	2673.4950	357.6475	0.0614	0.0082
15	118.9000	0.3500	2972.9700	428.1952	0.0683	0.0098
16	118.9250	0.3750	3272.4450	506.2330	0.0751	0.0116
17	118.9500	0.4000	3571.9200	591.7602	0.0820	0.0136
18	118.9625	0.4125	3773.3850	637.6626	0.0866	0.0146
19	118.9750	0.4250	3974.8500	686.0836	0.0912	0.0158
20	118.9875	0.4375	4176.3150	737.0232	0.0959	0.0169
21	119.0000	0.4500	4377.7800	790.4814	0.1005	0.0181
22	119.0125	0.4625	4579.2450	846.4581	0.1051	0.0194
23	119.0250	0.4750	4780.7100	904.9533	0.1098	0.0208
24	119.0375	0.4875	4982.1750	965.9670	0.1144	0.0222
25	119.0500	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	119.0625	0.5125	5439.5550	1095.8877	0.1249	0.0252
27	119.0750	0.5250	5695.4700	1165.4755	0.1308	0.0268
28	119.0875	0.5375	5951.3850	1238.2625	0.1366	0.0284
29	119.1000	0.5500	6207.3000	1314.2486	0.1425	0.0302
30	119.1125	0.5625	6463.2150	1393.4340	0.1484	0.0320
31	119.1250	0.5750	6719.1300	1475.8184	0.1542	0.0339
32	119.1375	0.5875	6975.0450	1561.4020	0.1601	0.0358
33	119.1500	0.6000	7230.9600	1650.1848	0.1660	0.0379
34	119.1750	0.6250	7824.4650	1838.3288	0.1796	0.0422
35	119.2000	0.6500	8417.9700	2041.3141	0.1932	0.0469
36	119.2250	0.6750	9011.4750	2259.1400	0.2069	0.0519
37	119.2500	0.7000	9604.9800	2491.8063	0.2205	0.0572
38	119.2750	0.7250	10198.4850	2739.3125	0.2341	0.0629
39	119.3000	0.7500	10791.9900	3001.6585	0.2478	0.0689
40	119.3250	0.7750	11385.4950	3278.8440	0.2614	0.0753
41	119.3500	0.8000	11979.0000	3570.8687	0.2750	0.0820
42	125.8200	7.2700	11979.0000	81074.9987	0.2750	1.8612

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| Variable storage data for node | B-58
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	118.7000	0.0000	43.5600	0.0000	0.0010	0.0000
2	119.4250	0.7250	43.5600	31.5810	0.0010	0.0007
3	120.1500	1.4500	43.5600	63.1620	0.0010	0.0014
4	120.8750	2.1750	43.5600	94.7430	0.0010	0.0022
5	121.6000	2.9000	43.5600	126.3240	0.0010	0.0029
6	122.3250	3.6250	43.5600	157.9050	0.0010	0.0036
7	123.0500	4.3500	43.5600	189.4860	0.0010	0.0043
8	123.7750	5.0750	43.5600	221.0670	0.0010	0.0051
9	124.5000	5.8000	43.5600	252.6480	0.0010	0.0058
10	124.7500	6.0500	2488.3650	491.0777	0.0571	0.0113
11	125.0000	6.3000	4933.1700	1401.5093	0.1133	0.0322
12	125.2500	6.5500	7377.9750	2930.1861	0.1694	0.0673
13	125.5000	6.8000	9822.7800	5073.0042	0.2255	0.1165
14	125.7500	7.0500	12267.5850	7828.6455	0.2816	0.1797
15	126.0000	7.3000	14712.3900	11196.5175	0.3377	0.2570
16	126.2500	7.5500	17157.1950	15176.3026	0.3939	0.3484
17	126.5000	7.8000	19602.0000	19767.8107	0.4500	0.4538
18	126.5625	7.8625	19602.0000	20992.9357	0.4500	0.4819
19	126.6250	7.9250	19602.0000	22218.0607	0.4500	0.5101
20	126.6875	7.9875	19602.0000	23443.1857	0.4500	0.5382
21	126.7500	8.0500	19602.0000	24668.3107	0.4500	0.5663
22	126.8125	8.1125	19602.0000	25893.4357	0.4500	0.5944
23	126.8750	8.1750	19602.0000	27118.5607	0.4500	0.6226
24	126.9375	8.2375	19602.0000	28343.6857	0.4500	0.6507
25	127.0000	8.3000	19602.0000	29568.8107	0.4500	0.6788

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| Variable storage data for node | B-59
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	118.8000	0.0000	4.3560	0.0000	0.0001	0.0000
2	118.9875	0.1875	1528.4115	100.8977	0.0351	0.0023
3	119.1750	0.3750	3052.4670	522.2000	0.0701	0.0120
4	119.3625	0.5625	4576.5225	1232.6121	0.1051	0.0283
5	119.5500	0.7500	6100.5780	2230.1737	0.1401	0.0512
6	119.7375	0.9375	7624.6335	3514.2598	0.1750	0.0807
7	119.9250	1.1250	9148.6890	5084.5906	0.2100	0.1167
8	120.1125	1.3125	10672.7445	6941.0163	0.2450	0.1593
9	120.3000	1.5000	12196.8000	9083.4473	0.2800	0.2085
10	127.0000	8.2000	12196.8000	90802.0073	0.2800	2.0845

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| Variable storage data for node | B-60
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	118.9300	0.0000	4.3560	0.0000	0.0001	0.0000
2	119.0113	0.0813	2018.4615	57.3242	0.0463	0.0013
3	119.0925	0.1625	4032.5670	298.4748	0.0926	0.0069
4	119.1738	0.2438	6046.6725	705.1911	0.1388	0.0162
5	119.2550	0.3250	8060.7780	1276.3493	0.1850	0.0293
6	119.3363	0.4062	10074.8835	2011.5913	0.2313	0.0462
7	119.4175	0.4875	12088.9890	2910.7568	0.2775	0.0668
8	119.4988	0.5687	14103.0945	3973.7600	0.3238	0.0912
9	119.5800	0.6500	16117.2000	5200.5496	0.3700	0.1194
10	119.7488	0.8187	18730.8000	8138.0891	0.4300	0.1868
11	119.9175	0.9875	21344.4000	11517.0346	0.4900	0.2644
12	120.0863	1.1562	23958.0000	15337.3024	0.5500	0.3521
13	120.2550	1.3250	26571.6000	19598.8351	0.6100	0.4499
14	120.4238	1.4937	29185.2000	24301.5913	0.6700	0.5579
15	120.5925	1.6625	31798.8000	29445.5404	0.7300	0.6760
16	120.7613	1.8313	34412.4000	35030.6591	0.7900	0.8042
17	120.9300	2.0000	37026.0000	41056.9290	0.8500	0.9425
18	125.0900	6.1600	37026.0000	195085.0890	0.8500	4.4785

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| Variable storage data for node | B-61
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	119.0000	0.0000	4.3560	0.0000	0.0001	0.0000
2	119.0250	0.0250	1038.3615	9.2498	0.0238	0.0002
3	119.0500	0.0500	2072.3670	47.3969	0.0476	0.0011
4	119.0750	0.0750	3106.3725	111.6966	0.0713	0.0026
5	119.1000	0.1000	4140.3780	201.9721	0.0950	0.0046

6	119.1250	0.1250	5174.3835	318.1667	0.1188	0.0073
7	119.1500	0.1500	6208.3890	460.2553	0.1425	0.0106
8	119.1750	0.1750	7242.3945	628.2242	0.1663	0.0144
9	119.2000	0.2000	8276.4000	822.0655	0.1900	0.0189
10	125.7100	6.7100	8276.4000	54701.4295	0.1900	1.2558

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| Variable storage data for node | B-62
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	119.2400	0.0000	4.3560	0.0000	0.0001	0.0000
2	119.3900	0.1500	1147.2615	61.1155	0.0263	0.0014
3	119.5400	0.3000	2290.1670	314.0335	0.0526	0.0072
4	119.6900	0.4500	3433.0725	740.3946	0.0788	0.0170
5	119.8400	0.6000	4575.9780	1339.0242	0.1050	0.0307
6	119.9900	0.7500	5718.8835	2109.5479	0.1313	0.0484
7	120.1400	0.9000	6861.7890	3051.7977	0.1575	0.0701
8	120.2900	1.0500	8004.6945	4165.6841	0.1838	0.0956
9	120.4400	1.2000	9147.6000	5451.1532	0.2100	0.1251
10	125.1400	5.9000	9147.6000	48444.8732	0.2100	1.1121

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| Variable storage data for node | B-63
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	119.3700	0.0000	4.3560	0.0000	0.0001	0.0000
2	119.3950	0.0250	1147.2615	10.1859	0.0263	0.0002
3	119.4200	0.0500	2290.1670	52.3389	0.0526	0.0012
4	119.4450	0.0750	3433.0725	123.3991	0.0788	0.0028
5	119.4700	0.1000	4575.9780	223.1707	0.1050	0.0051
6	119.4950	0.1250	5718.8835	351.5913	0.1313	0.0081
7	119.5200	0.1500	6861.7890	508.6330	0.1575	0.0117
8	119.5450	0.1750	8004.6945	694.2807	0.1838	0.0159
9	119.5700	0.2000	9147.6000	908.5255	0.2100	0.0209
10	126.0000	6.6300	9147.6000	59727.5935	0.2100	1.3712

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| Variable storage data for node | B-64
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	119.7500	0.0000	4.3560	0.0000	0.0001	0.0000
2	120.0625	0.3125	1964.0115	214.6731	0.0451	0.0049
3	120.3750	0.6250	3923.6670	1117.1387	0.0901	0.0256
4	120.6875	0.9375	5883.3225	2639.1795	0.1351	0.0606
5	121.0000	1.2500	7842.9780	4776.5907	0.1800	0.1097
6	121.3125	1.5625	9802.6335	7528.0324	0.2250	0.1728
7	121.6250	1.8750	11762.2890	10892.9044	0.2700	0.2501
8	121.9375	2.1875	13721.9445	14870.8859	0.3150	0.3414
9	122.2500	2.5000	15681.6000	19461.7847	0.3600	0.4468
10	125.5000	5.7500	15681.6000	70426.9847	0.3600	1.6168

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| Variable storage data for node | B-9
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	125.5000	0.0000	4.3560	0.0000	0.0001	0.0000
2	125.6250	0.1250	548.3115	25.0641	0.0126	0.0006
3	125.7500	0.2500	1092.2670	125.6669	0.0251	0.0029
4	125.8750	0.3750	1636.2225	295.0564	0.0376	0.0068
5	126.0000	0.5000	2180.1780	532.7697	0.0501	0.0122
6	126.1250	0.6250	2724.1335	838.6588	0.0625	0.0193
7	126.2500	0.7500	3268.0890	1212.6572	0.0750	0.0278
8	126.3750	0.8750	3812.0445	1654.7296	0.0875	0.0380
9	126.5000	1.0000	4356.0000	2164.8546	0.1000	0.0497
10	128.5000	3.0000	4356.0000	10876.8546	0.1000	0.2497

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| Variable storage data for node | C-1
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	120.3400	0.0000	4.3560	0.0000	0.0001	0.0000
2	120.3650	0.0250	150.8265	1.5068	0.0035	0.0000
3	120.3900	0.0500	297.2970	7.0058	0.0068	0.0002
4	120.4150	0.0750	443.7675	16.2082	0.0102	0.0004
5	120.4400	0.1000	590.2380	29.0898	0.0135	0.0007
6	120.4650	0.1250	736.7085	45.6428	0.0169	0.0010
7	120.4900	0.1500	883.1790	65.8638	0.0203	0.0015
8	120.5150	0.1750	1029.6495	89.7507	0.0236	0.0021
9	120.5400	0.2000	1176.1200	117.3026	0.0270	0.0027
10	120.5650	0.2250	1475.5950	150.3783	0.0339	0.0035
11	120.5900	0.2500	1775.0700	190.9540	0.0408	0.0044
12	120.6150	0.2750	2074.5450	239.0256	0.0476	0.0055
13	120.6400	0.3000	2374.0200	294.5906	0.0545	0.0068
14	120.6650	0.3250	2673.4950	357.6475	0.0614	0.0082
15	120.6900	0.3500	2972.9700	428.1952	0.0683	0.0098
16	120.7150	0.3750	3272.4450	506.2330	0.0751	0.0116
17	120.7400	0.4000	3571.9200	591.7602	0.0820	0.0136
18	120.7525	0.4125	3773.3850	637.6626	0.0866	0.0146
19	120.7650	0.4250	3974.8500	686.0836	0.0912	0.0158
20	120.7775	0.4375	4176.3150	737.0232	0.0959	0.0169
21	120.7900	0.4500	4377.7800	790.4814	0.1005	0.0181
22	120.8025	0.4625	4579.2450	846.4581	0.1051	0.0194
23	120.8150	0.4750	4780.7100	904.9533	0.1098	0.0208
24	120.8275	0.4875	4982.1750	965.9670	0.1144	0.0222
25	120.8400	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	120.8525	0.5125	5439.5550	1095.8877	0.1249	0.0252
27	120.8650	0.5250	5695.4700	1165.4755	0.1308	0.0268
28	120.8775	0.5375	5951.3850	1238.2625	0.1366	0.0284
29	120.8900	0.5500	6207.3000	1314.2486	0.1425	0.0302
30	120.9025	0.5625	6463.2150	1393.4340	0.1484	0.0320
31	120.9150	0.5750	6719.1300	1475.8184	0.1542	0.0339
32	120.9275	0.5875	6975.0450	1561.4020	0.1601	0.0358
33	120.9400	0.6000	7230.9600	1650.1848	0.1660	0.0379
34	120.9650	0.6250	7824.4650	1838.3288	0.1796	0.0422
35	120.9900	0.6500	8417.9700	2041.3141	0.1932	0.0469
36	121.0150	0.6750	9011.4750	2259.1400	0.2069	0.0519
37	121.0400	0.7000	9604.9800	2491.8063	0.2205	0.0572
38	121.0650	0.7250	10198.4850	2739.3125	0.2341	0.0629
39	121.0900	0.7500	10791.9900	3001.6585	0.2478	0.0689
40	121.1150	0.7750	11385.4950	3278.8440	0.2614	0.0753
41	121.1400	0.8000	11979.0000	3570.8687	0.2750	0.0820
42	125.5800	5.2400	11979.0000	56757.6287	0.2750	1.3030

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| Variable storage data for node | C-10
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft

Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	117.8600	0.0000	4.3560	0.0000	0.0001	0.0000
2	117.8850	0.0250	150.8265	1.5068	0.0035	0.0000
3	117.9100	0.0500	297.2970	7.0058	0.0068	0.0002
4	117.9350	0.0750	443.7675	16.2082	0.0102	0.0004
5	117.9600	0.1000	590.2380	29.0898	0.0135	0.0007
6	117.9850	0.1250	736.7085	45.6428	0.0169	0.0010
7	118.0100	0.1500	883.1790	65.8638	0.0203	0.0015
8	118.0350	0.1750	1029.6495	89.7507	0.0236	0.0021
9	118.0600	0.2000	1176.1200	117.3026	0.0270	0.0027
10	118.0850	0.2250	1475.5950	150.3783	0.0339	0.0035
11	118.1100	0.2500	1775.0700	190.9540	0.0408	0.0044
12	118.1350	0.2750	2074.5450	239.0256	0.0476	0.0055
13	118.1600	0.3000	2374.0200	294.5906	0.0545	0.0068
14	118.1850	0.3250	2673.4950	357.6475	0.0614	0.0082
15	118.2100	0.3500	2972.9700	428.1952	0.0683	0.0098
16	118.2350	0.3750	3272.4450	506.2330	0.0751	0.0116
17	118.2600	0.4000	3571.9200	591.7602	0.0820	0.0136
18	118.2725	0.4125	3773.3850	637.6626	0.0866	0.0146
19	118.2850	0.4250	3974.8500	686.0836	0.0912	0.0158
20	118.2975	0.4375	4176.3150	737.0232	0.0959	0.0169
21	118.3100	0.4500	4377.7800	790.4814	0.1005	0.0181
22	118.3225	0.4625	4579.2450	846.4581	0.1051	0.0194
23	118.3350	0.4750	4780.7100	904.9533	0.1098	0.0208
24	118.3475	0.4875	4982.1750	965.9670	0.1144	0.0222
25	118.3600	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	118.3725	0.5125	5439.5550	1095.8877	0.1249	0.0252
27	118.3850	0.5250	5695.4700	1165.4755	0.1308	0.0268
28	118.3975	0.5375	5951.3850	1238.2625	0.1366	0.0284
29	118.4100	0.5500	6207.3000	1314.2486	0.1425	0.0302
30	118.4225	0.5625	6463.2150	1393.4340	0.1484	0.0320
31	118.4350	0.5750	6719.1300	1475.8184	0.1542	0.0339
32	118.4475	0.5875	6975.0450	1561.4020	0.1601	0.0358
33	118.4600	0.6000	7230.9600	1650.1848	0.1660	0.0379
34	118.4850	0.6250	7824.4650	1838.3288	0.1796	0.0422
35	118.5100	0.6500	8417.9700	2041.3141	0.1932	0.0469
36	118.5350	0.6750	9011.4750	2259.1400	0.2069	0.0519
37	118.5600	0.7000	9604.9800	2491.8063	0.2205	0.0572
38	118.5850	0.7250	10198.4850	2739.3125	0.2341	0.0629
39	118.6100	0.7500	10791.9900	3001.6585	0.2478	0.0689
40	118.6350	0.7750	11385.4950	3278.8440	0.2614	0.0753
41	118.6600	0.8000	11979.0000	3570.8687	0.2750	0.0820
42	124.5000	6.6400	11979.0000	73528.2287	0.2750	1.6880

Variable storage data for node | C-11

Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	116.3600	0.0000	4.3560	0.0000	0.0001	0.0000
2	116.3850	0.0250	150.8265	1.5068	0.0035	0.0000
3	116.4100	0.0500	297.2970	7.0058	0.0068	0.0002
4	116.4350	0.0750	443.7675	16.2082	0.0102	0.0004
5	116.4600	0.1000	590.2380	29.0898	0.0135	0.0007
6	116.4850	0.1250	736.7085	45.6428	0.0169	0.0010
7	116.5100	0.1500	883.1790	65.8638	0.0203	0.0015
8	116.5350	0.1750	1029.6495	89.7507	0.0236	0.0021
9	116.5600	0.2000	1176.1200	117.3026	0.0270	0.0027
10	116.5850	0.2250	1475.5950	150.3783	0.0339	0.0035
11	116.6100	0.2500	1775.0700	190.9540	0.0408	0.0044
12	116.6350	0.2750	2074.5450	239.0256	0.0476	0.0055
13	116.6600	0.3000	2374.0200	294.5906	0.0545	0.0068
14	116.6850	0.3250	2673.4950	357.6475	0.0614	0.0082
15	116.7100	0.3500	2972.9700	428.1952	0.0683	0.0098
16	116.7350	0.3750	3272.4450	506.2330	0.0751	0.0116
17	116.7600	0.4000	3571.9200	591.7602	0.0820	0.0136
18	116.7725	0.4125	3773.3850	637.6626	0.0866	0.0146
19	116.7850	0.4250	3974.8500	686.0836	0.0912	0.0158
20	116.7975	0.4375	4176.3150	737.0232	0.0959	0.0169
21	116.8100	0.4500	4377.7800	790.4814	0.1005	0.0181
22	116.8225	0.4625	4579.2450	846.4581	0.1051	0.0194
23	116.8350	0.4750	4780.7100	904.9533	0.1098	0.0208
24	116.8475	0.4875	4982.1750	965.9670	0.1144	0.0222
25	116.8600	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	116.8725	0.5125	5439.5550	1095.8877	0.1249	0.0252
27	116.8850	0.5250	5695.4700	1165.4755	0.1308	0.0268
28	116.8975	0.5375	5951.3850	1238.2625	0.1366	0.0284
29	116.9100	0.5500	6207.3000	1314.2486	0.1425	0.0302
30	116.9225	0.5625	6463.2150	1393.4340	0.1484	0.0320
31	116.9350	0.5750	6719.1300	1475.8184	0.1542	0.0339
32	116.9475	0.5875	6975.0450	1561.4020	0.1601	0.0358
33	116.9600	0.6000	7230.9600	1650.1848	0.1660	0.0379
34	116.9850	0.6250	7824.4650	1838.3288	0.1796	0.0422
35	117.0100	0.6500	8417.9700	2041.3141	0.1932	0.0469
36	117.0350	0.6750	9011.4750	2259.1400	0.2069	0.0519
37	117.0600	0.7000	9604.9800	2491.8063	0.2205	0.0572
38	117.0850	0.7250	10198.4850	2739.3125	0.2341	0.0629
39	117.1100	0.7500	10791.9900	3001.6585	0.2478	0.0689
40	117.1350	0.7750	11385.4950	3278.8440	0.2614	0.0753
41	117.1600	0.8000	11979.0000	3570.8687	0.2750	0.0820
42	124.5000	8.1400	11979.0000	91496.7287	0.2750	2.1005

Variable storage data for node | C-12

Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	116.8600	0.0000	4.3560	0.0000	0.0001	0.0000
2	116.8850	0.0250	150.8265	1.5068	0.0035	0.0000
3	116.9100	0.0500	297.2970	7.0058	0.0068	0.0002
4	116.9350	0.0750	443.7675	16.2082	0.0102	0.0004
5	116.9600	0.1000	590.2380	29.0898	0.0135	0.0007
6	116.9850	0.1250	736.7085	45.6428	0.0169	0.0010
7	117.0100	0.1500	883.1790	65.8638	0.0203	0.0015
8	117.0350	0.1750	1029.6495	89.7507	0.0236	0.0021
9	117.0600	0.2000	1176.1200	117.3026	0.0270	0.0027
10	117.0850	0.2250	1475.5950	150.3783	0.0339	0.0035
11	117.1100	0.2500	1775.0700	190.9540	0.0408	0.0044
12	117.1350	0.2750	2074.5450	239.0256	0.0476	0.0055
13	117.1600	0.3000	2374.0200	294.5906	0.0545	0.0068
14	117.1850	0.3250	2673.4950	357.6475	0.0614	0.0082
15	117.2100	0.3500	2972.9700	428.1952	0.0683	0.0098
16	117.2350	0.3750	3272.4450	506.2330	0.0751	0.0116
17	117.2600	0.4000	3571.9200	591.7602	0.0820	0.0136
18	117.2725	0.4125	3773.3850	637.6626	0.0866	0.0146
19	117.2850	0.4250	3974.8500	686.0836	0.0912	0.0158
20	117.2975	0.4375	4176.3150	737.0232	0.0959	0.0169
21	117.3100	0.4500	4377.7800	790.4814	0.1005	0.0181
22	117.3225	0.4625	4579.2450	846.4581	0.1051	0.0194
23	117.3350	0.4750	4780.7100	904.9533	0.1098	0.0208
24	117.3475	0.4875	4982.1750	965.9670	0.1144	0.0222
25	117.3600	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	117.3725	0.5125	5439.5550	1095.8877	0.1249	0.0252
27	117.3850	0.5250	5695.4700	1165.4755	0.1308	0.0268
28	117.3975	0.5375	5951.3850	1238.2625	0.1366	0.0284
29	117.4100	0.5500	6207.3000	1314.2486	0.1425	0.0302

30	117.4225	0.5625	6463.2150	1393.4340	0.1484	0.0320
31	117.4350	0.5750	6719.1300	1475.8184	0.1542	0.0339
32	117.4475	0.5875	6975.0450	1561.4020	0.1601	0.0358
33	117.4600	0.6000	7230.9600	1650.1848	0.1660	0.0379
34	117.4850	0.6250	7824.4650	1838.3288	0.1796	0.0422
35	117.5100	0.6500	8417.9700	2041.3141	0.1932	0.0469
36	117.5350	0.6750	9011.4750	2259.1400	0.2069	0.0519
37	117.5600	0.7000	9604.9800	2491.8063	0.2205	0.0572
38	117.5850	0.7250	10198.4850	2739.3125	0.2341	0.0629
39	117.6100	0.7500	10791.9900	3001.6585	0.2478	0.0689
40	117.6350	0.7750	11385.4950	3278.8440	0.2614	0.0753
41	117.6600	0.8000	11979.0000	3570.8687	0.2750	0.0820
42	124.5000	7.6400	11979.0000	85507.2287	0.2750	1.9630

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| Variable storage data for node | C-13
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	115.8100	0.0000	4.3560	0.0000	0.0001	0.0000
2	115.8350	0.0250	150.8265	1.5068	0.0035	0.0000
3	115.8600	0.0500	297.2970	7.0058	0.0068	0.0002
4	115.8850	0.0750	443.7675	16.2082	0.0102	0.0004
5	115.9100	0.1000	590.2380	29.0898	0.0135	0.0007
6	115.9350	0.1250	736.7085	45.6428	0.0169	0.0010
7	115.9600	0.1500	883.1790	65.8638	0.0203	0.0015
8	115.9850	0.1750	1029.6495	89.7507	0.0236	0.0021
9	116.0100	0.2000	1176.1200	117.3026	0.0270	0.0027
10	116.0350	0.2250	1475.5950	150.3783	0.0339	0.0035
11	116.0600	0.2500	1775.0700	190.9540	0.0408	0.0044
12	116.0850	0.2750	2074.5450	239.0256	0.0476	0.0055
13	116.1100	0.3000	2374.0200	294.5906	0.0545	0.0068
14	116.1350	0.3250	2673.4950	357.6475	0.0614	0.0082
15	116.1600	0.3500	2972.9700	428.1952	0.0683	0.0098
16	116.1850	0.3750	3272.4450	506.2330	0.0751	0.0116
17	116.2100	0.4000	3571.9200	591.7602	0.0820	0.0136
18	116.2225	0.4125	3773.3850	637.6626	0.0866	0.0146
19	116.2350	0.4250	3974.8500	686.0836	0.0912	0.0158
20	116.2475	0.4375	4176.3150	737.0232	0.0959	0.0169
21	116.2600	0.4500	4377.7800	790.4814	0.1005	0.0181
22	116.2725	0.4625	4579.2450	846.4581	0.1051	0.0194
23	116.2850	0.4750	4780.7100	904.9533	0.1098	0.0208
24	116.2975	0.4875	4982.1750	965.9670	0.1144	0.0222
25	116.3100	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	116.3225	0.5125	5439.5550	1095.8877	0.1249	0.0252
27	116.3350	0.5250	5695.4700	1165.4755	0.1308	0.0268
28	116.3475	0.5375	5951.3850	1238.2625	0.1366	0.0284
29	116.3600	0.5500	6207.3000	1314.2486	0.1425	0.0302
30	116.3725	0.5625	6463.2150	1393.4340	0.1484	0.0320
31	116.3850	0.5750	6719.1300	1475.8184	0.1542	0.0339
32	116.3975	0.5875	6975.0450	1561.4020	0.1601	0.0358
33	116.4100	0.6000	7230.9600	1650.1848	0.1660	0.0379
34	116.4350	0.6250	7824.4650	1838.3288	0.1796	0.0422
35	116.4600	0.6500	8417.9700	2041.3141	0.1932	0.0469
36	116.4850	0.6750	9011.4750	2259.1400	0.2069	0.0519
37	116.5100	0.7000	9604.9800	2491.8063	0.2205	0.0572
38	116.5350	0.7250	10198.4850	2739.3125	0.2341	0.0629
39	116.5600	0.7500	10791.9900	3001.6585	0.2478	0.0689
40	116.5850	0.7750	11385.4950	3278.8440	0.2614	0.0753
41	116.6100	0.8000	11979.0000	3570.8687	0.2750	0.0820
42	125.2700	9.4600	11979.0000	107309.0087	0.2750	2.4635

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| Variable storage data for node | C-14
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	114.3700	0.0000	4.3560	0.0000	0.0001	0.0000
2	114.3950	0.0250	150.8265	1.5068	0.0035	0.0000
3	114.4200	0.0500	297.2970	7.0058	0.0068	0.0002
4	114.4450	0.0750	443.7675	16.2082	0.0102	0.0004
5	114.4700	0.1000	590.2380	29.0898	0.0135	0.0007
6	114.4950	0.1250	736.7085	45.6428	0.0169	0.0010
7	114.5200	0.1500	883.1790	65.8638	0.0203	0.0015
8	114.5450	0.1750	1029.6495	89.7507	0.0236	0.0021
9	114.5700	0.2000	1176.1200	117.3026	0.0270	0.0027
10	114.5950	0.2250	1475.5950	150.3783	0.0339	0.0035
11	114.6200	0.2500	1775.0700	190.9540	0.0408	0.0044
12	114.6450	0.2750	2074.5450	239.0256	0.0476	0.0055
13	114.6700	0.3000	2374.0200	294.5906	0.0545	0.0068
14	114.6950	0.3250	2673.4950	357.6475	0.0614	0.0082
15	114.7200	0.3500	2972.9700	428.1952	0.0683	0.0098
16	114.7450	0.3750	3272.4450	506.2330	0.0751	0.0116
17	114.7700	0.4000	3571.9200	591.7602	0.0820	0.0136
18	114.7825	0.4125	3773.3850	637.6626	0.0866	0.0146
19	114.7950	0.4250	3974.8500	686.0836	0.0912	0.0158
20	114.8075	0.4375	4176.3150	737.0232	0.0959	0.0169
21	114.8200	0.4500	4377.7800	790.4814	0.1005	0.0181
22	114.8325	0.4625	4579.2450	846.4581	0.1051	0.0194
23	114.8450	0.4750	4780.7100	904.9533	0.1098	0.0208
24	114.8575	0.4875	4982.1750	965.9670	0.1144	0.0222
25	114.8700	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	114.8825	0.5125	5439.5550	1095.8877	0.1249	0.0252
27	114.8950	0.5250	5695.4700	1165.4755	0.1308	0.0268
28	114.9075	0.5375	5951.3850	1238.2625	0.1366	0.0284
29	114.9200	0.5500	6207.3000	1314.2486	0.1425	0.0302
30	114.9325	0.5625	6463.2150	1393.4340	0.1484	0.0320
31	114.9450	0.5750	6719.1300	1475.8184	0.1542	0.0339
32	114.9575	0.5875	6975.0450	1561.4020	0.1601	0.0358
33	114.9700	0.6000	7230.9600	1650.1848	0.1660	0.0379
34	114.9950	0.6250	7824.4650	1838.3288	0.1796	0.0422
35	115.0200	0.6500	8417.9700	2041.3141	0.1932	0.0469
36	115.0450	0.6750	9011.4750	2259.1400	0.2069	0.0519
37	115.0700	0.7000	9604.9800	2491.8063	0.2205	0.0572
38	115.0950	0.7250	10198.4850	2739.3125	0.2341	0.0629
39	115.1200	0.7500	10791.9900	3001.6585	0.2478	0.0689
40	115.1450	0.7750	11385.4950	3278.8440	0.2614	0.0753
41	115.1700	0.8000	11979.0000	3570.8687	0.2750	0.0820
42	125.2700	10.9000	11979.0000	124558.7687	0.2750	2.8595

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| Variable storage data for node | C-2
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	120.5000	0.0000	4.3560	0.0000	0.0001	0.0000
2	120.5250	0.0250	150.8265	1.5068	0.0035	0.0000
3	120.5500	0.0500	297.2970	7.0058	0.0068	0.0002
4	120.5750	0.0750	443.7675	16.2082	0.0102	0.0004
5	120.6000	0.1000	590.2380	29.0898	0.0135	0.0007
6	120.6250	0.1250	736.7085	45.6428	0.0169	0.0010
7	120.6500	0.1500	883.1790	65.8638	0.0203	0.0015
8	120.6750	0.1750	1029.6495	89.7507	0.0236	0.0021
9	120.7000	0.2000	1176.1200	117.3026	0.0270	0.0027
10	120.7250	0.2250	1475.5950	150.3783	0.0339	0.0035

11	120.7500	0.2500	1775.0700	190.9540	0.0408	0.0044
12	120.7750	0.2750	2074.5450	239.0256	0.0476	0.0055
13	120.8000	0.3000	2374.0200	294.5906	0.0545	0.0068
14	120.8250	0.3250	2673.4950	357.6475	0.0614	0.0082
15	120.8500	0.3500	2972.9700	428.1952	0.0683	0.0098
16	120.8750	0.3750	3272.4450	506.2330	0.0751	0.0116
17	120.9000	0.4000	3571.9200	591.7602	0.0820	0.0136
18	120.9125	0.4125	3773.3850	637.6626	0.0866	0.0146
19	120.9250	0.4250	3974.8500	686.0836	0.0912	0.0158
20	120.9375	0.4375	4176.3150	737.0232	0.0959	0.0169
21	120.9500	0.4500	4377.7800	790.4814	0.1005	0.0181
22	120.9625	0.4625	4579.2450	846.4581	0.1051	0.0194
23	120.9750	0.4750	4780.7100	904.9533	0.1098	0.0208
24	120.9875	0.4875	4982.1750	965.9670	0.1144	0.0222
25	121.0000	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	121.0125	0.5125	5439.5550	1095.8877	0.1249	0.0252
27	121.0250	0.5250	5695.4700	1165.4755	0.1308	0.0268
28	121.0375	0.5375	5951.3850	1238.2625	0.1366	0.0284
29	121.0500	0.5500	6207.3000	1314.2486	0.1425	0.0302
30	121.0625	0.5625	6463.2150	1393.4340	0.1484	0.0320
31	121.0750	0.5750	6719.1300	1475.8184	0.1542	0.0339
32	121.0875	0.5875	6975.0450	1561.4020	0.1601	0.0358
33	121.1000	0.6000	7230.9600	1650.1848	0.1660	0.0379
34	121.1250	0.6250	7824.4650	1838.3288	0.1796	0.0422
35	121.1500	0.6500	8417.9700	2041.3141	0.1932	0.0469
36	121.1750	0.6750	9011.4750	2259.1400	0.2069	0.0519
37	121.2000	0.7000	9604.9800	2491.8063	0.2205	0.0572
38	121.2250	0.7250	10198.4850	2739.3125	0.2341	0.0629
39	121.2500	0.7500	10791.9900	3001.6585	0.2478	0.0689
40	121.2750	0.7750	11385.4950	3278.8440	0.2614	0.0753
41	121.3000	0.8000	11979.0000	3570.8687	0.2750	0.0820
42	125.0900	4.5900	11979.0000	48971.2787	0.2750	1.1242

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| Variable storage data for node | C-3
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	119.0000	0.0000	4.3560	0.0000	0.0001	0.0000
2	119.0250	0.0250	150.8265	1.5068	0.0035	0.0000
3	119.0500	0.0500	297.2970	7.0058	0.0068	0.0002
4	119.0750	0.0750	443.7675	16.2082	0.0102	0.0004
5	119.1000	0.1000	590.2380	29.0898	0.0135	0.0007
6	119.1250	0.1250	736.7085	45.6428	0.0169	0.0010
7	119.1500	0.1500	883.1790	65.8638	0.0203	0.0015
8	119.1750	0.1750	1029.6495	89.7507	0.0236	0.0021
9	119.2000	0.2000	1176.1200	117.3026	0.0270	0.0027
10	119.2250	0.2250	1475.5950	150.3783	0.0339	0.0035
11	119.2500	0.2500	1775.0700	190.9540	0.0408	0.0044
12	119.2750	0.2750	2074.5450	239.0256	0.0476	0.0055
13	119.3000	0.3000	2374.0200	294.5906	0.0545	0.0068
14	119.3250	0.3250	2673.4950	357.6475	0.0614	0.0082
15	119.3500	0.3500	2972.9700	428.1952	0.0683	0.0098
16	119.3750	0.3750	3272.4450	506.2330	0.0751	0.0116
17	119.4000	0.4000	3571.9200	591.7602	0.0820	0.0136
18	119.4125	0.4125	3773.3850	637.6626	0.0866	0.0146
19	119.4250	0.4250	3974.8500	686.0836	0.0912	0.0158
20	119.4375	0.4375	4176.3150	737.0232	0.0959	0.0169
21	119.4500	0.4500	4377.7800	790.4814	0.1005	0.0181
22	119.4625	0.4625	4579.2450	846.4581	0.1051	0.0194
23	119.4750	0.4750	4780.7100	904.9533	0.1098	0.0208
24	119.4875	0.4875	4982.1750	965.9670	0.1144	0.0222
25	119.5000	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	119.5125	0.5125	5439.5550	1095.8877	0.1249	0.0252
27	119.5250	0.5250	5695.4700	1165.4755	0.1308	0.0268
28	119.5375	0.5375	5951.3850	1238.2625	0.1366	0.0284
29	119.5500	0.5500	6207.3000	1314.2486	0.1425	0.0302
30	119.5625	0.5625	6463.2150	1393.4340	0.1484	0.0320
31	119.5750	0.5750	6719.1300	1475.8184	0.1542	0.0339
32	119.5875	0.5875	6975.0450	1561.4020	0.1601	0.0358
33	119.6000	0.6000	7230.9600	1650.1848	0.1660	0.0379
34	119.6250	0.6250	7824.4650	1838.3288	0.1796	0.0422
35	119.6500	0.6500	8417.9700	2041.3141	0.1932	0.0469
36	119.6750	0.6750	9011.4750	2259.1400	0.2069	0.0519
37	119.7000	0.7000	9604.9800	2491.8063	0.2205	0.0572
38	119.7250	0.7250	10198.4850	2739.3125	0.2341	0.0629
39	119.7500	0.7500	10791.9900	3001.6585	0.2478	0.0689
40	119.7750	0.7750	11385.4950	3278.8440	0.2614	0.0753
41	119.8000	0.8000	11979.0000	3570.8687	0.2750	0.0820
42	125.3000	6.3000	11979.0000	69455.3687	0.2750	1.5945

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| Variable storage data for node | C-4
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	119.9200	0.0000	4.3560	0.0000	0.0001	0.0000
2	119.9450	0.0250	150.8265	1.5068	0.0035	0.0000
3	119.9700	0.0500	297.2970	7.0058	0.0068	0.0002
4	119.9950	0.0750	443.7675	16.2082	0.0102	0.0004
5	120.0200	0.1000	590.2380	29.0898	0.0135	0.0007
6	120.0450	0.1250	736.7085	45.6428	0.0169	0.0010
7	120.0700	0.1500	883.1790	65.8638	0.0203	0.0015
8	120.0950	0.1750	1029.6495	89.7507	0.0236	0.0021
9	120.1200	0.2000	1176.1200	117.3026	0.0270	0.0027
10	120.1450	0.2250	1475.5950	150.3783	0.0339	0.0035
11	120.1700	0.2500	1775.0700	190.9540	0.0408	0.0044
12	120.1950	0.2750	2074.5450	239.0256	0.0476	0.0055
13	120.2200	0.3000	2374.0200	294.5906	0.0545	0.0068
14	120.2450	0.3250	2673.4950	357.6475	0.0614	0.0082
15	120.2700	0.3500	2972.9700	428.1952	0.0683	0.0098
16	120.2950	0.3750	3272.4450	506.2330	0.0751	0.0116
17	120.3200	0.4000	3571.9200	591.7602	0.0820	0.0136
18	120.3325	0.4125	3773.3850	637.6626	0.0866	0.0146
19	120.3450	0.4250	3974.8500	686.0836	0.0912	0.0158
20	120.3575	0.4375	4176.3150	737.0232	0.0959	0.0169
21	120.3700	0.4500	4377.7800	790.4814	0.1005	0.0181
22	120.3825	0.4625	4579.2450	846.4581	0.1051	0.0194
23	120.3950	0.4750	4780.7100	904.9533	0.1098	0.0208
24	120.4075	0.4875	4982.1750	965.9670	0.1144	0.0222
25	120.4200	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	120.4325	0.5125	5439.5550	1095.8877	0.1249	0.0252
27	120.4450	0.5250	5695.4700	1165.4755	0.1308	0.0268
28	120.4575	0.5375	5951.3850	1238.2625	0.1366	0.0284
29	120.4700	0.5500	6207.3000	1314.2486	0.1425	0.0302
30	120.4825	0.5625	6463.2150	1393.4340	0.1484	0.0320
31	120.4950	0.5750	6719.1300	1475.8184	0.1542	0.0339
32	120.5075	0.5875	6975.0450	1561.4020	0.1601	0.0358
33	120.5200	0.6000	7230.9600	1650.1848	0.1660	0.0379
34	120.5450	0.6250	7824.4650	1838.3288	0.1796	0.0422
35	120.5700	0.6500	8417.9700	2041.3141	0.1932	0.0469
36	120.5950	0.6750	9011.4750	2259.1400	0.2069	0.0519
37	120.6200	0.7000	9604.9800	2491.8063	0.2205	0.0572
38	120.6450	0.7250	10198.4850	2739.3125	0.2341	0.0629
39	120.6700	0.7500	10791.9900	3001.6585	0.2478	0.0689
40	120.6950	0.7750	11385.4950	3278.8440	0.2614	0.0753

41	120.7200	0.8000	11979.0000	3570.8687	0.2750	0.0820
42	124.5000	4.5800	11979.0000	48851.4887	0.2750	1.1215

Variable storage data for node | C-5						
Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	117.6000	0.0000	4.3560	0.0000	0.0001	0.0000
2	117.6250	0.0250	150.8265	1.5068	0.0035	0.0000
3	117.6500	0.0500	297.2970	7.0058	0.0068	0.0002
4	117.6750	0.0750	443.7675	16.2082	0.0102	0.0004
5	117.7000	0.1000	590.2380	29.0898	0.0135	0.0007
6	117.7250	0.1250	736.7085	45.6428	0.0169	0.0010
7	117.7500	0.1500	883.1790	65.8638	0.0203	0.0015
8	117.7750	0.1750	1029.6495	89.7507	0.0236	0.0021
9	117.8000	0.2000	1176.1200	117.3026	0.0270	0.0027
10	117.8250	0.2250	1475.5950	150.3783	0.0339	0.0035
11	117.8500	0.2500	1775.0700	190.9540	0.0408	0.0044
12	117.8750	0.2750	2074.5450	239.0256	0.0476	0.0055
13	117.9000	0.3000	2374.0200	294.5906	0.0545	0.0068
14	117.9250	0.3250	2673.4950	357.6475	0.0614	0.0082
15	117.9500	0.3500	2972.9700	428.1952	0.0683	0.0098
16	117.9750	0.3750	3272.4450	506.2330	0.0751	0.0116
17	118.0000	0.4000	3571.9200	591.7602	0.0820	0.0136
18	118.0125	0.4125	3773.3850	637.6626	0.0866	0.0146
19	118.0250	0.4250	3974.8500	686.0836	0.0912	0.0158
20	118.0375	0.4375	4176.3150	737.0232	0.0959	0.0169
21	118.0500	0.4500	4377.7800	790.4814	0.1005	0.0181
22	118.0625	0.4625	4579.2450	846.4581	0.1051	0.0194
23	118.0750	0.4750	4780.7100	904.9533	0.1098	0.0208
24	118.0875	0.4875	4982.1750	965.9670	0.1144	0.0222
25	118.1000	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	118.1125	0.5125	5439.5550	1095.8877	0.1249	0.0252
27	118.1250	0.5250	5695.4700	1165.4755	0.1308	0.0268
28	118.1375	0.5375	5951.3850	1238.2625	0.1366	0.0284
29	118.1500	0.5500	6207.3000	1314.2486	0.1425	0.0302
30	118.1625	0.5625	6463.2150	1393.4340	0.1484	0.0320
31	118.1750	0.5750	6719.1300	1475.8184	0.1542	0.0339
32	118.1875	0.5875	6975.0450	1561.4020	0.1601	0.0358
33	118.2000	0.6000	7230.9600	1650.1848	0.1660	0.0379
34	118.2250	0.6250	7824.4650	1838.3288	0.1796	0.0422
35	118.2500	0.6500	8417.9700	2041.3141	0.1932	0.0469
36	118.2750	0.6750	9011.4750	2259.1400	0.2069	0.0519
37	118.3000	0.7000	9604.9800	2491.8063	0.2205	0.0572
38	118.3250	0.7250	10198.4850	2739.3125	0.2341	0.0629
39	118.3500	0.7500	10791.9900	3001.6585	0.2478	0.0689
40	118.3750	0.7750	11385.4950	3278.8440	0.2614	0.0753
41	118.4000	0.8000	11979.0000	3570.8687	0.2750	0.0820
42	124.5000	6.9000	11979.0000	76642.7687	0.2750	1.7595

Variable storage data for node | C-6						
Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	118.9000	0.0000	4.3560	0.0000	0.0001	0.0000
2	118.9250	0.0250	150.8265	1.5068	0.0035	0.0000
3	118.9500	0.0500	297.2970	7.0058	0.0068	0.0002
4	118.9750	0.0750	443.7675	16.2082	0.0102	0.0004
5	119.0000	0.1000	590.2380	29.0898	0.0135	0.0007
6	119.0250	0.1250	736.7085	45.6428	0.0169	0.0010
7	119.0500	0.1500	883.1790	65.8638	0.0203	0.0015
8	119.0750	0.1750	1029.6495	89.7507	0.0236	0.0021
9	119.1000	0.2000	1176.1200	117.3026	0.0270	0.0027
10	119.1250	0.2250	1475.5950	150.3783	0.0339	0.0035
11	119.1500	0.2500	1775.0700	190.9540	0.0408	0.0044
12	119.1750	0.2750	2074.5450	239.0256	0.0476	0.0055
13	119.2000	0.3000	2374.0200	294.5906	0.0545	0.0068
14	119.2250	0.3250	2673.4950	357.6475	0.0614	0.0082
15	119.2500	0.3500	2972.9700	428.1952	0.0683	0.0098
16	119.2750	0.3750	3272.4450	506.2330	0.0751	0.0116
17	119.3000	0.4000	3571.9200	591.7602	0.0820	0.0136
18	119.3125	0.4125	3773.3850	637.6626	0.0866	0.0146
19	119.3250	0.4250	3974.8500	686.0836	0.0912	0.0158
20	119.3375	0.4375	4176.3150	737.0232	0.0959	0.0169
21	119.3500	0.4500	4377.7800	790.4814	0.1005	0.0181
22	119.3625	0.4625	4579.2450	846.4581	0.1051	0.0194
23	119.3750	0.4750	4780.7100	904.9533	0.1098	0.0208
24	119.3875	0.4875	4982.1750	965.9670	0.1144	0.0222
25	119.4000	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	119.4125	0.5125	5439.5550	1095.8877	0.1249	0.0252
27	119.4250	0.5250	5695.4700	1165.4755	0.1308	0.0268
28	119.4375	0.5375	5951.3850	1238.2625	0.1366	0.0284
29	119.4500	0.5500	6207.3000	1314.2486	0.1425	0.0302
30	119.4625	0.5625	6463.2150	1393.4340	0.1484	0.0320
31	119.4750	0.5750	6719.1300	1475.8184	0.1542	0.0339
32	119.4875	0.5875	6975.0450	1561.4020	0.1601	0.0358
33	119.5000	0.6000	7230.9600	1650.1848	0.1660	0.0379
34	119.5250	0.6250	7824.4650	1838.3288	0.1796	0.0422
35	119.5500	0.6500	8417.9700	2041.3141	0.1932	0.0469
36	119.5750	0.6750	9011.4750	2259.1400	0.2069	0.0519
37	119.6000	0.7000	9604.9800	2491.8063	0.2205	0.0572
38	119.6250	0.7250	10198.4850	2739.3125	0.2341	0.0629
39	119.6500	0.7500	10791.9900	3001.6585	0.2478	0.0689
40	119.6750	0.7750	11385.4950	3278.8440	0.2614	0.0753
41	119.7000	0.8000	11979.0000	3570.8687	0.2750	0.0820
42	124.5000	5.6000	11979.0000	61070.0687	0.2750	1.4020

Variable storage data for node | C-9						
Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	116.9600	0.0000	4.3560	0.0000	0.0001	0.0000
2	116.9850	0.0250	150.8265	1.5068	0.0035	0.0000
3	117.0100	0.0500	297.2970	7.0058	0.0068	0.0002
4	117.0350	0.0750	443.7675	16.2082	0.0102	0.0004
5	117.0600	0.1000	590.2380	29.0898	0.0135	0.0007
6	117.0850	0.1250	736.7085	45.6428	0.0169	0.0010
7	117.1100	0.1500	883.1790	65.8638	0.0203	0.0015
8	117.1350	0.1750	1029.6495	89.7507	0.0236	0.0021
9	117.1600	0.2000	1176.1200	117.3026	0.0270	0.0027
10	117.1850	0.2250	1475.5950	150.3783	0.0339	0.0035
11	117.2100	0.2500	1775.0700	190.9540	0.0408	0.0044
12	117.2350	0.2750	2074.5450	239.0256	0.0476	0.0055
13	117.2600	0.3000	2374.0200	294.5906	0.0545	0.0068
14	117.2850	0.3250	2673.4950	357.6475	0.0614	0.0082
15	117.3100	0.3500	2972.9700	428.1952	0.0683	0.0098
16	117.3350	0.3750	3272.4450	506.2330	0.0751	0.0116
17	117.3600	0.4000	3571.9200	591.7602	0.0820	0.0136
18	117.3725	0.4125	3773.3850	637.6626	0.0866	0.0146
19	117.3850	0.4250	3974.8500	686.0836	0.0912	0.0158
20	117.3975	0.4375	4176.3150	737.0232	0.0959	0.0169
21	117.4100	0.4500	4377.7800	790.4814	0.1005	0.0181

22	117.4225	0.4625	4579.2450	846.4581	0.1051	0.0194
23	117.4350	0.4750	4780.7100	904.9533	0.1098	0.0208
24	117.4475	0.4875	4982.1750	965.9670	0.1144	0.0222
25	117.4600	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	117.4725	0.5125	5439.5550	1095.8877	0.1249	0.0252
27	117.4850	0.5250	5695.4700	1165.4755	0.1308	0.0268
28	117.4975	0.5375	5951.3850	1238.2625	0.1366	0.0284
29	117.5100	0.5500	6207.3000	1314.2486	0.1425	0.0302
30	117.5225	0.5625	6463.2150	1393.4340	0.1484	0.0320
31	117.5350	0.5750	6719.1300	1475.8184	0.1542	0.0339
32	117.5475	0.5875	6975.0450	1561.4020	0.1601	0.0358
33	117.5600	0.6000	7230.9600	1650.1848	0.1660	0.0379
34	117.5850	0.6250	7824.4650	1838.3288	0.1796	0.0422
35	117.6100	0.6500	8417.9700	2041.3141	0.1932	0.0469
36	117.6350	0.6750	9011.4750	2259.1400	0.2069	0.0519
37	117.6600	0.7000	9604.9800	2491.8063	0.2205	0.0572
38	117.6850	0.7250	10198.4850	2739.3125	0.2341	0.0629
39	117.7100	0.7500	10791.9900	3001.6585	0.2478	0.0689
40	117.7350	0.7750	11385.4950	3278.8440	0.2614	0.0753
41	117.7600	0.8000	11979.0000	3570.8687	0.2750	0.0820
42	124.5000	7.5400	11979.0000	84309.3287	0.2750	1.9355

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| Variable storage data for node | MH-34
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	120.3400	0.0000	4.3560	0.0000	0.0001	0.0000
2	120.3725	0.0325	766.1115	8.9726	0.0176	0.0002
3	120.4050	0.0650	1527.8670	45.5446	0.0351	0.0010
4	120.4375	0.0975	2289.6225	107.1630	0.0526	0.0025
5	120.4700	0.1300	3051.3780	193.6585	0.0701	0.0044
6	120.5025	0.1625	3813.1335	304.9771	0.0875	0.0070
7	120.5350	0.1950	4574.8890	441.0947	0.1050	0.0101
8	120.5675	0.2275	5336.6445	601.9984	0.1225	0.0138
9	120.6000	0.2600	6098.4000	787.6803	0.1400	0.0181
10	127.9000	7.5600	6098.4000	45306.0003	0.1400	1.0401

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| Variable storage data for node | MH-35
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	119.5800	0.0000	4.3560	0.0000	0.0001	0.0000
2	119.6300	0.0500	766.1115	13.8039	0.0176	0.0003
3	119.6800	0.1000	1527.8670	70.0686	0.0351	0.0016
4	119.7300	0.1500	2289.6225	164.8661	0.0526	0.0038
5	119.7800	0.2000	3051.3780	297.9361	0.0701	0.0068
6	119.8300	0.2500	3813.1335	469.1956	0.0875	0.0108
7	119.8800	0.3000	4574.8890	678.6073	0.1050	0.0156
8	119.9300	0.3500	5336.6445	926.1513	0.1225	0.0213
9	119.9800	0.4000	6098.4000	1211.8158	0.1400	0.0278
10	125.8000	6.2200	6098.4000	36704.5038	0.1400	0.8426

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| Variable storage data for node | MH-36
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	119.2800	0.0000	4.3560	0.0000	0.0001	0.0000
2	119.3675	0.0875	1147.2615	35.6507	0.0263	0.0008
3	119.4550	0.1750	2290.1670	183.1862	0.0526	0.0042
4	119.5425	0.2625	3433.0725	431.8968	0.0788	0.0099
5	119.6300	0.3500	4575.9780	781.0974	0.1050	0.0179
6	119.7175	0.4375	5718.8835	1230.5696	0.1313	0.0282
7	119.8050	0.5250	6861.7890	1780.2153	0.1575	0.0409
8	119.8925	0.6125	8004.6945	2429.9824	0.1838	0.0558
9	119.9800	0.7000	9147.6000	3179.8393	0.2100	0.0730
10	125.5000	6.2200	9147.6000	53674.5913	0.2100	1.2322

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| Variable storage data for node | MH-39
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	118.4300	0.0000	43.5600	0.0000	0.0010	0.0000
2	119.2513	0.8213	43.5600	35.7737	0.0010	0.0008
3	120.0725	1.6425	43.5600	71.5473	0.0010	0.0016
4	120.8938	2.4638	43.5600	107.3210	0.0010	0.0025
5	121.7150	3.2850	43.5600	143.0946	0.0010	0.0033
6	122.5363	4.1063	43.5600	178.8683	0.0010	0.0041
7	123.3575	4.9275	43.5600	214.6419	0.0010	0.0049
8	124.1788	5.7488	43.5600	250.4156	0.0010	0.0057
9	125.0000	6.5700	43.5600	286.1892	0.0010	0.0066
10	125.1250	6.6950	854.8650	331.6640	0.0196	0.0076
11	125.2500	6.8200	1666.1700	486.4347	0.0382	0.0112
12	125.3750	6.9450	2477.4750	743.7417	0.0569	0.0171
13	125.5000	7.0700	3288.7800	1102.9376	0.0755	0.0253
14	125.6250	7.1950	4100.0850	1563.8109	0.0941	0.0359
15	125.7500	7.3200	4911.3900	2126.2657	0.1127	0.0488
16	125.8750	7.4450	5722.6950	2790.2503	0.1314	0.0641
17	126.0000	7.5700	6534.0000	3555.7338	0.1500	0.0816
18	126.1250	7.6950	6806.2500	4389.4415	0.1562	0.1008
19	126.2500	7.8200	7078.5000	5257.1828	0.1625	0.1207
20	126.3750	7.9450	7350.7500	6158.9574	0.1688	0.1414
21	126.5000	8.0700	7623.0000	7094.7652	0.1750	0.1629
22	126.6250	8.1950	7895.2500	8064.6061	0.1812	0.1851
23	126.7500	8.3200	8167.5000	9068.4799	0.1875	0.2082
24	126.8750	8.4450	8439.7500	10106.3865	0.1938	0.2320
25	127.0000	8.5700	8712.0000	11178.3258	0.2000	0.2566

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| Variable storage data for node | MH-40
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	118.2800	0.0000	43.5600	0.0000	0.0010	0.0000
2	119.1825	0.9025	43.5600	39.3129	0.0010	0.0009
3	120.0850	1.8050	43.5600	78.6258	0.0010	0.0018
4	120.9875	2.7075	43.5600	117.9387	0.0010	0.0027
5	121.8900	3.6100	43.5600	157.2516	0.0010	0.0036
6	122.7925	4.5125	43.5600	196.5645	0.0010	0.0045
7	123.6950	5.4150	43.5600	235.8774	0.0010	0.0054
8	124.5975	6.3175	43.5600	275.1903	0.0010	0.0063
9	125.5000	7.2200	43.5600	314.5032	0.0010	0.0072
10	125.6250	7.3450	473.7150	342.0417	0.0109	0.0079
11	125.7500	7.4700	903.8700	426.7057	0.0207	0.0098
12	125.8750	7.5950	1334.0250	565.7048	0.0306	0.0130
13	126.0000	7.7200	1764.1800	758.7175	0.0405	0.0174
14	126.1250	7.8450	2194.3350	1005.6363	0.0504	0.0231
15	126.2500	7.9700	2624.4900	1306.4121	0.0602	0.0300
16	126.3750	8.0950	3054.6450	1661.0182	0.0701	0.0381
17	126.5000	8.2200	3484.8000	2069.4384	0.0800	0.0475

18	126.5625	8.2825	4029.3000	2304.0483	0.0925	0.0529
19	126.6250	8.3450	4573.8000	2572.7155	0.1050	0.0591
20	126.6875	8.4075	5118.3000	2875.4341	0.1175	0.0660
21	126.7500	8.4700	5662.8000	3212.2002	0.1300	0.0737
22	126.8125	8.5325	6207.3000	3583.0107	0.1425	0.0823
23	126.8750	8.5950	6751.8000	3987.8633	0.1550	0.0915
24	126.9375	8.6575	7296.3000	4426.7565	0.1675	0.1016
25	127.0000	8.7200	7840.8000	4899.6888	0.1800	0.1125
26	127.5000	9.2200	7840.8000	8820.0888	0.1800	0.2025

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| Variable storage data for node | E131-Pond
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	121.1800	0.0000	4.3560	0.0000	0.0001	0.0000
2	121.2825	0.1025	52765.8615	1819.3628	1.2113	0.0418
3	121.3850	0.2050	105527.3670	9777.2539	2.4226	0.2245
4	121.4875	0.3075	158288.8725	23206.7851	3.6338	0.5328
5	121.5900	0.4100	211050.3780	42070.7098	4.8450	0.9658
6	121.6925	0.5125	263811.8835	66357.1715	6.0563	1.5234
7	121.7950	0.6150	316573.3890	96060.8623	7.2675	2.2053
8	121.8975	0.7175	369334.8945	131178.9438	8.4788	3.0115
9	122.0000	0.8200	422096.4000	171709.7197	9.6900	3.9419
10	122.2500	1.0700	425799.0000	277696.3079	9.7750	6.3750
11	122.5000	1.3200	429501.6000	384608.5490	9.8600	8.8294
12	122.7500	1.5700	433204.2000	492446.4429	9.9450	11.3050
13	123.0000	1.8200	436906.8000	601209.9897	10.0300	13.8019
14	123.2500	2.0700	440609.4000	710899.1892	10.1150	16.3200
15	123.5000	2.3200	444312.0000	821514.0414	10.2000	18.8594
16	123.7500	2.5700	448014.6000	933054.5464	10.2850	21.4200
17	124.0000	2.8200	451717.2000	1.045521E+06	10.3700	24.0019
18	124.2500	3.0700	455419.8000	1.158913E+06	10.4550	26.6050
19	124.5000	3.3200	459122.4000	1.273230E+06	10.5400	29.2293
20	124.7500	3.5700	462825.0000	1.388473E+06	10.6250	31.8750
21	125.0000	3.8200	466527.6000	1.504642E+06	10.7100	34.5418
22	125.2500	4.0700	470230.2000	1.621736E+06	10.7950	37.2299
23	125.5000	4.3200	473932.8000	1.739756E+06	10.8800	39.9393
24	125.7500	4.5700	477635.4000	1.858702E+06	10.9650	42.6699
25	126.0000	4.8200	481338.0000	1.978573E+06	11.0500	45.4218
26	126.2500	5.0700	485203.9500	2.099391E+06	11.1387	48.1954
27	126.5000	5.3200	489069.9000	2.221175E+06	11.2275	50.9912
28	126.7500	5.5700	492935.8500	2.343925E+06	11.3163	53.8091
29	127.0000	5.8200	496801.8000	2.467642E+06	11.4050	56.6493
30	127.2500	6.0700	500667.7500	2.592325E+06	11.4938	59.5116
31	127.5000	6.3200	504533.7000	2.717975E+06	11.5825	62.3961
32	127.7500	6.5700	508399.6500	2.844592E+06	11.6713	65.3028
33	128.0000	6.8200	512265.6000	2.972175E+06	11.7600	68.2317

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| Variable storage data for node | E100-Pond
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	124.7400	0.0000	43.5600	0.0000	0.0010	0.0000
2	124.9600	0.2200	37227.4650	2826.5935	0.8546	0.0649
3	125.1800	0.4400	74411.3700	14873.1348	1.7082	0.3414
4	125.4000	0.6600	111595.2750	35196.1992	2.5619	0.8080
5	125.6200	0.8800	148779.1800	63739.5339	3.4155	1.4633
6	125.8400	1.1000	185963.0850	100485.2228	4.2691	2.3068
7	126.0600	1.3200	223146.9900	145425.2425	5.1227	3.3385
8	126.2800	1.5400	260330.8950	198555.3027	5.9764	4.5582
9	126.5000	1.7600	297514.8000	259872.8387	6.8300	5.9659
10	126.7500	2.0100	300400.6500	334611.9798	6.8963	7.6816
11	127.0000	2.2600	303286.5000	410072.5861	6.9625	9.4140
12	127.2500	2.5100	306172.3500	486254.6577	7.0288	11.1629
13	127.5000	2.7600	309058.2000	563158.1944	7.0950	12.9283
14	127.7500	3.0100	311944.0500	640783.1963	7.1612	14.7104
15	128.0000	3.2600	314829.9000	719129.6632	7.2275	16.5089
16	128.2500	3.5100	317715.7500	798197.5952	7.2937	18.3241
17	128.5000	3.7600	320601.6000	877986.9921	7.3600	20.1558
18	128.7500	4.0100	323541.9000	958504.6500	7.4275	22.0042
19	129.0000	4.2600	326482.2000	1.039757E+06	7.4950	23.8695
20	129.2500	4.5100	329422.5000	1.121745E+06	7.5625	25.7517
21	129.5000	4.7600	332362.8000	1.204468E+06	7.6300	27.6508
22	129.7500	5.0100	335303.1000	1.287926E+06	7.6975	29.5667
23	130.0000	5.2600	338243.4000	1.372119E+06	7.7650	31.4995
24	130.2500	5.5100	341183.7000	1.457047E+06	7.8325	33.4492
25	130.5000	5.7600	344124.0000	1.542710E+06	7.9000	35.4158
26	130.7500	6.0100	347173.2000	1.629122E+06	7.9700	37.3995
27	131.0000	6.2600	350222.4000	1.716296E+06	8.0400	39.4007
28	131.2500	6.5100	353271.6000	1.804233E+06	8.1100	41.4195
29	131.5000	6.7600	356320.8000	1.892932E+06	8.1800	43.4557
30	131.7500	7.0100	359370.0000	1.982393E+06	8.2500	45.5095
31	132.0000	7.2600	362419.2000	2.072616E+06	8.3200	47.5807
32	132.2500	7.5100	365468.4000	2.163602E+06	8.3900	49.6695
33	132.5000	7.7600	368517.6000	2.255350E+06	8.4600	51.7757

==
| Orifice Data |
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Conduit Name	From Junction	To Junction	Type	Area (ft2)	Depth (ft)	Discharge Coefficient	Height Above Junction (ft)
rect-orif	Node458	MH-33	Rect Side	0.50	0.50	0.670	0.000

====> EQUIVALENT PIPE INFORMATION FOR ORIFICE 1
CONDUIT NAME..... rect-orif
Upstream node..... Node458
Downstream node..... MH-33
PIPE DIAMETER..... 0.50
PIPE LENGTH..... 500.00
MANNINGS ROUGHNESS..... 0.0037
INVERT ELEVATION AT UPSTREAM END..... 123.2600
INVERT ELEVATION AT DOWNSTREAM END... 123.2500

Note: For a Bottom-outlet orifice the invert elevation of the downstream node will be
adjusted to accomodate the equivalent conduit. Conduit grades are not affected.

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| Weir Data |
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Weir Name	From Junction	To Junction	Type	Crest Height(ft)	Weir Top(ft)	Weir Length(ft)	Discharge Coefficient	Weir Power
Under HWY 6	B-64	Node755	1	6.75	8.25	50.00	2.6700	1.5000

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| FREE OUTFALL DATA (DATA GROUP I1) |
| BOUNDARY CONDITION ON DATA GROUP J1 |
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Outfall at Junction....B-F65            has boundary condition number...         1
Outfall at Junction....E100-OUT         has boundary condition number...         2
Outfall at Junction....E131-OUT         has boundary condition number...         3
Outfall at Junction....D37              has boundary condition number...         4
Outfall at Junction....D-17             has boundary condition number...         5
Outfall at Junction....Node755          has boundary condition number...         6

===> Warning !!  Outfall Junction B-F65            has two or more connecting conduits.

===> Warning !!  Outfall Junction D-17             has two or more connecting conduits.


*================================================*
|              Weir Outfall Data                 |
|      Boundary Condition on data group J1       |
*================================================*

Weir Outfall at Junction... Node755    has boundary condition number...         6


*================================================*
|       INTERNAL CONNECTIVITY INFORMATION        |
*================================================*

         CONDUIT         JUNCTION         JUNCTION
---------------- ---------------- ----------------
       rect-orif          Node458             MH-33
     Under HWY 6             B-64           Node755
        FREE # 1            B-F65          BOUNDARY
        FREE # 2         E100-OUT          BOUNDARY
        FREE # 3         E131-OUT          BOUNDARY
        FREE # 4              D37          BOUNDARY
        FREE # 5             D-17          BOUNDARY
        FREE # 6          Node755          BOUNDARY

*================================================*
|        Boundary Condition Information          |
|                Data Groups J1-J4               |
*================================================*


BC NUMBER..         1 has no control water surface.

*======================================*
|  Outlet: E100-OUT                    |
|  Downstream Rating Curve Information |
|  for Boundary Condition =     2.     |
*======================================*

 No. Flow(cfs) Depth(ft)  No. Flow(cfs) Depth(ft)  No. Flow(cfs) Depth(ft)
 --- --------- ---------  --- --------- ---------  --- --------- ---------
   1      0.00     0.000    2    280.00     7.270    3    430.00     8.220
   4    500.00     8.570    5    710.00     9.350

*======================================*
|  Outlet: E131-OUT                    |
|  Downstream Rating Curve Information |
|  for Boundary Condition =     3.     |
*======================================*

 No. Flow(cfs) Depth(ft)  No. Flow(cfs) Depth(ft)  No. Flow(cfs) Depth(ft)
 --- --------- ---------  --- --------- ---------  --- --------- ---------
   1      0.00     0.000    2    139.02     3.540    3    175.76     4.150
   4    200.71     4.850    5    298.05     6.520    6    337.72     7.090
   7    470.00     8.540
BC NUMBER..         4 has no control water surface.
BC NUMBER..         5 has no control water surface.
BC NUMBER..         6 has no control water surface.

*================================================*
|             XP Note Field Summary              |
*================================================*




*=====================================================*
|         Table E9 - JUNCTION SUMMARY STATISTICS      |
| The Maximum area is only the area of the node, it   |
| does not include the area of the surrounding conduits|
*=====================================================*

                        Uppermost   Maximum     Time        Feet of             Maximum   Maximum   Maximum   Maximum
                Ground PipeCrown  Junction       of       Surcharge  Freeboard Junction    Gutter    Gutter    Gutter
      Junction  Elevation Elevation Elevation    Occurence    at Max   of node      Area     Depth     Width  Velocity
          Name       feet      feet      feet    Hr. Min.  Elevation      feet      ft^2      feet      feet      ft/s
--------------  ---------  --------  --------  ---------  ---------  --------  -------- --------- --------- ---------
          MH-32   131.9200  126.4900  124.9208     16   21     0.0000    6.9992   12.5660    0.0000    0.0000    0.0000
          MH-13   146.4900  146.3200  129.8478     17    2     0.0000   16.6422   12.5660    0.0000    0.0000    0.0000
          B-F65   128.9100  128.9100  125.5000     15   18     0.0000    3.4100   12.5660    0.0000    0.0000    0.0000
          B-F63   128.9100  128.9100  126.6467     17    6     0.0000    2.2633 52272.000    0.0000    0.0000    0.0000
          MH-33   128.0000  122.6200  126.9974     16   30     4.3774    1.0026   12.5660    0.0000    0.0000    0.0000
           B-65   127.3100  123.0100  127.0084     16   30     3.9984    0.3016   12.5660    0.0000    0.0000    0.0000
       E100-OUT   146.4900  145.6200  128.3896     17    1     0.0000   18.1004   12.5660    0.0000    0.0000    0.0000
       E131-OUT   127.5000  127.5000  124.8276     16   21     0.0000    2.6724   12.5660    0.0000    0.0000    0.0000
        Node458   128.9100  128.3600  126.6467     17    6     0.0000    2.2633   12.5660    0.0000    0.0000    0.0000
           C-15   122.4300  119.2700  120.2182     16   15     0.9482    2.2118   12.5660    0.0000    0.0000    0.0000
            D33   122.7100  119.0700  119.5726     16   15     0.5026    3.1374   12.5660    0.0000    0.0000    0.0000
            D35   123.5700  118.9000  119.0320     16    7     0.1320    4.5380   12.5660    0.0000    0.0000    0.0000
            D32   122.4300  119.1300  120.2553     16   15     1.1253    2.1747   12.5660    0.0000    0.0000    0.0000
            D34   123.0400  119.7900  119.6464     16   15     0.0000    3.3936   12.5660    0.0000    0.0000    0.0000
            D38   123.5000  122.0000  121.0784     16    0     0.0000    2.4216   12.5660    0.0000    0.0000    0.0000
            D36   123.5700  121.0000  119.7472     16   15     0.0000    3.8228   12.5660    0.0000    0.0000    0.0000
            D37   124.2100  118.8500  118.8500     15   59     0.0000    5.3600   12.5660    0.0000    0.0000    0.0000
            A-1   136.8100  136.8100  137.1959     16   31     0.3859    0.0000 3403.0018    0.0000    0.0000    0.0000
           A-10   136.4200  136.0000  137.2717     16   28     1.2717    0.0000 3711.6855    0.0000    0.0000    0.0000
           A-11   137.0700  134.1200  136.8805     16   25     2.7605    0.1895   12.5660    0.0000    0.0000    0.0000
           A-12   136.8000  133.7400  136.8044     15   56     3.0644    0.0000   37.8170    0.0000    0.0000    0.0000
           A-13   135.4200  135.4200  136.0186     16   24     0.5986    0.0000 7202.6885    0.0000    0.0000    0.0000
           A-14   136.4600  133.3600  136.2155     16   21     2.8555    0.2445   12.5660    0.0000    0.0000    0.0000
           A-15   136.1600  133.0200  135.9714     16   19     2.9514    0.1886   12.5660    0.0000    0.0000    0.0000
           A-16   135.8200  132.6300  135.7540     15   56     3.1240    0.0660   12.5660    0.0000    0.0000    0.0000
           A-17   134.3700  131.6700  134.6792     16   20     3.0092    0.0000 2483.6382    0.0000    0.0000    0.0000
           A-18   134.2000  131.0200  133.9735     16   19     2.9535    0.2265   12.5660    0.0000    0.0000    0.0000
           A-19   133.3000  130.4200  133.2203     16   19     2.8003    0.0797   12.5660    0.0000    0.0000    0.0000
            A-2   136.5100  136.5100  137.1506     16   32     0.6406    0.0000 8193.7783    0.0000    0.0000    0.0000
           A-20   132.9500  129.7200  132.2524     16   20     2.5324    0.6976   12.5660    0.0000    0.0000    0.0000
           A-21   134.5000  132.0000  132.8725     16   15     0.8725    1.6275   12.5660    0.0000    0.0000    0.0000
           A-22   132.5000  131.3900  132.2278     16   16     0.8378    0.2722   12.5660    0.0000    0.0000    0.0000
           A-23   133.0000  131.1800  131.1265     16   18     0.0000    1.8735   12.5660    0.0000    0.0000    0.0000
           A-24   134.3000  130.4700  130.8321     17    5     0.3621    3.4679   12.5660    0.0000    0.0000    0.0000
           A-25   134.3100  130.1600  130.8036     17    5     0.6436    3.5064   12.5660    0.0000    0.0000    0.0000
           A-26   133.6400  128.2900  130.7753     17    5     2.4853    2.8647   12.5660    0.0000    0.0000    0.0000
           A-27   132.0700  128.4900  130.9249     17    0     2.4349    1.1451   12.5660    0.0000    0.0000    0.0000
           A-28   131.4700  127.7900  130.3971     16   59     2.6071    1.0729   12.5660    0.0000    0.0000    0.0000
```

A-29	131.1700	127.1400	130.4244	17	0	3.2844	0.7456	12.5660	0.0000	0.0000	0.0000
A-3	136.4500	136.4500	137.0585	16	33	0.6085	0.0000	7431.8569	0.0000	0.0000	0.0000
A-30	130.0000	126.8500	130.7921	17	11	3.9421	0.0000	4141.6262	0.0000	0.0000	0.0000
A-31	130.8700	127.7400	130.5589	17	0	2.8189	0.3111	12.5660	0.0000	0.0000	0.0000
A-32	131.7500	127.6000	130.8777	17	5	3.2777	0.8723	12.5660	0.0000	0.0000	0.0000
A-33	133.5500	127.8900	130.8946	17	5	3.0046	2.6554	12.5660	0.0000	0.0000	0.0000
A-34	130.7700	127.7300	130.7355	16	21	3.0055	0.0345	12.5660	0.0000	0.0000	0.0000
A-35	129.5400	129.5400	130.9716	16	41	1.4316	0.0000	11979.000	0.0000	0.0000	0.0000
A-36	132.0000	127.7700	130.7739	16	21	3.0039	1.2261	12.5660	0.0000	0.0000	0.0000
A-37	131.9000	128.0600	131.1219	16	22	3.0619	0.7781	12.5660	0.0000	0.0000	0.0000
A-38	133.0000	128.3500	131.4674	16	22	3.1174	1.5326	12.5660	0.0000	0.0000	0.0000
A-39	140.0000	139.1800	139.7520	16	27	0.5720	0.2480	12.5660	0.0000	0.0000	0.0000
A-4	136.4500	136.4500	137.0157	16	32	0.5657	0.0000	6528.2265	0.0000	0.0000	0.0000
A-40	140.0000	138.9900	139.7204	16	28	0.7304	0.2796	12.5660	0.0000	0.0000	0.0000
A-41	138.5000	138.5000	139.5929	16	31	1.0929	0.0000	6969.6000	0.0000	0.0000	0.0000
A-42	139.6200	135.2800	139.2934	16	28	4.0134	0.3266	12.5660	0.0000	0.0000	0.0000
A-43	137.5000	134.4000	138.5589	16	29	4.1589	0.0000	5227.2000	0.0000	0.0000	0.0000
A-44	137.0000	133.8500	138.1083	16	30	4.2583	0.0000	5227.2000	0.0000	0.0000	0.0000
A-45	137.8700	137.8700	137.1356	16	39	0.0000	0.7344	12.5660	0.0000	0.0000	0.0000
A-46	136.2700	136.2700	136.4217	16	36	0.1517	0.0000	893.1731	0.0000	0.0000	0.0000
A-47	135.9200	135.9200	135.7528	16	34	0.0000	0.1672	12.5660	0.0000	0.0000	0.0000
A-48	135.2200	131.2800	134.7358	16	36	3.4558	0.4842	12.5660	0.0000	0.0000	0.0000
A-49	137.9700	137.0000	138.7658	16	19	1.7658	0.0000	1001.8800	0.0000	0.0000	0.0000
A-5	136.0700	136.0700	136.7499	16	29	0.6799	0.0000	9127.5026	0.0000	0.0000	0.0000
A-50	137.6000	136.5000	136.5199	16	28	0.0199	1.0801	12.5660	0.0000	0.0000	0.0000
A-51	137.0500	137.0000	138.7195	16	20	1.7195	0.0000	1001.8800	0.0000	0.0000	0.0000
A-52	134.5200	130.6800	133.6183	16	40	2.9383	0.9017	12.5660	0.0000	0.0000	0.0000
A-53	134.5200	129.7900	132.3324	17	9	2.5424	2.1876	12.5660	0.0000	0.0000	0.0000
A-54	134.1700	128.9200	131.5406	17	40	2.6206	2.6294	12.5660	0.0000	0.0000	0.0000
A-55	133.1200	126.2000	131.2272	17	24	5.0272	1.8928	12.5660	0.0000	0.0000	0.0000
A-56	132.0000	130.7300	133.6688	16	33	2.9388	0.0000	5227.2000	0.0000	0.0000	0.0000
A-57	132.0000	129.8600	132.3438	17	9	2.4838	0.0000	1800.0833	0.0000	0.0000	0.0000
A-58	132.0000	128.5000	131.5434	17	40	3.0434	0.4566	12.5660	0.0000	0.0000	0.0000
A-59	134.6500	128.4800	131.3647	17	30	2.8847	3.2853	12.5660	0.0000	0.0000	0.0000
A-6	138.2900	138.2900	137.9855	16	23	0.0000	0.3045	12.5660	0.0000	0.0000	0.0000
A-60	131.0000	127.0500	131.1467	17	24	4.0967	0.0000	534.1009	0.0000	0.0000	0.0000
A-61	132.5900	127.6900	131.1067	17	49	3.4167	1.4833	12.5660	0.0000	0.0000	0.0000
A-62	131.0200	129.0000	131.1267	18	9	2.1267	0.0000	629.2218	0.0000	0.0000	0.0000
A-63	132.0700	128.1200	131.1175	18	11	2.9975	0.9525	31493.880	0.0000	0.0000	0.0000
A-7	139.0000	137.9800	137.8663	16	26	0.0000	1.1337	12.5660	0.0000	0.0000	0.0000
A-8	137.5000	137.0000	137.8306	16	27	0.8306	0.0000	1923.2551	0.0000	0.0000	0.0000
A-9	139.0000	137.5000	137.4743	16	27	0.0000	1.5257	12.5660	0.0000	0.0000	0.0000
B-1	130.6700	130.6700	127.7824	16	15	0.0000	2.8876	12.5660	0.0000	0.0000	0.0000
B-10	127.5000	126.5000	129.8202	16	30	3.3202	0.0000	4356.0000	0.0000	0.0000	0.0000
B-11	129.9100	126.0000	128.8738	16	29	2.8738	1.0362	12.5660	0.0000	0.0000	0.0000
B-12	127.8900	127.8900	128.7005	16	29	0.8105	0.0000	5183.6400	0.0000	0.0000	0.0000
B-13	134.1300	124.3100	128.8826	16	27	4.5726	5.2474	12.5660	0.0000	0.0000	0.0000
B-14	131.6200	123.0100	127.7461	16	24	4.7361	3.8739	12.5660	0.0000	0.0000	0.0000
B-15	129.7700	121.7200	125.8093	16	17	4.0893	3.9607	12.5660	0.0000	0.0000	0.0000
B-16	128.2700	124.2700	125.6409	16	15	1.3709	2.6291	12.5660	0.0000	0.0000	0.0000
B-17	127.7200	123.9800	125.6336	16	15	1.6536	2.0864	12.5660	0.0000	0.0000	0.0000
B-18	127.1900	123.7100	125.6029	16	15	1.8929	1.5871	12.5660	0.0000	0.0000	0.0000
B-19	126.6400	123.4400	125.5818	16	15	2.1418	1.0582	12.5660	0.0000	0.0000	0.0000
B-2	129.7500	129.7500	127.4392	16	15	0.0000	2.3108	12.5660	0.0000	0.0000	0.0000
B-20	126.3600	123.3200	125.5748	16	15	2.2548	0.7852	12.5660	0.0000	0.0000	0.0000
B-21	126.8100	123.1100	125.5470	16	15	2.4370	1.2630	12.5660	0.0000	0.0000	0.0000
B-22	126.8300	122.5600	125.4394	16	15	2.8794	1.3906	12.5660	0.0000	0.0000	0.0000
B-23	126.3600	122.3600	125.4151	16	15	3.0551	0.9449	12.5660	0.0000	0.0000	0.0000
B-24	126.1100	122.1600	125.3885	16	17	3.2285	0.7215	12.5660	0.0000	0.0000	0.0000
B-25	126.4400	122.0800	125.3737	16	17	3.2937	1.0663	12.5660	0.0000	0.0000	0.0000
B-26	126.0000	122.3500	125.4679	16	17	3.1179	0.5321	12.5660	0.0000	0.0000	0.0000
B-27	126.6800	121.8300	125.3058	16	18	3.4758	1.3742	12.5660	0.0000	0.0000	0.0000
B-28	128.8000	121.5200	125.7244	16	19	3.6044	3.5756	12.5660	0.0000	0.0000	0.0000
B-29	129.7900	121.5300	125.2368	16	21	3.7068	4.5532	12.5660	0.0000	0.0000	0.0000
B-3	127.3000	127.3000	126.5725	16	15	0.0000	0.7275	12.5660	0.0000	0.0000	0.0000
B-30	129.7900	121.9300	125.5679	16	23	3.6379	4.2221	12.5660	0.0000	0.0000	0.0000
B-31	129.0000	121.9000	125.1903	16	21	3.2903	3.8097	12.5660	0.0000	0.0000	0.0000
B-32	127.2800	122.3800	125.8157	16	26	3.4357	1.4643	12.5660	0.0000	0.0000	0.0000
B-33	129.0000	123.2400	125.4458	16	16	2.2058	3.5542	12.5660	0.0000	0.0000	0.0000
B-34	129.9000	121.4500	125.6168	16	21	4.1668	4.2832	12.5660	0.0000	0.0000	0.0000
B-35	131.0200	122.5500	125.5370	16	15	2.9870	5.4830	12.5660	0.0000	0.0000	0.0000
B-36	126.1100	123.0200	126.2871	16	33	3.2671	0.0000	1041.9945	0.0000	0.0000	0.0000
B-37	129.5800	124.9100	125.6930	15	56	0.7830	3.8870	12.5660	0.0000	0.0000	0.0000
B-38	130.1500	129.2300	125.8666	16	22	0.0000	4.2834	12.5660	0.0000	0.0000	0.0000
B-39	128.0000	128.0000	125.9658	16	22	0.0000	2.0342	12.5660	0.0000	0.0000	0.0000
B-4	129.3900	129.3900	130.1690	16	37	0.7790	0.0000	11480.750	0.0000	0.0000	0.0000
B-40	129.5000	128.5300	125.9977	16	22	0.0000	3.5023	12.5660	0.0000	0.0000	0.0000
B-41	128.1800	128.1800	126.1188	16	22	0.0000	2.0612	12.5660	0.0000	0.0000	0.0000
B-42	127.4800	127.4800	126.1432	16	22	0.0000	1.3368	12.5660	0.0000	0.0000	0.0000
B-43	126.5000	124.5000	126.6278	16	15	2.1278	0.0000	671.8383	0.0000	0.0000	0.0000
B-44	127.0300	122.2600	126.1582	16	22	3.8982	0.8718	12.5660	0.0000	0.0000	0.0000
B-45	126.1300	122.9000	126.1695	16	22	3.2595	0.0000	183.2150	0.0000	0.0000	0.0000
B-46	125.0000	123.0000	126.3166	16	20	3.3166	0.0000	4356.0000	0.0000	0.0000	0.0000
B-47	126.8300	122.1200	126.2883	16	24	4.1683	0.5417	12.5660	0.0000	0.0000	0.0000
B-48	147.4500	123.9500	127.1364	16	38	3.1864	20.3136	12.5660	0.0000	0.0000	0.0000
B-49	143.5300	124.7100	127.1406	16	33	2.4306	16.3894	12.5660	0.0000	0.0000	0.0000
B-5	130.5000	129.5600	130.1632	16	37	0.6032	0.3368	12.5660	0.0000	0.0000	0.0000
B-50	136.5200	123.7000	127.0406	16	30	3.3406	9.4794	12.5660	0.0000	0.0000	0.0000
B-51	130.5500	124.6500	126.8809	16	27	2.2309	3.6691	12.5660	0.0000	0.0000	0.0000
B-52	128.8700	125.8800	126.6445	16	24	0.7645	2.2255	12.5660	0.0000	0.0000	0.0000
B-53	128.0700	125.0900	126.4006	16	24	1.3106	1.6694	12.5660	0.0000	0.0000	0.0000
B-54	126.7300	124.5000	126.8142	16	31	2.3142	0.0000	5439.4265	0.0000	0.0000	0.0000
B-55	125.7800	123.5000	126.9677	16	32	3.4677	0.0000	11979.000	0.0000	0.0000	0.0000
B-56	127.0000	122.6900	127.0509	16	34	4.3609	0.0000	5260.8327	0.0000	0.0000	0.0000
B-57	125.8200	123.7500	127.1212	16	39	3.3712	0.0000	11979.000	0.0000	0.0000	0.0000
B-58	127.0000	126.0000	127.1380	16	39	1.1380	0.0000	19602.000	0.0000	0.0000	0.0000
B-59	127.0000	125.5400	127.1395	16	40	1.5995	0.0000	1137.9378	0.0000	0.0000	0.0000
B-6	131.2900	125.0900	129.2887	16	20	4.1987	2.0013	12.5660	0.0000	0.0000	0.0000
B-60	125.0900	125.0900	127.1421	16	40	2.0521	0.0000	37026.000	0.0000	0.0000	0.0000
B-61	125.7100	123.0000	127.1419	16	40	4.1419	0.0000	8276.4000	0.0000	0.0000	0.0000
B-62	125.1400	122.7400	127.1390	16	41	4.3990	0.0000	9147.6000	0.0000	0.0000	0.0000
B-63	126.0000	122.8700	127.1262	16	40	4.2562	0.0000	9147.6000	0.0000	0.0000	0.0000
B-64	125.5000	122.7500	126.9819	16	33	4.2319	0.0000	9296.9876	0.0000	0.0000	0.0000
B-7	130.3200	128.3100	129.6714	16	15	1.3614	0.6486	12.5660	0.0000	0.0000	0.0000
B-8	131.0200	128.1100	129.4737	16	15	1.3637	1.5463	12.5660	0.0000	0.0000	0.0000
B-9	128.5000	127.5000	128.9817	16	28	1.4817	0.0000	2100.4072	0.0000	0.0000	0.0000
C-1	125.5800	125.5800	126.3522	16	37	0.7722	0.0000	11319.693	0.0000	0.0000	0.0000
C-10	124.5000	121.3600	121.9994	16	15	0.6394	2.5006	12.5660	0.0000	0.0000	0.0000
C-11	124.5000	120.3600	122.0416	16	15	1.6816	2.4584	12.5660	0.0000	0.0000	0.0000
C-12	124.5000	120.8600	121.2671	16	15	0.4071	3.2329	12.5660	0.0000	0.0000	0.0000
C-13	125.2700	119.8100	120.6848	16	15	0.8748	4.5852	12.5660	0.0000	0.0000	0.0000
C-14	125.2700	120.2000	120.4085	16	15	0.2085	4.8615	12.5660	0.0000	0.0000	0.0000
C-2	125.0900	123.0000	126.3958	16	38	3.3958	0.0000	11979.000	0.0000	0.0000	0.0000
C-3	125.3000	122.5000	123.8779	16	15	1.3779	1.4221	12.5660	0.0000	0.0000	0.0000
C-4	124.5000	122.9200	123.9885	16	15	1.0685	0.5115	12.5660	0.0000	0.0000	0.0000
C-5	124.5000	121.6000	123.3909	16	15	1.7909	1.1091	12.5660	0.0000	0.0000	0.0000
C-6	124.5000	121.9000	122.4031	16	16	0.5031	2.0969	12.5660	0.0000	0.0000	0.0000
C-7	126.5000	121.3600	123.2424	16	15	1.8824	3.2576	12.5660	0.0000	0.0000	0.0000
C-8	126.5000	121.7000	122.2726	16	16	0.5726	4.2274	12.5660	0.0000	0.0000	0.0000
C-9	124.5000	120.9600	122.8336	16	15	1.8736	1.6664	12.5660	0.0000	0.0000	0.0000
D-1	127.4000	124.5700	124.0845	16	16	0.0000	3.3155	12.5660	0.0000	0.0000	0.0000
D-10	128.3700	123.2100	122.6090	16	16	0.0000	5.7610	12.5660	0.0000	0.0000	0.0000
D-11	128.6500	120.4200	120.4453	16	0	0.0253	8.2047	12.5660	0.0000	0.0000	0.0000
D-12	128.1800	122.9800	122.2531	16	16	0.0000	5.9269	12.5660	0.0000	0.0000	0.0000
D-13	128.2500	120.3300	120.3900	15	59	0.0600	7.8600	12.5660	0.0000	0.0000	0.0000
D-14	127.9400	122.6900	121.5772	16	15	0.0000	6.3628	12.5660	0.0000	0.0000	0.0000
D-15	127.9400	122.6000	120.3288	16	0	0.0000	7.6112	12.5660	0.0000	0.0000	0.0000
D-16	127.0700	123.5700	122.3010	16	0	0.0000	4.7690	12.5660	0.0000	0.0000	0.0000

D-17	127.0700	123.3600	120.1900	15	54	0.0000	6.8800	12.5660	0.0000	0.0000	0.0000
D-2	127.2000	124.3700	123.8918	16	16	0.0000	3.3082	12.5660	0.0000	0.0000	0.0000
D-3	125.6000	122.5200	120.8359	15	59	0.0000	4.7641	12.5660	0.0000	0.0000	0.0000
D-4	127.0000	124.0000	123.1221	16	16	0.0000	3.8779	12.5660	0.0000	0.0000	0.0000
D-5	126.8500	122.2200	120.6970	15	59	0.0000	6.1530	12.5660	0.0000	0.0000	0.0000
D-6	126.6400	123.6600	123.0059	16	16	0.0000	3.6341	12.5660	0.0000	0.0000	0.0000
D-7	126.7700	121.8800	120.5416	16	0	0.0000	6.2284	12.5660	0.0000	0.0000	0.0000
D-8	126.5100	123.4600	122.8650	16	16	0.0000	3.6450	12.5660	0.0000	0.0000	0.0000
D-9	128.8800	120.5200	120.5079	16	0	0.0000	8.3721	12.5660	0.0000	0.0000	0.0000
EX-1	138.3300	137.3600	137.1959	16	31	0.0000	1.1341	12.5660	0.0000	0.0000	0.0000
EX-10	133.2000	130.9400	131.0068	16	18	0.0668	2.1932	12.5660	0.0000	0.0000	0.0000
EX-11	134.2600	130.3300	130.8202	17	5	0.4902	3.4398	12.5660	0.0000	0.0000	0.0000
EX-12	133.7500	130.0600	130.7918	17	5	0.7318	2.9582	12.5660	0.0000	0.0000	0.0000
EX-13	132.8700	126.0000	130.7503	17	5	4.7503	2.1197	12.5660	0.0000	0.0000	0.0000
EX-14	132.6700	126.8400	130.7466	17	5	3.9066	1.9234	12.5660	0.0000	0.0000	0.0000
EX-15	134.4000	126.9500	130.9718	17	16	4.0218	3.4282	12.5660	0.0000	0.0000	0.0000
EX-16	135.4500	128.1500	130.8706	17	5	2.7206	4.5794	12.5660	0.0000	0.0000	0.0000
EX-17	137.3100	127.6900	130.9115	17	5	3.2215	6.3985	12.5660	0.0000	0.0000	0.0000
EX-18	132.5800	127.8500	130.8635	17	11	3.0135	1.7165	12.5660	0.0000	0.0000	0.0000
EX-19	132.8700	127.1500	130.8419	17	11	3.6919	2.0281	12.5660	0.0000	0.0000	0.0000
EX-2	137.6700	137.3000	137.1898	16	31	0.0000	0.4802	12.5660	0.0000	0.0000	0.0000
EX-20	135.0300	128.0500	130.9000	17	5	2.8500	4.1300	12.5660	0.0000	0.0000	0.0000
EX-3	137.5200	136.9700	137.1355	16	32	0.1655	0.3845	12.5660	0.0000	0.0000	0.0000
EX-4	137.5200	137.0500	137.0643	16	33	0.0143	0.4557	12.5660	0.0000	0.0000	0.0000
EX-5	137.2200	136.9200	137.0416	16	32	0.1216	0.1784	12.5660	0.0000	0.0000	0.0000
EX-6	137.2200	134.1100	136.9437	16	33	2.8337	0.2763	12.5660	0.0000	0.0000	0.0000
EX-7	137.1400	133.7500	136.6496	16	28	2.8996	0.4904	12.5660	0.0000	0.0000	0.0000
EX-8	137.1400	133.5900	136.4978	16	26	2.9078	0.6422	12.5660	0.0000	0.0000	0.0000
EX-9	134.0000	131.5100	131.2144	16	18	0.0000	2.7856	12.5660	0.0000	0.0000	0.0000
MH-1	137.6200	137.5000	137.0121	16	33	0.0000	0.6079	12.5660	0.0000	0.0000	0.0000
MH-10	138.0000	136.9900	136.2760	16	34	0.0000	1.7240	12.5660	0.0000	0.0000	0.0000
MH-11	133.3600	128.0900	131.2294	17	24	3.1394	2.1306	12.5660	0.0000	0.0000	0.0000
MH-12	133.6800	126.9700	131.1446	17	33	4.1746	2.5354	12.5660	0.0000	0.0000	0.0000
MH-14	131.0000	129.8000	126.2208	16	15	0.0000	4.7792	12.5660	0.0000	0.0000	0.0000
MH-15	129.5000	123.4100	126.0495	16	22	2.6395	3.4505	12.5660	0.0000	0.0000	0.0000
MH-16	126.3700	122.0200	126.1614	16	21	4.1414	0.2086	12.5660	0.0000	0.0000	0.0000
MH-17	130.5500	127.3200	128.8794	16	29	1.5594	1.6706	12.5660	0.0000	0.0000	0.0000
MH-18	130.0000	125.9500	128.8219	16	29	2.8719	1.1781	12.5660	0.0000	0.0000	0.0000
MH-19	129.1000	128.9700	128.7001	16	29	0.0000	0.3999	12.5660	0.0000	0.0000	0.0000
MH-2	137.2200	136.3000	136.7840	16	29	0.4840	0.4360	12.5660	0.0000	0.0000	0.0000
MH-20	128.3600	123.9500	128.5474	16	28	4.5974	0.0000	12.5660	0.0000	0.0000	0.0000
MH-21	133.7600	123.4600	128.1199	16	27	4.6599	5.6401	12.5660	0.0000	0.0000	0.0000
MH-22	133.3800	127.8400	127.5204	16	26	4.6804	5.8596	12.5660	0.0000	0.0000	0.0000
MH-23	127.0000	122.2300	126.5330	16	24	4.3030	0.4670	12.5660	0.0000	0.0000	0.0000
MH-24	129.6500	121.5200	125.3756	16	21	3.8556	4.2744	12.5660	0.0000	0.0000	0.0000
MH-25	126.8500	122.9400	125.5159	16	15	2.5759	1.3341	12.5660	0.0000	0.0000	0.0000
MH-26	126.9600	121.7600	125.2777	16	18	3.5177	1.6823	12.5660	0.0000	0.0000	0.0000
MH-27	130.2100	121.4000	125.1907	16	20	3.7907	5.0193	12.5660	0.0000	0.0000	0.0000
MH-28	130.4500	121.8800	125.1611	16	21	3.2811	5.2889	12.5660	0.0000	0.0000	0.0000
MH-29	130.0900	121.8500	125.1655	16	21	3.3155	4.9245	12.5660	0.0000	0.0000	0.0000
MH-3	137.1400	135.8600	136.0812	16	24	0.2212	1.0588	12.5660	0.0000	0.0000	0.0000
MH-30	130.8500	122.3000	125.4190	16	17	3.1190	5.4310	12.5660	0.0000	0.0000	0.0000
MH-31	129.8300	121.3800	125.2191	16	20	3.8391	4.6109	12.5660	0.0000	0.0000	0.0000
MH-34	127.9000	122.8400	126.9906	16	32	4.1506	0.9094	12.5660	0.0000	0.0000	0.0000
MH-35	125.8000	123.0800	127.0588	16	38	3.9788	0.0000	6098.4000	0.0000	0.0000	0.0000
MH-36	125.5000	122.7800	127.1351	16	40	4.3551	0.0000	9147.6000	0.0000	0.0000	0.0000
MH-37	127.2000	123.1800	127.1351	16	39	3.9551	0.0649	12.5660	0.0000	0.0000	0.0000
MH-38	127.0000	123.1000	127.1265	16	39	4.0265	0.0000	12.5660	0.0000	0.0000	0.0000
MH-39	127.0000	122.9300	127.0975	16	37	4.1675	0.0000	8712.0000	0.0000	0.0000	0.0000
MH-4	136.7900	132.8600	135.8270	16	23	2.9670	0.9630	12.5660	0.0000	0.0000	0.0000
MH-40	127.5000	124.5000	127.0702	16	35	2.5702	0.4298	7840.8000	0.0000	0.0000	0.0000
MH-41	127.0600	125.0000	126.3704	16	25	1.3704	0.6896	12.5660	0.0000	0.0000	0.0000
MH-42	127.7500	125.7500	126.5677	16	27	0.8177	1.1823	12.5660	0.0000	0.0000	0.0000
MH-43	128.6300	120.4100	120.4380	16	0	0.0280	8.1920	12.5660	0.0000	0.0000	0.0000
MH-44	128.5400	120.3900	120.4188	16	0	0.0288	8.1212	12.5660	0.0000	0.0000	0.0000
MH-5	136.7900	132.4700	135.4000	16	21	2.9300	1.3900	12.5660	0.0000	0.0000	0.0000
MH-6	131.7900	131.1100	130.9194	16	42	0.0000	0.8706	12.5660	0.0000	0.0000	0.0000
MH-7	131.5000	127.4700	130.6387	17	0	3.1687	0.8613	12.5660	0.0000	0.0000	0.0000
MH-8	131.9900	127.4400	130.4916	17	0	3.0516	1.4984	12.5660	0.0000	0.0000	0.0000
MH-9	139.6600	133.7900	138.0330	16	31	4.2430	1.6270	12.5660	0.0000	0.0000	0.0000
E-8	135.7700	129.4000	131.7315	17	43	2.3315	4.0385	12.5660	0.0000	0.0000	0.0000
Node755	128.0000	126.5000	126.5000	0	0	0.0000	1.5000	12.5660	0.0000	0.0000	0.0000
E131-Pond	128.0000	126.1800	125.2841	18	15	0.0000	2.7159	470735.76	0.0000	0.0000	0.0000
E-10	128.0000	125.7700	125.2553	18	8	0.0000	2.7447	12.5660	0.0000	0.0000	0.0000
E-13	129.5000	125.3500	125.5870	16	22	0.2370	3.9130	12.5660	0.0000	0.0000	0.0000
E-12	130.0000	125.4800	125.2461	18	8	0.0000	4.7539	12.5660	0.0000	0.0000	0.0000
E-11	128.0000	125.6500	125.2514	18	8	0.0000	2.7486	12.5660	0.0000	0.0000	0.0000
E-7	132.0000	129.6600	131.8105	17	46	2.1505	0.1895	12.5660	0.0000	0.0000	0.0000
E-1	132.0000	128.7100	131.8188	17	46	3.1088	0.1812	12.5660	0.0000	0.0000	0.0000
E-2	132.0000	128.7100	131.8151	17	46	3.1051	0.1849	12.5660	0.0000	0.0000	0.0000
E100-Pond	132.0000	129.7400	131.8114	17	46	2.0714	0.1886	360119.10	0.0000	0.0000	0.0000
MH-45	126.5000	126.0000	126.3364	16	36	0.3364	0.1636	12.5660	0.0000	0.0000	0.0000
E-9	128.0000	126.0800	125.2658	18	10	0.0000	2.7342	12.5660	0.0000	0.0000	0.0000
E-3	128.0000	125.8340	125.2857	18	15	0.0000	2.7143	12.5660	0.0000	0.0000	0.0000
E-4	128.0000	125.8340	125.2860	18	15	0.0000	2.7140	12.5660	0.0000	0.0000	0.0000
E-6	128.0000	126.2640	125.2856	18	15	0.0000	2.7144	12.5660	0.0000	0.0000	0.0000

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*========================================*
|     Time History of Flow and Velocity     |
|    Q(cfs), Vel(ft/s), Total(cubic feet)   |
*========================================*
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Conduit:E131

Hr:Mn:Sc	Flow	Velocity	X-Area	H-Radius	Up HGL	Down HGL	Up Node	Down Node	Volume
0 0 1	0.0000	0.0000	1.0000E-05	1.0000E-05	117.8	116.8	117.8	116.8	0.0000
0 8 21	0.0000	0.0000	1.0000E-05	1.0000E-05	117.8	116.8	117.8	116.8	0.0000
0 16 41	0.0000	0.0000	1.0000E-05	1.0000E-05	117.8	116.8	117.8	116.8	0.0000
0 25 1	0.0000	0.0000	1.0000E-05	1.0000E-05	117.8	116.8	117.8	116.8	0.0000
0 33 21	0.0000	0.0000	1.0000E-05	1.0000E-05	117.8	116.8	117.8	116.8	0.0000
0 41 41	0.0000	0.0000	1.0000E-05	1.0000E-05	117.8	116.8	117.8	116.8	0.0000
0 50 1	0.0000	0.0000	1.0000E-05	1.0000E-05	117.8	116.8	117.8	116.8	0.0000
0 58 21	0.0000	0.0000	1.0000E-05	1.0000E-05	117.8	116.8	117.8	116.8	0.0000
1 6 41	0.0000	0.0000	1.0000E-05	1.0000E-05	117.8	116.8	117.8	116.8	0.0000
1 15 1	0.0000	0.0000	1.0000E-05	1.0000E-05	117.8	116.8	117.8	116.8	0.0000
1 23 21	0.0000	0.0000	1.0000E-05	1.0000E-05	117.8	116.8	117.8	116.8	0.0000
1 31 41	0.0000	0.0000	1.0000E-05	1.0000E-05	117.8	116.8	117.8	116.8	0.0000
1 40 1	0.0000	0.0000	1.0000E-05	1.0000E-05	117.8	116.8	117.8	116.8	0.0000
1 48 21	0.0000	0.0000	1.0000E-05	1.0000E-05	117.8	116.8	117.8	116.8	0.0000
1 56 41	0.0000	0.0000	1.0000E-05	1.0000E-05	117.8	116.8	117.8	116.8	0.0000
2 5 1	0.0000	0.0000	1.0000E-05	1.0000E-05	117.8	116.8	117.8	116.8	0.0000
2 13 21	0.0000	0.0000	1.0000E-05	1.0000E-05	117.8	116.8	117.8	116.8	0.0000
2 21 41	0.0000	0.0000	1.0000E-05	1.0000E-05	117.8	116.8	117.8	116.8	0.0000
2 30 1	0.0000	0.0000	1.0000E-05	1.0000E-05	117.8	116.8	117.8	116.8	0.0000
2 38 21	0.0000	0.0000	1.0000E-05	1.0000E-05	117.8	116.8	117.8	116.8	0.0000
2 46 41	0.0000	0.0000	1.0000E-05	1.0000E-05	117.8	116.8	117.8	116.8	0.0000
2 55 1	0.0000	0.0000	1.0000E-05	1.0000E-05	117.8	116.8	117.8	116.8	0.0000
3 3 21	0.0000	0.0000	1.0000E-05	1.0000E-05	117.8	116.8	117.8	116.8	0.0000
3 11 41	0.0000	0.0000	1.0000E-05	1.0000E-05	117.8	116.8	117.8	116.8	0.0000
3 20 1	0.0000	0.0000	1.0000E-05	1.0000E-05	117.8	116.8	117.8	116.8	0.0000
3 28 21	0.0000	0.0000	1.0000E-05	1.0000E-05	117.8	116.8	117.8	116.8	0.0000
3 36 41	0.0000	0.0000	1.0000E-05	1.0000E-05	117.8	116.8	117.8	116.8	0.0000
3 45 1	0.0000	0.0000	1.0000E-05	1.0000E-05	117.8	116.8	117.8	116.8	0.0000
3 53 21	0.0000	0.0000	1.0000E-05	1.0000E-05	117.8	116.8	117.8	116.8	0.0000
4 1 41	0.0000	0.0000	1.0000E-05	1.0000E-05	117.8	116.8	117.8	116.8	0.0000
4 10 1	0.0000	0.0000	1.0000E-05	1.0000E-05	117.8	116.8	117.8	116.8	0.0000

4	18	21	0.0000	0.0000	1.0000E-05	1.0000E-05	117.8	116.8	117.8	116.8	0.0000
4	26	41	0.0000	0.0000	1.0000E-05	1.0000E-05	117.8	116.8	117.8	116.8	0.0000
4	35	1	0.0000	0.0000	1.0000E-05	1.0000E-05	117.8	116.8	117.8	116.8	0.0000
4	43	21	0.0000	0.0000	1.0000E-05	1.0000E-05	117.8	116.8	117.8	116.8	0.0000
4	51	41	0.0000	0.0000	1.0000E-05	1.0000E-05	117.8	116.8	117.8	116.8	0.0000
5	0	1	0.0000	0.0000	1.0000E-05	1.0000E-05	117.8	116.8	117.8	116.8	0.0000
5	8	21	0.0000	0.0000	1.0000E-05	1.0000E-05	117.8	116.8	117.8	116.8	0.0000
5	16	41	0.0000	0.0000	1.0000E-05	1.0000E-05	117.8	116.8	117.8	116.8	0.0000
5	25	1	0.0000	0.0000	1.0000E-05	1.0000E-05	117.8	116.8	117.8	116.8	0.0000
5	33	21	0.0000	0.0000	1.0000E-05	1.0000E-05	117.8	116.8	117.8	116.8	0.0000
5	41	41	0.0000	0.0000	1.0000E-05	1.0000E-05	117.8	116.8	117.8	116.8	0.0000
5	50	1	0.0000	0.0000	1.0000E-05	1.0000E-05	117.8	116.8	117.8	116.8	0.0000
5	58	21	0.0000	0.0000	1.0000E-05	1.0000E-05	117.8	116.8	117.8	116.8	0.0000
6	6	41	0.0000	0.0000	1.0000E-05	1.0000E-05	117.8	116.8	117.8	116.8	0.0000
6	15	1	0.0000	0.0000	1.0000E-05	1.0000E-05	117.8	116.8	117.8	116.8	0.0000
6	23	21	0.0000	0.0000	1.0000E-05	1.0000E-05	117.8	116.8	117.8	116.8	0.0000
6	31	41	0.0000	0.0000	1.0000E-05	1.0000E-05	117.8	116.8	117.8	116.8	0.0000
6	40	1	0.0000	0.0000	1.0000E-05	1.0000E-05	117.8	116.8	117.8	116.8	0.0000
6	48	21	0.0000	0.0000	1.0000E-05	1.0000E-05	117.8	116.8	117.8	116.8	0.0000
6	56	41	0.0000	0.0000	1.0000E-05	1.0000E-05	117.8	116.8	117.8	116.8	0.0000
7	5	1	0.0000	0.0000	1.0000E-05	1.0000E-05	117.8	116.8	117.8	116.8	0.0000
7	13	21	0.0000	0.0000	1.0000E-05	1.0000E-05	117.8	116.8	117.8	116.8	0.0000
7	21	41	0.0000	0.0000	1.0000E-05	1.0000E-05	117.8	116.8	117.8	116.8	0.0000
7	30	1	0.0000	0.0000	1.0000E-05	1.0000E-05	117.8	116.8	117.8	116.8	0.0000
7	38	21	0.0000	0.0000	1.0000E-05	1.0000E-05	117.8	116.8	117.8	116.8	0.0000
7	46	41	0.0000	0.0000	1.0000E-05	1.0000E-05	117.8	116.8	117.8	116.8	0.0000
7	55	1	0.0000	0.0000	1.0000E-05	1.0000E-05	117.8	116.8	117.8	116.8	0.0000
8	3	21	0.0000	0.0000	1.0000E-05	1.0000E-05	117.8	116.8	117.8	116.8	0.0000
8	11	41	0.0000	0.0000	1.0000E-05	1.0000E-05	117.8	116.8	117.8	116.8	0.0000
8	20	1	0.0000	0.0000	1.0000E-05	1.0000E-05	117.8	116.8	117.8	116.8	0.0000
8	28	21	0.0000	0.0000	1.0000E-05	1.0000E-05	117.8	116.8	117.8	116.8	0.0000
8	36	41	0.0000	0.0000	1.0000E-05	1.0000E-05	117.8	116.8	117.8	116.8	0.0000
8	45	1	0.0000	0.0000	1.0000E-05	1.0000E-05	117.8	116.8	117.8	116.8	0.0000
8	53	21	0.0000	0.0000	1.0000E-05	1.0000E-05	117.8	116.8	117.8	116.8	0.0000
9	1	41	0.0000	0.0000	1.0000E-05	1.0000E-05	117.8	116.8	117.8	116.8	0.0000
9	10	1	0.0000	0.0000	1.0000E-05	1.0000E-05	117.8	116.8	117.8	116.8	0.0000
9	18	21	0.0000	0.0000	1.0000E-05	1.0000E-05	117.8	116.8	117.8	116.8	0.0000
9	26	41	0.0000	0.0000	1.0000E-05	1.0000E-05	117.8	116.8	117.8	116.8	0.0000
9	35	1	0.0000	0.0000	1.0000E-05	1.0000E-05	117.8	116.8	117.8	116.8	0.0000
9	43	21	0.0000	0.0000	1.0000E-05	1.0000E-05	117.8	116.8	117.8	116.8	0.0000
9	51	41	0.0000	0.0000	1.0000E-05	1.0000E-05	117.8	116.8	117.8	116.8	0.0000
10	0	1	0.0000	0.0000	1.0000E-05	1.0000E-05	117.8	116.8	117.8	116.8	0.0000
10	8	21	0.0000	0.0000	1.0000E-05	1.0000E-05	117.8	116.8	117.8	116.8	0.0000
10	16	41	0.0000	0.0000	1.0000E-05	1.0000E-05	117.8	116.8	117.8	116.8	0.0000
10	25	1	0.0000	0.0000	1.0000E-05	1.0000E-05	117.8	116.8	117.8	116.8	0.0000
10	33	21	0.0000	0.0000	1.0000E-05	1.0000E-05	117.8	116.8	117.8	116.8	0.0000
10	41	41	0.0000	0.0000	1.0000E-05	1.0000E-05	117.8	116.8	117.8	116.8	0.0000
10	50	1	0.0000	0.0000	1.0000E-05	1.0000E-05	117.8	116.8	117.8	116.8	0.0000
10	58	21	0.0000	0.0000	1.0000E-05	1.0000E-05	117.8	116.8	117.8	116.8	0.0000
11	6	41	0.0000	0.0000	1.0000E-05	1.0000E-05	117.8	116.8	117.8	116.8	0.0000
11	15	1	0.0000	0.0000	1.0000E-05	1.0000E-05	117.8	116.8	117.8	116.8	0.0000
11	23	21	0.0000	0.0000	1.0000E-05	1.0000E-05	117.8	116.8	117.8	116.8	0.0000
11	31	41	0.0000	0.0000	1.0000E-05	1.0000E-05	117.8	116.8	117.8	116.8	0.0000
11	40	1	0.0000	0.0000	1.0000E-05	1.0000E-05	117.8	116.8	117.8	116.8	0.0000
11	48	21	0.0000	0.0000	1.0000E-05	1.0000E-05	117.8	116.8	117.8	116.8	0.0000
11	56	41	0.0000	0.0000	1.0000E-05	1.0000E-05	117.8	116.8	117.8	116.8	0.0000
12	5	1	0.0000	0.0000	1.0000E-05	1.0000E-05	117.8	116.8	117.8	116.8	0.0000
12	13	21	0.0000	0.0000	1.0000E-05	1.0000E-05	117.8	116.8	117.8	116.8	0.0000
12	21	41	0.0000	0.0000	1.0000E-05	1.0000E-05	117.8	116.8	117.8	116.8	0.0000
12	30	1	0.0000	0.0000	1.0000E-05	1.0000E-05	117.8	116.8	117.8	116.8	0.0000
12	38	21	0.0000	0.0000	1.0000E-05	1.0000E-05	117.8	116.8	117.8	116.8	0.0000
12	46	41	0.0000	0.0000	1.0000E-05	1.0000E-05	117.8	116.8	117.8	116.8	0.0000
12	55	1	0.0000	0.0000	1.0000E-05	1.0000E-05	117.8	116.8	117.8	116.8	0.0000
13	3	21	0.0000	0.0000	1.0000E-05	1.0000E-05	117.8	116.8	117.8	116.8	0.0000
13	11	41	0.0000	0.0000	1.0000E-05	1.0000E-05	117.8	116.8	117.8	116.8	0.0000
13	20	1	0.0000	0.0000	1.0000E-05	1.0000E-05	117.8	116.8	117.8	116.8	0.0000
13	28	21	0.0000	0.0000	1.0000E-05	1.0000E-05	117.8	116.8	117.8	116.8	0.0000
13	36	41	0.0000	0.0000	1.0000E-05	1.0000E-05	117.8	116.8	117.8	116.8	0.0000
13	45	1	0.0000	0.0000	2.9944E-03	5.2260E-04	117.8	116.9	117.8	116.9	5.0327E-02
13	53	21	0.0000	0.0000	6.6902E-02	1.1652E-02	117.8	117.1	117.8	117.1	24.76
14	1	41	0.0000	0.0000	0.2462	2.7040E-02	117.8	117.4	117.8	117.4	211.0
14	10	1	0.0000	0.0000	0.5396	4.3283E-02	117.8	117.7	117.8	117.7	718.4
14	18	21	-1.469	-0.1865	7.877	0.5423	117.9	117.9	117.9	117.9	1553.
14	26	41	-4.337	-0.4124	10.52	0.6564	118.0	118.1	118.0	118.1	2197.
14	35	1	-8.328	-0.6072	13.72	0.7864	118.1	118.4	118.1	118.4	2977.
14	43	21	-14.29	-0.7926	18.03	0.9313	118.2	118.6	118.2	118.6	4037.
14	51	41	-22.83	-0.9680	23.58	1.097	118.4	118.9	118.4	118.9	5877.
15	0	1	-34.29	-1.122	30.57	1.280	118.7	119.2	118.7	119.2	8373.
15	8	21	-48.97	-1.244	39.38	1.485	119.1	119.6	119.1	119.6	1.1878E+04
15	16	41	-67.50	-1.327	50.85	1.717	119.6	120.0	119.6	120.0	1.6707E+04
15	25	1	-92.95	-1.364	68.13	2.017	120.2	120.6	120.2	120.6	2.4247E+04
15	33	21	-127.1	-1.333	95.35	2.414	121.1	121.4	121.1	121.4	3.6440E+04
15	41	41	-184.6	-1.308	141.2	2.964	122.2	122.4	122.2	122.4	5.6949E+04
15	50	1	-254.5	-1.224	207.9	3.617	123.6	123.7	123.6	123.7	8.7119E+04
15	58	21	-294.1	-1.178	249.7	3.507	124.3	124.4	124.3	124.4	1.0542E+05
16	6	41	-313.7	-1.153	272.2	3.345	124.6	124.7	124.6	124.7	1.1465E+05
16	15	1	-326.7	-1.139	286.9	3.418	124.8	124.9	124.8	124.9	1.2067E+05
16	23	21	-329.7	-1.136	290.2	3.434	124.8	124.9	124.8	124.9	1.2205E+05
16	31	41	-326.1	-1.140	286.1	3.414	124.8	124.9	124.8	124.9	1.2036E+05
16	40	1	-317.0	-1.150	275.7	3.363	124.6	124.7	124.6	124.7	1.1615E+05
16	48	21	-304.6	-1.164	261.7	3.294	124.5	124.6	124.5	124.6	1.1039E+05
16	56	41	-293.9	-1.179	249.2	3.517	124.3	124.4	124.3	124.4	1.0525E+05
17	5	1	-277.4	-1.211	229.1	3.801	124.0	124.1	124.0	124.1	9.6851E+04
17	13	21	-253.2	-1.228	206.2	3.602	123.6	123.7	123.6	123.7	8.6459E+04
17	21	41	-234.1	-1.240	188.9	3.444	123.3	123.4	123.3	123.4	7.8644E+04
17	30	1	-224.4	-1.243	180.5	3.364	123.1	123.2	123.1	123.2	7.4858E+04
17	38	21	-218.3	-1.245	175.3	3.315	123.0	123.1	123.0	123.1	7.2526E+04
17	46	41	-213.6	-1.247	171.3	3.276	122.9	123.1	122.9	123.1	7.0704E+04
17	55	1	-209.6	-1.248	168.0	3.243	122.9	123.0	122.9	123.0	6.9195E+04
18	3	21	-205.6	-1.248	164.6	3.209	122.8	122.9	122.8	122.9	6.7705E+04
18	11	41	-201.3	-1.249	161.2	3.174	122.7	122.9	122.7	122.9	6.6167E+04
18	20	1	-197.7	-1.261	156.8	3.129	122.6	122.8	122.6	122.8	6.4148E+04
18	28	21	-193.4	-1.278	151.4	3.074	122.5	122.7	122.5	122.7	6.1684E+04
18	36	41	-188.1	-1.299	144.8	3.003	122.3	122.5	122.3	122.5	5.8716E+04
18	45	1	-180.6	-1.329	135.9	2.907	122.1	122.3	122.1	122.3	5.4657E+04
18	53	21	-176.0	-1.348	130.6	2.847	122.0	122.2	122.0	122.2	5.2229E+04
19	1	41	-171.4	-1.346	127.3	2.809	121.9	122.1	121.9	122.1	5.0759E+04
19	10	1	-167.3	-1.344	124.5	2.777	121.9	122.1	121.9	122.1	4.9522E+04
19	18	21	-164.3	-1.342	122.5	2.753	121.8	122.0	121.8	122.0	4.8598E+04
19	26	41	-161.0	-1.340	120.2	2.726	121.8	122.0	121.8	122.0	4.7579E+04
19	35	1	-157.5	-1.337	117.8	2.698	121.7	121.9	121.7	121.9	4.6515E+04
19	43	21	-153.8	-1.334	115.2	2.668	121.6	121.8	121.6	121.8	4.5412E+04
19	51	41	-150.2	-1.330	112.9	2.639	121.6	121.8	121.6	121.8	4.4378E+04
20	0	1	-146.8	-1.326	110.7	2.612	121.5	121.7	121.5	121.7	4.3407E+04
20	8	21	-143.5	-1.321	108.6	2.586	121.5	121.7	121.5	121.7	4.2470E+04
20	16	41	-140.5	-1.317	106.6	2.561	121.4	121.6	121.4	121.6	4.1592E+04
20	25	1	-137.8	-1.318	104.6	2.535	121.4	121.6	121.4	121.6	4.0663E+04
20	33	21	-134.9	-1.324	101.9	2.501	121.3	121.5	121.3	121.5	3.9465E+04
20	41	41	-131.6	-1.331	98.88	2.462	121.2	121.4	121.2	121.4	3.8127E+04
20	50	1	-128.2	-1.337	95.88	2.422	121.1	121.4	121.1	121.4	3.6767E+04
20	58	21	-124.6	-1.343	92.76	2.379	121.0	121.3	121.0	121.3	3.5350E+04
21	6	41	-120.9	-1.349	89.65	2.337	120.9	121.2	120.9	121.2	3.3937E+04
21	15	1	-117.3	-1.355	86.56	2.295	120.8	121.1	120.8	121.1	3.2579E+04
21	23	21	-113.7	-1.359	83.68	2.254	120.7	121.0	120.7	121.0	3.1287E+04
21	31	41	-110.2	-1.362	80.92	2.213	120.7	121.0	120.7	121.0	3.0034E+04
21	40	1	-106.6	-1.366	78.05	2.170	120.6	120.9	120.6	120.9	2.8726E+04
21	48	21	-102.8	-1.369	75.13	2.127	120.5	120.8	120.5	120.8	2.7442E+04
21	56	41	-99.10	-1.371	72.27	2.084	120.4	120.7	120.4	120.7	2.6187E+04

22 5 1	-95.15	-1.371	69.39	2.038	120.3	120.6	120.3	120.6	2.4893E+04
22 13 21	-91.14	-1.370	66.53	1.991	120.2	120.5	120.2	120.5	2.3588E+04
22 21 41	-87.12	-1.368	63.69	1.944	120.1	120.5	120.1	120.5	2.2356E+04
22 30 1	-83.29	-1.365	61.00	1.900	120.0	120.4	120.0	120.4	2.1187E+04
22 38 21	-79.56	-1.361	58.45	1.856	119.9	120.3	119.9	120.3	2.0060E+04
22 46 41	-76.08	-1.354	56.17	1.815	119.8	120.2	119.8	120.2	1.9031E+04
22 55 1	-72.73	-1.347	54.00	1.775	119.7	120.1	119.7	120.1	1.8102E+04
23 3 21	-69.50	-1.339	51.91	1.737	119.6	120.1	119.6	120.1	1.7210E+04
23 11 41	-66.46	-1.331	49.95	1.700	119.5	120.0	119.5	120.0	1.6369E+04
23 20 1	-63.53	-1.322	48.05	1.665	119.5	119.9	119.5	119.9	1.5555E+04
23 28 21	-60.81	-1.311	46.40	1.632	119.4	119.9	119.4	119.9	1.4822E+04
23 36 41	-58.22	-1.299	44.83	1.599	119.3	119.8	119.3	119.8	1.4172E+04
23 45 1	-55.75	-1.287	43.33	1.568	119.3	119.8	119.3	119.8	1.3554E+04
23 53 21	-53.41	-1.274	41.91	1.538	119.2	119.7	119.2	119.7	1.2963E+04
Mean	-59.75	-0.50							
Maximum	0.00	0.00							
Minimum	-329.67	-1.37							
Total	-4.351E+04								

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| Table E10 - CONDUIT SUMMARY STATISTICS |
| Note: The peak flow may be less than the design flow |
| and the conduit may still surcharge because of the |
| downstream boundary conditions. |
| |
| * denotes an open conduit that has been overtopped |
| this is a potential source of severe errors |
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Conduit Name	Design Flow (cfs)	Conduit Design Velocity (ft/s)	Maximum Vertical Depth (in)	Maximum Computed Flow (cfs)	Time of Occurence Hr.	Time of Occurence Min.	Maximum Computed Velocity (ft/s)	Time of Occurence Hr.	Time of Occurence Min.	Ratio of Max. to Design Flow	Maximum Water Elev at Upstream (ft)	Maximum Water Elev at Pipe Ends Dwnstrm (ft)	Ratio d/D US	Ratio d/D DS
BF63-BF61	197.8517	4.4411	61.2000	4.1347	15	32	2.1266	13	20	0.0209	126.6467	126.6467	0.656	0.664
L-B-65	5.8937	1.8760	24.0000	4.5302	18	36	2.4119	15	15	0.7686	126.9974	127.0084	3.189	3.249
E100	437365.0	5.9178	282.6000	243.3892	17	2	2.4021	20	2	0.0006	129.8478	128.3896	0.301	0.268
E131	1967.498	4.1876	115.8000	-329.894	16	21	-1.3719	21	58	-0.1677	124.9208	124.8276	0.733	0.828
D31-D33	100.5170	3.3506	60.0000	179.8334	16	15	5.9891	16	15	1.7891	120.2182	119.5725	1.190	1.101
D33-D35	108.2456	3.6082	60.0000	197.5359	16	15	6.5815	16	15	1.8249	119.5726	119.0320	1.101	1.026
D35-D37	116.5642	3.2379	72.0000	211.7431	16	15	5.8813	16	15	1.8165	119.0267	118.8500	1.021	1.000
D32-D31	28.7985	5.8668	30.0000	9.3188	16	15	4.0110	15	41	0.3236	120.2552	120.2182	1.450	1.575
D34-D33	29.4103	9.3616	24.0000	8.7709	16	15	6.5957	15	44	0.2982	119.6464	119.5726	0.928	1.491
D38-D36	12.2944	6.9572	18.0000	3.8691	16	0	6.1608	16	0	0.3147	121.0784	120.0776	0.386	0.385
D36-D35	16.9561	9.5952	18.0000	8.4441	16	15	8.8474	15	49	0.4980	119.7472	119.0267	0.651	1.404
L-A-10	51.4540	3.4303	36.0000	61.8118	17	1	4.1306	15	51	1.2013	136.9438	136.7840	1.945	1.948
L-A-11	58.1723	3.8782	36.0000	69.4554	16	59	4.8259	15	51	1.1940	136.7499	136.6496	1.967	1.967
L-A-12	59.1465	3.9431	36.0000	69.3150	16	59	4.8010	15	51	1.1719	136.6496	136.4978	1.967	1.969
L-A-13	63.0407	3.5023	36.0000	37.7757	16	14	3.0377	15	57	0.5992	131.2144	131.1265	0.901	0.982
L-A-14	66.7102	3.7061	36.0000	49.8662	16	19	3.7490	15	55	0.7475	131.1265	131.0068	0.982	1.022
L-A-15	63.6953	3.5386	36.0000	49.7997	16	19	3.5159	15	54	0.7818	131.0068	130.8321	1.022	1.121
L-A-16	65.9769	3.6654	36.0000	55.9305	16	18	3.9399	15	52	0.8477	130.8321	130.8202	1.121	1.163
L-A-17	61.8579	3.4366	36.0000	55.9396	16	18	3.9429	15	49	0.9043	130.8202	130.8036	1.163	1.215
L-A-18	60.2284	3.3460	36.0000	60.5026	16	18	4.7248	15	48	1.0046	130.8036	130.7918	1.215	1.244
L-A-19	214.2128	11.9007	36.0000	60.5086	16	18	5.7127	15	38	0.2825	130.7918	130.7753	1.244	1.828
L-A-20	212.1563	11.7865	36.0000	65.2561	16	18	3.6124	16	18	0.3076	130.7753	130.7503	1.828	2.583
L-A-21	130.3744	7.2430	36.0000	65.2573	16	18	3.6012	16	18	0.5005	130.7503	130.7463	2.583	2.629
L-A-22	54.9342	4.3715	48.0000	35.6669	16	15	2.8275	16	15	0.6493	130.8635	130.8419	1.753	1.923
L-A-23	37.6665	3.9150	42.0000	26.7557	16	15	2.7671	16	15	0.7103	130.8776	130.8635	1.936	2.004
L-A-24	39.1417	4.0683	42.0000	18.1792	16	27	1.8812	16	27	0.4644	130.9008	130.8946	1.814	1.858
L-A-25	26.0419	3.6842	36.0000	18.1558	16	27	2.5531	16	27	0.6972	130.9115	130.9000	2.074	2.117
L-A-26	12.9853	4.1334	24.0000	10.1364	15	59	4.0276	15	40	0.7806	130.8706	130.8635	2.360	2.507
L-A-27	38.2771	3.9784	42.0000	25.6416	16	15	2.6527	16	15	0.6699	130.8946	130.8776	1.858	1.936
L-A-3	15.7117	1.9640	24.0000	15.4750	15	56	1.9278	15	56	0.9849	137.1898	137.1506	2.210	2.245
L-A-33	20.2694	2.8675	36.0000	26.9622	15	56	3.7698	15	56	1.3302	137.0123	136.9438	1.951	1.945
L-A-35	5.5591	3.1458	18.0000	8.5286	15	56	4.7855	15	56	1.5342	136.8805	136.7840	2.840	2.896
L-A-36	5.5425	3.1364	18.0000	9.4923	15	56	5.3232	15	56	1.7126	136.8044	136.4978	3.043	2.939
L-A-37	59.3486	3.9566	36.0000	71.2122	17	0	5.1592	15	51	1.1999	136.4978	136.0812	1.969	1.960
L-A-39	5.5776	3.1563	18.0000	8.4778	15	56	4.7628	15	56	1.5200	136.2155	136.0812	2.904	2.921
L-A-40	72.9210	4.0512	36.0000	83.4660	15	54	5.1807	15	52	1.1446	136.0186	135.8270	1.990	1.989
L-A-41	74.1856	4.1214	36.0000	89.0628	15	54	5.5420	15	52	1.2005	135.8271	135.4000	1.989	1.977
L-A-42	5.5714	3.1528	18.0000	8.7002	15	56	4.9006	15	56	1.5616	135.9714	135.8270	2.968	2.978
L-A-43	5.5714	3.1528	18.0000	11.8267	15	55	6.6374	15	55	2.1227	135.7540	135.4000	3.083	2.953
L-A-44	86.8752	4.8264	36.0000	93.4540	15	54	6.0034	15	51	1.0757	135.4000	134.6792	1.977	2.003
L-A-45	97.9657	4.0819	48.0000	102.8904	16	25	4.8248	15	50	1.0503	134.6792	133.9735	1.752	1.738
L-A-46	97.9657	4.0819	48.0000	110.2566	16	21	4.7042	15	49	1.1255	133.9735	133.2203	1.738	1.700
L-A-47	97.9657	4.0819	48.0000	115.8490	16	16	4.8104	16	16	1.1825	133.2203	132.2524	1.700	1.633
L-A-48	111.4718	4.6447	48.0000	124.6241	16	15	5.1767	16	15	1.1180	132.2524	130.9250	1.633	1.609
L-A-49	129.4865	5.3953	48.0000	137.3996	16	15	5.7093	16	15	1.0611	130.9247	130.3971	1.609	1.652
L-A-50	14.0655	2.8654	30.0000	14.8912	16	15	3.0270	16	15	1.0587	132.8725	132.2278	1.349	1.335
L-A-51	22.1700	4.5164	30.0000	38.9160	16	15	7.9015	16	15	1.7553	132.2278	131.2144	1.335	1.082
L-A-53	14.6373	2.9819	30.0000	15.9666	15	42	3.2459	15	42	1.0908	130.9194	130.7353	2.544	2.602
L-A-54	31.5992	3.2844	42.0000	31.6061	15	45	3.5192	15	34	1.0002	130.7353	130.6387	1.859	1.905
L-A-55	31.4272	3.2665	42.0000	31.5935	15	45	3.4033	15	32	1.0053	130.6387	130.5589	1.905	1.948
L-A-56	45.4608	3.6177	48.0000	35.7271	15	45	3.5203	15	30	0.7859	130.5589	130.4916	1.705	1.763
L-A-57	45.4488	3.6167	48.0000	35.7024	15	46	3.4392	15	27	0.7856	130.4916	130.4244	1.763	1.821
L-A-58	45.5563	3.6253	48.0000	39.4431	15	46	3.9145	15	23	0.8658	130.4244	130.3973	1.821	1.839
L-A-59	3.3382	1.8890	18.0000	-4.5738	19	51	-2.5883	19	51	-1.3701	131.4670	131.1219	3.078	3.041
L-A-60	7.1865	2.2875	24.0000	10.3811	16	0	3.2799	16	0	1.4445	131.1219	130.7739	2.531	2.502
L-A-61	12.8125	2.6101	30.0000	16.9507	16	0	3.4350	16	0	1.3230	130.7739	130.7353	2.202	2.202
L-A-64	12.0710	3.8423	24.0000	17.9400	17	9	5.6632	17	9	1.4862	139.5929	139.2934	2.871	3.007
L-A-65	12.3335	3.9259	24.0000	18.6283	17	9	5.8918	17	9	1.5104	139.2934	138.5589	3.007	3.084
L-A-66	18.2569	3.7193	30.0000	21.4183	17	10	4.4176	15	45	1.1732	138.5589	138.1083	2.664	2.703
L-A-67	24.3548	3.4455	36.0000	32.0504	17	9	4.5025	17	9	1.3160	138.1083	138.0330	2.419	2.414
L-A-68	25.6788	3.6328	36.0000	31.9896	17	9	4.4947	17	9	1.2458	138.0330	137.1356	2.414	2.392
L-A-73	21.6179	4.4040	30.0000	32.6852	16	15	6.5908	16	15	1.5119	136.5199	136.2760	2.664	2.626
L-A-75	45.4240	3.6147	48.0000	64.4339	15	54	5.1049	15	54	1.4185	135.7528	134.7358	1.968	1.864
L-A-76	45.4240	3.6147	48.0000	69.2833	15	54	5.4929	15	54	1.5253	134.7358	133.6183	1.864	1.735
L-A-77	15.5030	3.1582	30.0000	23.9322	17	10	4.8436	17	10	1.5437	133.6688	133.6183	2.176	2.175
L-A-78	55.3229	4.4025	48.0000	88.7266	16	11	7.0324	16	11	1.6038	133.6183	132.3324	1.735	1.636
L-A-79	10.1170	3.2204	24.0000	16.5834	16	15	5.2541	16	15	1.6392	132.3438	132.3324	2.242	2.271
L-A-80	55.5390	4.4197	48.0000	108.9477	16	14	8.6859	16	11	1.9616	132.3324	131.7315	1.636	1.640
L-A-81	15.5030	3.1582	30.0000	22.5026	16	15	4.8257	15	44	1.4515	131.5434	131.5406	2.217	2.236
L-A-82	192.5645	4.8141	60.0000	133.9781	18	36	3.3420	18	36	0.6958	131.5406	131.3647	1.524	1.577
L-A-83	192.4511	4.8113	60.0000	134.1498	18	36	3.3455	18	36	0.6971	131.3647	131.2294	1.577	1.628
L-A-84	5.6873	3.2184	18.0000	5.8940	15	59	3.5022	15	45	1.0363	131.1267	131.1175	2.418	2.998
L-A-85	5.6858	3.2175	18.0000	-6.2801	16	0	3.6572	15	40	-1.1045	131.1175	131.1067	2.998	3.284
L-A-86	10.0740	3.2067	24.0000	6.2366	15	40	3.2371	15	36	0.6191	131.1067	131.1446	2.708	3.087
L-A-87	10.0780	3.2079	24.0000	5.7261	20	58	2.9956	15	32	0.5682	131.1446	131.2272	3.087	3.514
L-A-88	15.6643	3.1911	30.0000	6.5534	16	15	2.4735	15	23	0.4184	131.2272	131.2294	3.011	3.052
L-A-89	73.9459	3.6973	48.0000	137.9260	18	39	6.8655	18	39	1.8652	131.2294	131.1467	2.035	2.024
L-A-9	31.7287	3.1729	24.0000	46.0691	17	4	4.5938	17	4	1.4520	137.0157	136.9437	2.403	2.417
L-A-90	76.6035	3.8302	48.0000	138.1436	18	38	6.8772	18	39	1.8034	131.1467	130.9720	2.024	2.006
L-A-91	78.7300	3.9365	48.0000	138.4040	18	38	6.8920	18	38	1.7580	130.9718	130.8419	2.005	1.995
L-A-92	44.7765	2.2388	48.0000	139.6733	18	36	6.9563	18	36	3.1193	130.8419	130.7921	1.995	1.986
L-A-93	44.7765	2.2388	48.0000	140.5623	18	19	6.9997	18	19	3.1392	130.7921	130.7463	1.986	1.977
L-A-94	43.3002	3.4457	48.0000	147.5255	17	56	11.6788	18	7	3.4070	130.7463	130.3973	1.977	1.902
L-A-95	47.2226	2.9514	48.0000	119.1686	16	59	7.4151	16	59	2.5236	130.3971	129.8478	1.902	1.769
L-B-1	5.6761	3.2120	18.0000	2.5786	16	2	2.5646	16	1	0.4543	127.7824	127.4392	0.535	0.793
L-B-11	12.0922	3.8491	24.0000	23.4419	16	15	7.4126	16	15	1.9386	126.6278	126.1432	2.064	1.892
L-B-12	192.7071	4.8177	60.0000	116.9752	19	25	2.9215	19	25	0.6070	126.1432	126.1582	1.667	1.780
L-B-13	192.6903	4.8173	60.0000	119.1426	19	22	2.9745	19	22	0.6183	126.1583	126.1605	1.780	1.810
L-B-14	10.2198	3.2531	24.0000	13.0215	16	20	4.1017	16	20	1.2742	126.3166	126.1605	2.658	2.630
L-B-15	189.5467	4.7387	60.0000	121.8750	19	15	3.0422	19	15	0.6430	126.1605	126.1614	1.810	1.828
L-B-16	3.3218	1.8797	18.0000	3.7784	16	0	2.1305	16	0	1.1375	129.6714	129.4737	1.908	1.909
L-B-17	5.7989	3.2815	18.0000	7.3636	16	0	4.1536	16	0	1.2698	129.4737	128.9817	1.909	1.988

L-B-18	12.0165	3.8250	24.0000	12.2557	16	0	4.8325	15	50	1.0199	128.9817	128.8794	1.741	1.780
L-B-19	12.1448	3.8658	24.0000	17.4164	17	0	5.5139	17	0	1.4341	129.8202	128.8794	2.660	2.540
L-B-20	54.3843	4.3278	48.0000	26.4850	17	0	2.7951	15	29	0.4870	128.8794	128.8219	2.020	2.085
L-B-21	4.9788	2.8174	18.0000	6.4704	16	0	3.6071	16	0	1.2996	129.2887	128.8219	3.799	3.895
L-B-23	18.3051	3.7291	30.0000	26.1429	17	0	5.2992	17	0	1.4282	130.1632	128.8738	2.217	2.150
L-B-24	21.4045	3.0281	36.0000	27.8661	16	59	4.6700	15	45	1.3019	128.8738	128.8219	1.958	1.957
L-B-25	75.1575	4.7256	54.0000	55.3208	17	0	3.4665	17	0	0.7361	128.8219	128.7001	1.965	2.002
L-B-27	68.6215	4.3146	54.0000	60.2687	16	54	3.7705	16	54	0.8783	128.7001	128.5474	2.002	2.024
L-B-28	12.6881	4.0387	24.0000	13.8032	16	15	4.3338	16	15	1.0879	128.8826	128.5474	3.286	3.299
L-B-29	69.4769	4.3684	54.0000	68.3893	16	39	4.2734	16	39	0.9843	128.5474	128.1199	2.024	2.036
L-B-30	66.5069	4.1817	54.0000	68.4066	16	39	4.2744	16	39	1.0286	128.1199	127.5204	2.036	2.040
L-B-31	18.6324	3.7958	30.0000	22.9879	16	15	4.6289	16	15	1.2338	127.7461	127.5204	2.894	2.872
L-B-32	68.0309	4.2775	54.0000	87.4498	16	30	5.4628	16	30	1.2854	127.5204	126.5329	2.040	1.956
L-B-33	67.3506	4.2347	54.0000	87.4697	16	30	5.4670	16	30	1.2987	126.5330	125.3746	1.956	1.857
L-B-34	10.5490	3.3578	24.0000	16.3424	16	15	5.1358	16	15	1.5492	125.8093	125.3746	3.045	2.927
L-B-35	61.7473	3.8824	54.0000	102.0943	16	26	6.3847	16	26	1.6534	125.3746	125.1859	1.857	1.830
L-B-36	10.3666	3.2998	24.0000	1.9034	16	0	1.7039	15	39	0.1836	125.6409	125.6336	1.685	1.827
L-B-37	10.1878	3.2429	24.0000	4.0034	16	0	2.4790	15	38	0.3930	125.6336	125.6029	1.827	1.946
L-B-38	18.2632	3.7205	30.0000	5.9820	16	0	2.3202	15	33	0.3275	125.6029	125.5818	1.757	1.857
L-B-39	27.7976	3.9326	36.0000	7.7966	16	0	1.1420	15	27	0.2805	125.5818	125.5748	1.714	1.752
L-B-4	18.2628	3.7205	30.0000	27.1839	16	15	5.5762	15	49	1.4885	126.2208	125.5870	1.216	1.095
L-B-40	25.0138	3.5387	36.0000	10.5588	16	0	1.7451	15	25	0.4221	125.5748	125.5470	1.752	1.812
L-B-41	26.5600	3.7575	36.0000	12.8902	16	0	1.8854	15	23	0.4853	125.5470	125.5159	1.812	1.859
L-B-42	25.4848	3.6054	36.0000	12.8927	16	0	1.8153	16	0	0.5059	125.5159	125.4394	1.859	1.960
L-B-43	39.0617	4.0600	42.0000	14.7398	16	0	1.5250	16	0	0.3773	125.4394	125.4151	1.823	1.873
L-B-44	40.2684	4.1854	42.0000	16.5873	16	0	1.7157	16	0	0.4119	125.4151	125.3885	1.873	1.922
L-B-45	46.7690	3.7218	48.0000	20.6906	16	0	1.6391	16	0	0.4424	125.3885	125.3737	1.807	1.828
L-B-46	8.1768	4.6271	18.0000	4.9503	16	15	3.5559	15	29	0.6054	125.4679	125.3737	3.079	3.196
L-B-47	44.9568	3.5775	48.0000	27.0846	16	0	2.1453	16	0	0.6025	125.3737	125.3058	1.828	1.869
L-B-48	45.0352	3.5838	48.0000	30.9477	16	0	2.4508	16	0	0.6872	125.3058	125.2777	1.869	1.879
L-B-49	45.8658	3.6499	48.0000	30.9424	16	0	2.4503	16	0	0.6746	125.2777	125.2243	1.879	1.901
L-B-5	192.7006	4.8175	60.0000	-116.435	16	22	3.6779	22	11	-0.6042	125.6930	125.8666	1.157	1.331
L-B-50	76.2457	6.0674	48.0000	32.6389	16	0	2.5842	16	0	0.4281	125.2243	125.1908	1.901	1.948
L-B-51	57.4220	4.5695	48.0000	32.6297	16	0	2.5828	16	0	0.5682	125.1907	125.1616	1.948	1.973
L-B-52	31.8405	3.3094	42.0000	33.8693	17	8	3.5045	17	8	1.0637	126.2871	125.8157	1.933	1.982
L-B-53	45.3381	3.6079	48.0000	38.1464	17	8	3.0240	17	8	0.8414	125.8157	125.5679	1.859	1.909
L-B-54	45.4294	3.6152	48.0000	43.8800	16	46	3.4734	16	46	0.9659	125.5679	125.2367	1.909	1.927
L-B-55	45.7340	3.6394	48.0000	47.0573	16	38	3.7238	16	38	1.0289	125.2367	125.1303	1.927	1.928
L-B-56	22.4499	4.5735	30.0000	3.7439	16	15	1.7992	15	22	0.1668	125.4458	125.4190	1.882	2.248
L-B-57	30.3838	4.2984	36.0000	21.3404	16	15	3.0000	16	15	0.7024	125.5370	125.4190	1.996	2.040
L-B-58	50.3548	5.2338	42.0000	25.0591	16	15	2.5896	16	15	0.4977	125.4190	125.2191	1.891	2.097
L-B-59	30.7854	3.1908	42.0000	25.0660	16	15	2.5875	16	15	0.8142	125.2191	125.1859	2.097	2.105
L-B-60	93.9336	2.6838	60.0000	166.7784	16	15	4.7498	16	15	1.7755	125.1303	124.9208	1.656	1.616
L-B-61	135.1923	3.8626	60.0000	143.9387	16	15	4.0993	16	15	1.0647	125.1611	125.1303	1.656	1.656
L-B-62	108.4362	3.0982	60.0000	127.6889	16	15	3.6363	16	15	1.1775	125.1859	125.1616	1.657	1.656
L-B-63	42.2683	2.6577	54.0000	170.4842	18	9	10.6852	18	9	4.0334	125.6159	125.1859	1.926	1.841
L-B-64	42.0894	2.6464	54.0000	170.1117	18	9	10.6464	18	9	4.0417	126.1614	125.6168	2.031	1.926
L-B-66	12.8418	2.6161	30.0000	6.6191	15	53	2.4660	15	17	0.5154	127.0084	126.9906	2.599	2.660
L-B-67	12.8453	2.6168	30.0000	6.6077	15	53	2.8314	15	16	0.5144	126.9906	126.9819	2.660	2.693
L-B-68	25.3488	3.5861	36.0000	22.7600	15	58	3.1944	15	58	0.8979	126.9819	127.0588	2.411	2.493
L-B-69	31.6537	3.2900	42.0000	-18.3546	16	46	2.1217	14	59	-0.5799	127.0588	127.1262	2.137	2.216
L-B-70	30.7650	3.1976	42.0000	30.6756	15	47	3.1714	15	47	0.9971	127.1262	127.1351	2.216	2.244
L-B-71	30.0535	3.1237	42.0000	28.5273	15	43	2.9504	15	43	0.9492	127.1351	127.1390	2.244	2.257
L-B-72	35.2205	3.6607	42.0000	32.1844	15	42	3.3295	15	42	0.9138	127.1390	127.1419	2.257	2.326
L-B-73	37.3690	2.9737	48.0000	36.8734	15	46	2.9230	15	46	0.9867	127.1419	127.1421	2.035	2.053
L-B-76	50.6045	3.1818	54.0000	46.8891	17	34	2.9349	17	34	0.9266	127.1380	127.1351	1.875	1.879
L-B-77	58.7326	3.6929	54.0000	46.8893	17	34	2.9349	17	34	0.7984	127.1351	127.1265	1.879	1.895
L-B-78	59.3838	3.7338	54.0000	46.8952	17	34	2.9350	17	34	0.7897	127.1265	127.1212	1.895	1.905
L-B-79	60.3233	3.7929	54.0000	52.4374	15	36	3.2909	15	36	0.8693	127.1212	127.0975	1.905	1.926
L-B-8	192.8385	4.8210	60.0000	111.2856	19	32	3.0673	22	2	0.5771	125.9977	126.0495	1.458	1.528
L-B-80	60.5632	3.8080	54.0000	54.8312	17	24	3.4307	17	24	0.9054	127.0975	127.0702	1.926	1.953
L-B-81	5.6050	3.1718	18.0000	6.2032	16	0	3.4844	16	0	1.1067	127.1403	127.0702	2.620	2.713
L-B-82	60.4199	3.7990	54.0000	56.9193	17	20	3.5607	17	20	0.9421	127.0702	127.0509	1.953	1.969
L-B-83	61.0502	3.8386	54.0000	61.5162	17	20	3.8483	17	20	1.0076	127.0509	126.9677	1.969	2.002
L-B-84	104.9804	4.1992	60.0000	99.8818	17	9	3.9816	17	9	0.9514	126.9677	126.8142	1.802	1.821
L-B-85	103.3819	4.1353	60.0000	113.2929	17	9	4.5162	17	9	1.0959	126.8142	126.5677	1.821	1.828
L-B-86	105.0739	4.2030	60.0000	115.6952	17	8	4.6122	17	9	1.1011	126.3704	126.2883	1.832	1.834
L-B-87	101.3034	4.0521	60.0000	130.0274	17	8	5.1837	17	8	1.2835	126.2883	126.1614	1.834	1.828
L-B-88	5.4183	3.0661	18.0000	4.6029	16	0	3.4828	15	42	0.8495	126.4006	126.3704	1.874	1.914
L-B-89	104.3360	4.1734	60.0000	114.6867	17	9	4.5719	17	9	1.0992	126.5677	126.3705	1.828	1.832
L-B-9	192.8809	4.8220	60.0000	111.2896	19	32	2.8838	21	59	0.5770	126.0495	126.1188	1.528	1.622
L-B-90	5.4509	3.0846	18.0000	6.3287	16	0	4.0724	15	48	1.1610	126.6445	126.5677	1.510	1.545
L-B-91	5.4596	3.0895	18.0000	6.1540	16	0	3.5442	15	36	1.1272	126.8809	126.8142	2.487	2.543
L-B-92	5.7253	3.2399	18.0000	6.1732	16	0	3.4535	16	0	1.0782	127.0406	126.9677	3.227	3.312
L-B-93	5.6314	3.1867	18.0000	3.3802	16	0	2.3233	15	31	0.6002	127.1364	127.1212	3.124	3.247
L-C-2	36.3252	5.1390	36.0000	18.7278	16	15	4.2617	15	53	0.5156	123.9884	123.8779	1.356	1.459
L-C-10	55.1185	4.3862	48.0000	43.3153	16	15	3.4516	15	50	0.7859	123.3909	123.2424	1.448	1.471
L-C-11	49.4881	3.9381	48.0000	49.9818	16	15	3.9656	16	15	1.0100	123.2424	122.8336	1.471	1.468
L-C-12	49.7456	3.9586	48.0000	57.0941	16	15	4.5301	16	15	1.1477	122.8336	122.0416	1.468	1.420
L-C-13	45.2663	3.6022	48.0000	71.2510	16	15	5.6414	16	15	1.5740	122.0416	120.6848	1.420	1.219
L-C-14	51.3727	4.0881	48.0000	86.7500	16	15	6.7109	16	15	1.6886	120.6848	120.4085	1.219	1.177
L-C-3	23.3492	3.3032	36.0000	19.7291	16	15	3.3778	15	53	0.8450	122.4031	122.2726	1.168	1.191
L-C-4	31.9569	3.3215	42.0000	29.9396	16	16	3.1961	15	55	0.9369	122.2726	121.9904	1.164	1.183
L-C-5	31.8152	3.3068	42.0000	40.3632	16	17	4.0225	15	54	1.2687	121.9994	121.2671	1.183	1.116
L-C-6	49.5817	3.9456	48.0000	58.6828	16	16	4.4976	16	17	1.1836	121.2671	120.4085	1.102	1.052
L-C-7	117.2078	3.9069	60.0000	160.8973	16	16	5.3578	16	16	1.3728	120.4085	120.2182	1.208	1.190
L-C-9	42.6851	4.4366	42.0000	31.3000	16	15	4.0780	15	50	0.7333	123.8779	123.3908	1.394	1.512
L-D-1	12.9012	2.6282	30.0000	12.6233	16	30	3.1592	16	45	0.9785	124.0845	123.8918	0.806	0.809
L-D-10	45.3895	3.6120	48.0000	17.2212	16	0	2.7975	15	45	0.3794	120.6970	120.5416	0.619	0.665
L-D-11	108.9746	5.5500	60.0000	25.8490	16	1	1.3700	16	1	0.2372	120.5416	120.5079	0.932	0.998
L-D-12	52.3421	2.6658	60.0000	30.3515	16	1	1.5559	16	1	0.5799	120.5079	120.4453	0.998	1.005
L-D-13	59.2310	2.4931	66.0000	34.3433	16	1	-2.1993	15	9	0.5798	120.4453	120.4380	1.005	1.005
L-D-14	6.2186	0.0000	54.0000	34.4041	16	1	2.1505	16	1	5.5325	120.4380	120.4187	1.935	1.931
L-D-15	66.9663	2.8187	66.0000	34.6510	16	1	-2.3292	15	9	0.5174	120.4187	120.3900	1.005	1.011
L-D-16	74.2836	2.6272	72.0000	38.2865	16	1	1.3525	16	1	0.5154	120.3900	120.3288	1.010	1.015
L-D-17	72.7227	2.5720	72.0000	112.0915	16	1	3.9437	16	1	1.5414	120.3288	120.1900	1.015	1.000
L-D-18	10.7783	3.4309	24.0000	3.2345	16	0	3.1725	16	0	0.3001	122.3010	121.9877	0.366	0.314
L-D-2	14.4762	2.9491	30.0000	18.0495	16	16	4.4133	16	31	1.2468	123.8918	123.1221	0.809	0.649
L-D-3	45.2783	3.6031	48.0000	26.5867	16	16	2.5118	16	0	0.5872	123.1221	123.0059	0.781	0.836
L-D-4	44.9153	3.5742	48.0000	38.9733	16	16	3.4687	16	17	0.8677	123.0059	122.8650	0.836	0.851
L-D-5	45.3890	3.6119	48.0000	47.2167	16	17	4.1472	16	17	1.0403	122.8650	122.6090	0.851	0.850
L-D-6	44.9758	3.5791	48.0000	55.6309	16	17	4.9090	16	17	1.2369	122.6090	122.2931	0.850	0.818
L-D-7	45.0185	3.5825	48.0000	62.0424	16	17	5.7123	16	18	1.3782	122.2531	121.5772	0.818	0.722
L-D-8	46.4684	3.6978	48.0000	72.2656	16	15	7.5331	16	15	1.5552	121.5772	121.1707	0.722	0.643
L-D-9	45.5489	3.6247	48.0000	8.3856	15	59	1.6467	15	44	0.1841	120.8358	120.6970	0.579	0.619
L-E-8	193.2325	4.8308	60.0000	-144.307	16	13	-3.6450	16	13	-0.7468	131.7315	131.5406	1.466	1.524
OL-B-1	172.4603	3.4490	6.0000	0.0000	0	0	0.0000	0	0	0.0000	126.5725	126.5725	.0000	.0000
L-E100-P	168.0334	4.8010	60.0000	-140.438	16	19	-6.6369	16	1	-0.8358	131.8114	131.8105	1.414	1.430
L-E-7	192.6903	4.8173	60.0000	-251.115	16	13	-7.5048	16	3	-1.3032	131.8105	131.7316	1.430	1.466
L-E-1	118.8658	4.2452	48.0000	105.9244	16	45	3.7753	16	45	0.8911	131.8188	131.8105	1.777	1.788
L-E-2	118.8658	4.2452	48.0000	104.9877	16	30	3.8134	16	11	0.8832	131.8151	131.8105	1.776	1.788
L-C-1	13.0559	2.6597	30.0000	12.4009	17	10	2.5089	17	10	0.9498	126.3958	126.3522	2.358	2.405
L-B-94	21.6845	3.0677	36.0000	24.6614	17	8	3.4703	17	8	1.1373	126.3364	126.2871	2.069	2.089
L-E-13	192.6903	4.8173	60.0000	-134.491	16	23	3.6831	22	14	-0.6980	125.5870	125.6930	1.125	1.157
L-E-12	192.7793	4.8195	60.0000	-160.511	16	19	-4.0363	16	18	-0.8326	125.2461	125.5870	0.953	1.125
L-E-11	193.9031	4.8476	60.0000	-160.352	16	19	-4.3160	16	15	-0.8270	125.2514	125.2461	0.920	0.953
L-E-10	188.8274	4.7207	60.0000	-160.249	16	20	-4.6131	16	17	-0.8487	125.2553	125.2514	0.897	0.920
L-E-9	192.6934	4.8173	60.0000	-160.086	16	20	-4.9244	16	17	-0.8308	125.2658	125.2553	0.837	0.897
L-POND	202.1388	5.0535	60.0000	-159.876	16	20	-6.1205	16	15	-0.7909	125.2841	125.2658	0.821	0.837
L-E-3	73.5794	4.6264	54.0000	61.0239	16	15	5.6395	15	42	0.8294	125.2857	125.2856	0.878	0.894
L-E-4	73.5794	4.6264	54.0000	69.0964	16	15	5.5151	15	42	0.9391	125.2860	125.2856	0.878	0.894
L-E-6	162.6977	4.6485	60.0000	129.9987	16	15	5.8237	15	42	0.7990	125.2856	125.2841	0.804	0.821
ss bf63	23.6813	4.8243	30.0000	46.3693	17	6	9.4280	17	6	1.9581	126.6467	125.5000	1.339	1.000
rd bf63	9.8032	0.0000	6.0000	0.0000	0	0	0.0000	0	0	0.0000	125.5000	125.5000	.0000	.0000
SS-A-1	15.6448	1.9556	24.0000	4.4697	17	4	0.5585	17	4	0.2857	137.1959	137.1959	2.177	2.193
OL-A-1	42.3599	5.6461	6.0000	1.6240	16	50	0.7848	16	50	0.0383	137.1959	137.1959	0.672	1.772 *
SS-A-2	15.3155	1.9144	24.0000	15.2995	15	56	1.9059	15	56	0.9990	137.1959	137.1898	2.193	2.210
OL-A-2	34.4576	4.5928	6.0000	-4.3352	16	14	-0.9268	16	53	-0.1258	137.1959	137.1898	0.792	1.760 *

SS-A-28	5.7019	3.2266	18.0000	3.9660	16	0	2.5763	15	45	0.6956	137.9855	137.8663	2.224	2.518	
OL-A-28	1.6332	1.0888	6.0000	0.0993	16	21	0.2862	16	18	0.0608	137.9855	137.8663	0.391	1.773	*
SS-A-29	5.7044	3.2280	18.0000	7.3099	15	56	4.1199	15	56	1.2815	137.8663	137.8306	2.518	2.887	
OL-A-29	24.2956	2.2087	12.0000	4.1311	16	17	0.7837	16	2	0.1700	137.8663	137.8306	0.886	1.831	*
SS-A-30	9.9836	3.1779	24.0000	12.6704	15	56	4.0129	15	56	1.2691	137.8306	137.4743	2.415	2.432	
OL-A-30	1.7678	1.1786	6.0000	-1.0122	16	27	-0.9864	16	51	-0.5726	137.8306	137.4743	1.661	2.949	*
SS-A-31	13.0148	2.6514	30.0000	16.3200	15	56	3.1739	15	56	1.2540	137.4743	137.2717	2.146	2.153	
OL-A-31	2.0727	1.3818	6.0000	0.6798	16	27	0.4988	16	25	0.3280	137.4743	137.2717	0.949	3.543	*
SS-A-32	21.0941	2.9842	36.0000	27.4343	15	56	3.7473	15	56	1.3006	137.2717	137.0123	1.961	1.951	
OL-A-32	2.0205	1.3470	6.0000	-0.3411	16	28	-0.8415	16	33	-0.1688	137.2717	137.1813	0.543	3.363	*
SS-A-34	50.9308	3.3954	36.0000	65.8007	17	0	4.4685	15	51	1.2920	136.7840	136.7499	1.948	1.967	
OL-A-34	57.7844	3.0409	6.0000	25.0302	16	51	1.5291	16	56	0.4332	136.7840	136.7499	1.968	2.360	*
SS-A-38	65.4228	3.6346	36.0000	76.1185	15	54	4.7259	15	52	1.1635	136.0812	136.0186	1.960	1.990	
OL-A-38	63.4791	3.3406	6.0000	25.8071	16	40	1.5953	16	45	0.4065	136.0812	136.0186	1.442	2.197	*
SS-A-4	18.4253	2.3032	24.0000	27.1915	15	56	3.3885	15	56	1.4758	137.1506	137.1355	2.245	2.268	
OL-A-4	37.4987	3.3325	6.0000	-12.2125	16	9	-1.5338	17	2	-0.3257	137.1506	137.1355	1.761	2.251	*
SS-A-5	19.2240	1.9224	24.0000	26.7534	15	56	2.6683	15	56	1.3917	137.1355	137.0643	2.268	2.292	
OL-A-5	5.4603	0.9706	3.0000	4.0058	16	17	0.7121	16	17	0.7336	137.1355	137.0643	1.662	2.057	*
SS-A-52	14.7565	3.0062	30.0000	15.7448	15	42	3.2926	15	30	1.0670	130.9716	130.9194	2.389	2.544	
OL-A-52	53.7822	4.1363	6.0000	-7.8446	16	42	-1.5190	17	20	-0.1459	130.9716	130.9194	0.723	3.759	*
SS-A-6	24.0956	2.4096	24.0000	29.7688	17	4	2.9609	17	4	1.2354	137.0643	137.0585	2.292	2.304	
OL-A-6	80.4934	7.1534	6.0000	16.2452	16	16	2.3248	16	51	0.2018	137.0643	137.0585	1.029	2.217	*
SS-A-62	5.7028	3.2271	18.0000	4.9386	17	11	2.9833	17	11	0.8660	139.7520	139.7204	2.835	3.187	
OL-A-62	2.7224	0.6806	6.0000	1.3800	16	13	0.3670	15	59	0.5069	139.7520	139.7204	2.144	2.461	*
SS-A-63	5.7024	3.2269	18.0000	10.5990	17	10	5.9453	17	10	1.8587	139.7204	139.5929	3.187	3.495	
OL-A-63	4.2591	1.0648	6.0000	2.5418	16	15	0.7457	17	10	0.5968	139.7204	139.5929	2.461	3.186	*
SS-A-69	25.6160	3.6239	36.0000	34.1118	17	9	4.7965	17	9	1.3317	137.1356	136.4217	2.392	2.351	
OL-A-69	69.7767	3.8759	6.0000	0.0000	0	0	0.0000	0	0	0.0000	137.1356	136.4217	.0000	.0000	
SS-A-7	26.0957	2.6096	24.0000	50.8631	17	4	5.0675	17	4	1.9491	137.0585	137.0416	2.304	2.331	
OL-A-7	65.2487	3.4337	6.0000	-13.7496	16	48	-0.9484	16	59	-0.2107	137.0585	137.0416	1.277	2.183	*
SS-A-70	5.6568	3.2011	18.0000	8.1350	16	18	4.5055	16	17	1.4381	138.7658	136.5199	4.497	3.773	
OL-A-70	0.0028	0.0696	24.0000	0.0116	16	20	0.1937	16	19	4.1683	138.7658	136.5199	1.883	1.010	*
SS-A-71	5.6568	3.2011	18.0000	8.0293	16	19	4.4476	16	19	1.4194	138.7195	136.5199	4.466	3.773	
OL-A-71	0.0028	0.0696	24.0000	0.0115	16	21	0.1918	16	20	4.1312	138.7195	136.5199	1.860	1.010	*
SS-A-72	31.3808	3.2617	42.0000	42.1929	17	5	4.3571	17	5	1.3445	136.4217	136.2760	2.158	2.162	
OL-A-72	68.6229	3.6113	6.0000	-0.8657	16	36	-0.3158	16	36	-0.0126	136.4217	136.3646	0.163	1.189	*
SS-A-74	45.0429	3.5844	48.0000	61.6877	15	53	4.8866	15	53	1.3695	136.2760	135.7528	2.016	1.968	
OL-A-74	65.8180	3.4636	6.0000	0.0000	0	0	0.0000	0	0	0.0000	136.2760	135.7528	.0000	.0000	
SS-A-8	25.6712	2.5671	24.0000	44.6462	17	4	4.4477	17	4	1.7392	137.0416	137.0157	2.331	2.403	
OL-A-8	65.2487	3.4337	6.0000	18.3630	16	47	1.3485	16	54	0.2814	137.0416	137.0157	1.243	2.131	*
SS-B-10	192.7481	4.8187	60.0000	113.0050	19	31	2.8230	19	32	0.5863	126.1188	126.1432	1.622	1.667	
OL-B-10	46.8339	3.6019	6.0000	0.0000	0	0	0.0000	0	0	0.0000	126.1432	126.1432	.0000	.0000	
SS-B-2	5.0741	2.8713	18.0000	7.3835	16	15	4.9755	16	15	1.4551	127.4392	127.2319	0.703	0.701	
OL-B-2	32.3088	2.4848	6.0000	0.0000	0	0	0.0000	0	0	0.0000	127.4392	127.4392	.0000	.0000	
SS-B-22	15.7845	3.2156	30.0000	28.7794	17	3	5.8390	17	3	1.8233	130.1690	130.1632	2.168	2.217	
OL-B-22	84.2456	2.7174	6.0000	-16.9217	16	43	-1.5519	17	1	-0.2009	130.1690	130.1632	2.218	2.546	*
SS-B-26	5.5549	3.1434	18.0000	8.0672	16	53	4.4930	16	53	1.4523	128.7005	128.7001	3.900	4.007	
OL-B-26	425.9150	8.5179	6.0000	-7.8172	16	39	-0.7491	16	39	-0.0184	128.7005	128.7001	0.461	2.620	*
SS-B-3	11.5409	3.6736	24.0000	19.8136	16	15	6.3063	15	47	1.7168	126.5725	126.2208	1.386	1.270	
OL-B-3	309.3649	6.1870	6.0000	0.0000	0	0	0.0000	0	0	0.0000	126.5725	126.5725	.0000	.0000	
SS-B-6	192.7936	4.8198	60.0000	107.4791	19	31	3.3553	22	27	0.5575	125.8666	125.9658	1.331	1.421	
OL-B-6	46.9404	3.6101	6.0000	0.0000	0	0	0.0000	0	0	0.0000	125.9658	125.9658	.0000	.0000	
SS-B-7	192.7385	4.8185	60.0000	110.8477	19	39	3.1643	22	8	0.5751	125.9658	125.9977	1.421	1.458	
OL-B-7	47.0540	3.6188	6.0000	0.0000	0	0	0.0000	0	0	0.0000	125.9658	125.9658	.0000	.0000	
SS-B-74	44.2842	3.5240	48.0000	43.0032	15	38	3.4121	15	38	0.9711	127.1421	127.1395	2.053	2.085	
OL-B-74	88.3319	3.5329	6.0000	-18.7307	17	47	-0.8130	18	29	-0.2120	127.1421	127.1395	4.204	5.099	*
SS-B-75	45.1840	3.5956	48.0000	42.0035	15	36	3.3331	15	36	0.9296	127.1395	127.1380	2.085	2.109	
OL-B-75	209.1436	4.1827	6.0000	-26.7277	17	48	-0.7178	18	19	-0.1278	127.1395	127.1380	3.279	4.196	*
C-1 SS	21.1065	2.9860	36.0000	23.1383	17	13	3.2587	17	13	1.0963	126.3522	126.3364	2.004	2.069	
C-1 OL	50.1368	2.7472	6.0000	-12.5577	16	59	-1.7380	17	8	-0.2505	126.3522	126.3364	1.704	2.513	*
rect-orif	1.9010	0.5377	6.0000	4.1378	18	37	8.7226	15	32	2.1767	126.6467	126.9974	6.773	7.495	
Under HWY 6	Undefnd	Undefnd	Undefn	44.6551	16	33									
FREE # 1	Undefnd	Undefnd	Undefn	139.1525	17	5									
FREE # 2	Undefnd	Undefnd	Undefn	243.3922	17	1									
FREE # 3	Undefnd	Undefnd	Undefn	329.8943	16	21									
FREE # 4	Undefnd	Undefnd	Undefn	214.2336	16	15									
FREE # 5	Undefnd	Undefnd	Undefn	116.5293	16	1									
FREE # 6	Undefnd	Undefnd	Undefn	44.6551	16	33									

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| Table E14 - Natural Channel Overbank Flow Information |
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Conduit Name	<---- Maximum Velocity -----> Left Velocity	Center Velocity	Right Velocity	<------ Maximum Flow -------> Left Flow	Center Flow	Right Flow	<------ Maximum Area ------> Left Area	Center Area	Right Area	<--- Max. Storage Volume ---> Left Area	Center Area	Right Area	Maximum Depth
BF63-BF61	0.0000	0.2255	0.0000	0.0000	4.1347	0.0000	0.0000	18.3381	0.0000	0.0000	733.5233	0.0000	3.3827
E100	0.0000	2.1152	0.2293	0.0000	231.3917	11.9974	0.0000	109.3944	52.3189	0.0000	131929.60	63096.625	7.0089
E131	0.2311	1.1741	0.0395	2.6720	327.2202	0.0021	11.5624	278.6875	0.0542	5492.1490	132376.54	25.7547	7.9847

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| Table E14a - Natural Channel Encroachment Information |
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Conduit Name	<------- Existing Conveyance Condition -------> Left Bank	Centre Channel	Right Bank	Total Station	Left Station	Right Station	<----- Encroachment Conveyance Condition -----> Left Bank	Centre Channel	Right Bank	Total Station	Left Station	Right Station	<- % Volume --> Reduction Left	Reduction Right	<-- Encroachment Data --> Depth Incr.	Method
BF63-BF61	0.0000	2666.0	0.0000	2666.0	16.940	27.782	0.0000	2666.0	0.0000	2666.0	16.940	27.782	0.0000	0.0000	0.0000	None
E100	0.0000	7653.6	396.83	8050.5	4979.4	6488.0	0.0000	7653.6	396.83	8050.5	4979.4	6488.0	0.0000	0.0000	0.0000	None
E131	223.75	27400.7	0.1794	27624.6	113.19	213.56	223.75	27400.7	0.1794	27624.6	113.19	213.56	0.0000	0.0000	0.0000	None

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| Table E14b - Floodplain Mapping |
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Conduit Name	Upstream WS Elev.	Downstream WS Elev.	Channel Length	Center Station	<----- Left Offsets Natural	Encroach	Bank	<----- Right Offsets Natural	Encroach	Bank	<- Channel Widths-> Total	Encroach.
BF63-BF61	126.6467	126.6467	40.0000	22.0000	5.0597	5.0597	22.0000	5.7825	5.7825	18.0000	10.8421	10.8421
E100	129.8478	128.3896	1206.0000	5002.2000	22.7819	22.7819	28.1000	1485.8225	1485.8225	30.1000	1508.6044	1508.6044
E131	124.8276	124.9208	475.0000	166.4500	53.2555	53.2555	31.3800	47.1117	47.1117	34.5700	100.3671	100.3671

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| Table E15 - SPREADSHEET INFO LIST |
| Conduit Flow and Junction Depth Information for use in |
| spreadsheets. The maximum values in this table are the |
| true maximum values because they sample every time step.|
| The values in the review results may only be the |
| maximum of a subset of all the time steps in the run. |
| Note: These flows are only the flows in a single barrel.|
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Conduit Name	Maximum Flow	Total Flow	Maximum Velocity	Maximum Volume	## ##	Junction Name	Invert Elevation	Maximum Elevation

	(cfs)	(ft^3)	(ft/s)	(ft^3)	##		(ft)	(ft)
BF63-BF61	4.1347	74761.6254	2.1266	733.5233	##	MH-32	116.8400	124.9208
L-B-65	4.5302	74378.0446	2.4119	533.7558	##	MH-13	122.7700	129.8478
E100	243.3892	4228596.175	2.4021	195026.2284	##	B-F65	123.0000	125.5000
E131	-329.8943	-5175205.60	-1.3719	137894.4459	##	B-F63	123.3000	126.6467
D31-D33	179.8334	977157.2609	5.9891	10625.1550	##	MH-33	120.6200	126.9974
D33-D35	197.5359	1067401.981	6.5815	7790.8672	##	B-65	120.5100	127.0084
D35-D37	211.7431	1142525.951	5.8813	3871.1723	##	E100-OUT	122.0700	128.3896
D32-D31	9.3188	48014.4232	4.0110	365.3623	##	E131-OUT	117.8500	124.8276
D34-D33	8.7709	45151.2473	6.5957	223.0272	##	Node458	123.2600	126.6467
D38-D36	3.8691	20224.3840	6.1608	26.4808	##	C-15	114.2700	120.2182
D36-D35	8.4441	45619.1197	8.8474	111.9190	##	D33	114.0700	119.5726
L-A-10	61.8118	370079.0362	4.1306	2610.6755	##	D35	112.9000	119.0320
L-A-11	69.4554	432467.3757	4.8259	1206.7296	##	D32	116.6300	120.2553
L-A-12	69.3150	432479.7096	4.8010	1868.8004	##	D34	117.7900	119.6464
L-A-13	37.7757	186592.5087	3.0377	5957.4696	##	D38	120.5000	121.0784
L-A-14	49.8662	251626.4782	3.7490	4083.0140	##	D36	118.7700	119.7472
L-A-15	49.7997	251973.0656	3.5159	8853.4169	##	D37	112.8500	118.8500
L-A-16	55.9305	283780.0020	3.9399	2456.3847	##	A-1	132.8100	137.1959
L-A-17	55.9396	283929.0268	3.9429	3394.2464	##	A-10	131.3900	137.2717
L-A-18	60.5026	306819.3170	4.7248	2116.8552	##	A-11	132.6200	136.8805
L-A-19	60.5086	306953.7058	5.7127	2951.5212	##	A-12	132.2400	136.8044
L-A-20	65.2561	328430.3407	3.6124	3907.6604	##	A-13	130.0500	136.0186
L-A-21	65.2573	326014.4038	3.6012	632.7534	##	A-14	131.8600	136.2155
L-A-22	35.6669	158135.1424	2.8275	6290.2786	##	A-15	131.5200	135.9714
L-A-23	26.7557	120081.7928	2.7671	1798.9996	##	A-16	131.1300	135.7540
L-A-24	18.1792	82862.1022	1.8812	1066.2072	##	A-17	127.6700	134.6792
L-A-25	18.1558	83586.8367	2.5531	680.5199	##	A-18	127.0200	133.9735
L-A-26	10.1364	41621.8741	4.0276	299.8518	##	A-19	126.4200	133.2203
L-A-27	25.6416	116691.7125	2.6527	2020.7920	##	A-2	132.6600	137.1506
L-A-3	15.4750	70312.5715	1.9278	1751.2253	##	A-20	125.7200	132.2524
L-A-33	26.9622	159335.7084	3.7698	401.1849	##	A-21	129.5000	132.8725
L-A-35	8.5286	26784.7692	4.7855	119.0482	##	A-22	128.8900	132.2278
L-A-36	9.4923	28607.4349	5.3232	99.8087	##	A-23	128.1800	131.1265
L-A-37	71.2122	461133.0999	5.1592	4519.4583	##	A-24	127.4700	130.8321
L-A-39	8.4778	29441.4949	4.7628	105.1316	##	A-25	127.1600	130.8036
L-A-40	83.4660	540796.1880	5.1807	2738.9568	##	A-26	125.2900	130.7753
L-A-41	89.0628	570297.7856	5.5420	5436.0304	##	A-27	124.4900	130.9249
L-A-42	8.7002	29440.4168	4.9006	105.3584	##	A-28	122.7900	130.3971
L-A-43	11.8267	29565.9235	6.6374	105.3651	##	A-29	123.1400	130.4244
L-A-44	93.4540	597933.9496	6.0034	8127.9515	##	A-3	132.4500	137.0585
L-A-45	102.8904	704067.8737	4.8248	15664.0484	##	A-30	122.8500	130.7921
L-A-46	110.2566	744803.1493	4.7042	14450.4052	##	A-31	123.7400	130.5589
L-A-47	115.8490	777685.5917	4.8104	16894.9646	##	A-32	124.1000	130.8777
L-A-48	124.6241	816686.2808	5.1767	22901.3382	##	A-33	124.3900	130.8946
L-A-49	137.3996	869541.8363	5.7093	9647.6550	##	A-34	124.2300	130.7355
L-A-50	14.8912	69680.2328	3.0270	2669.2894	##	A-35	125.0000	130.9716
L-A-51	38.9160	186606.6633	7.9015	656.6913	##	A-36	125.2700	130.7739
L-A-53	15.9666	146505.7475	3.2459	1333.4900	##	A-37	126.0600	131.1219
L-A-54	31.6061	254490.8767	3.5192	2658.4225	##	A-38	126.8500	131.4674
L-A-55	31.5935	252336.3258	3.4033	2377.4855	##	A-39	135.5000	139.7520
L-A-56	35.7271	289379.7446	3.5203	3945.6986	##	A-4	132.2100	137.0157
L-A-57	35.7024	285846.9901	3.4392	3947.7801	##	A-40	134.9400	139.7204
L-A-58	39.4431	314705.6188	3.9145	1309.7219	##	A-41	133.8500	139.5929
L-A-59	-4.5738	16695.3657	-2.5883	531.9541	##	A-42	133.2800	139.2934
L-A-60	10.3811	42769.0812	3.2799	946.4361	##	A-43	131.9000	138.5589
L-A-61	16.9507	69621.7457	3.4350	210.9530	##	A-44	130.8500	138.1083
L-A-64	17.9400	64334.2489	5.6632	654.4191	##	A-45	129.9600	137.1356
L-A-65	18.6283	81475.2260	5.8918	984.3041	##	A-46	128.8700	136.4217
L-A-66	21.4183	122748.7691	4.4176	1428.2174	##	A-47	127.8800	135.7528
L-A-67	32.0504	190186.1490	4.5025	333.4572	##	A-48	127.2800	134.7358
L-A-68	31.9896	190202.5866	4.4947	4147.1697	##	A-49	132.0200	138.7658
L-A-73	32.6852	164065.3590	6.5908	277.8812	##	A-5	130.8500	136.7499
L-A-75	64.4339	413431.9098	5.1049	7903.5851	##	A-50	129.8600	136.5199

L-A-76	69.2833	435905.1953	5.4929	7903.5836	##	A-51	132.0200	138.7195
L-A-77	23.9322	113272.1467	4.8436	180.1082	##	A-52	126.6800	133.6183
L-A-78	88.7266	566632.6315	7.0324	7851.1646	##	A-53	125.7900	132.3324
L-A-79	16.5834	79690.8361	5.2541	115.2692	##	A-54	123.9200	131.5406
L-A-80	108.9477	659501.6207	8.6859	5461.7593	##	A-55	123.7000	131.2272
L-A-81	22.5026	107153.8276	4.8257	180.1082	##	A-56	128.2300	133.6688
L-A-82	133.9781	2186425.532	3.3420	17673.8369	##	A-57	127.8600	132.3438
L-A-83	134.1498	2200353.122	3.3455	15687.8967	##	A-58	126.0000	131.5434
L-A-84	5.8940	32960.8750	3.5022	554.3329	##	A-59	123.4800	131.3647
L-A-85	-6.2801	66513.0593	3.6572	275.6796	##	A-6	134.6500	137.9855
L-A-86	6.2366	95913.5101	3.2371	1165.5410	##	A-60	123.0500	131.1467
L-A-87	5.7261	94402.3846	2.9956	1238.4050	##	A-61	125.6900	131.1067
L-A-88	6.5534	116960.3806	2.4735	352.8370	##	A-62	127.5000	131.1267
L-A-89	137.9260	2310256.304	6.8655	888.6300	##	A-63	126.6200	131.1175
L-A-9	46.0691	210727.1876	4.5938	834.5908	##	A-7	134.0900	137.8663
L-A-90	138.1436	2328333.536	6.8772	2060.3063	##	A-8	133.0000	137.8306
L-A-91	138.4040	2380056.031	6.8920	1755.3738	##	A-9	132.1100	137.4743
L-A-92	139.6733	2533956.291	6.9563	605.7308	##	B-1	126.9800	127.7824
L-A-93	140.5623	2635470.404	6.9997	605.9366	##	B-10	124.5000	129.8202
L-A-94	147.5255	2960384.892	11.6788	724.8788	##	B-11	123.0000	128.8738
L-A-95	119.1686	4154898.186	7.4151	962.4472	##	B-12	122.8500	128.7005
L-B-1	2.5786	15044.5091	2.5646	305.5422	##	B-13	122.3100	128.8826
L-B-11	23.4419	112701.7969	7.4126	161.3769	##	B-14	120.5100	127.7461
L-B-12	116.9752	1880186.920	2.9215	22081.9066	##	B-15	119.7200	125.8093
L-B-13	119.1426	1991255.961	2.9745	6024.3032	##	B-16	122.2700	125.6409
L-B-14	13.0215	67412.0232	4.1017	161.3769	##	B-17	121.9800	125.6336
L-B-15	121.8750	2183337.113	3.0422	3745.8237	##	B-18	121.2100	125.6029
L-B-16	3.7784	15643.8830	2.1305	370.5101	##	B-19	120.4400	125.5818
L-B-17	7.3636	30447.0196	4.1536	369.8992	##	B-2	126.2500	127.4392
L-B-18	12.2557	62034.5959	4.8325	210.1062	##	B-20	120.3200	125.5748
L-B-19	17.4164	87447.6717	5.5139	796.3507	##	B-21	120.1100	125.5470
L-B-20	26.4850	149522.0885	2.7951	2940.8928	##	B-22	119.0600	125.4394
L-B-21	6.4704	26613.6076	3.6071	492.1534	##	B-23	118.8600	125.4151
L-B-23	26.1429	138668.8300	5.2992	2844.2196	##	B-24	118.1600	125.3885
L-B-24	27.8661	157653.9407	4.6700	359.7631	##	B-25	118.0600	125.3737
L-B-25	55.3208	334131.5368	3.4665	3310.1482	##	B-26	120.8500	125.4679
L-B-27	60.2687	364163.1481	3.7705	3423.0569	##	B-27	117.8300	125.3058
L-B-28	13.8032	57010.4369	4.3338	375.7059	##	B-28	117.6200	125.2244
L-B-29	68.3893	421227.1372	4.2734	6411.4357	##	B-29	117.5300	125.2368
L-B-30	68.4066	420630.0488	4.2744	9037.5961	##	B-3	123.8000	126.5725
L-B-31	22.9879	98664.5540	4.6289	423.9438	##	B-30	117.9300	125.5679
L-B-32	87.4498	517304.8609	5.4628	8497.8954	##	B-31	116.9000	125.1903
L-B-33	87.4697	513660.0619	5.4670	10086.4973	##	B-32	118.3800	125.8157
L-B-34	16.3424	67503.1090	5.1358	302.9242	##	B-33	120.7400	125.4458
L-B-35	102.0943	578109.2508	6.3847	1183.7405	##	B-34	116.9500	125.6168
L-B-36	1.9034	7873.2144	1.7039	454.8326	##	B-35	119.5500	125.5370
L-B-37	4.0034	16503.8881	2.4790	438.4578	##	B-36	119.5200	126.2871
L-B-38	5.9820	24706.7186	2.3202	700.8215	##	B-37	119.9100	125.6930
L-B-39	7.7966	32685.2086	1.1420	511.9460	##	B-38	119.2100	125.8666
L-B-4	27.1839	227044.8068	5.5762	850.4990	##	B-39	118.8600	125.9658
L-B-40	10.5588	46682.5298	1.7451	1106.4191	##	B-4	124.7500	130.1690
L-B-41	12.8902	59611.9093	1.8854	794.4215	##	B-40	118.7100	125.9977
L-B-42	12.8927	59745.3108	1.8153	1928.7621	##	B-41	118.0100	126.1188
L-B-43	14.7398	70392.5334	1.5250	1338.2282	##	B-42	117.8100	126.1432
L-B-44	16.5873	80619.1483	1.7157	1259.2241	##	B-43	122.5000	126.6278
L-B-45	20.6906	103033.4980	1.6391	1242.6813	##	B-44	117.2600	126.1582
L-B-46	4.9503	31947.5933	3.5559	82.2833	##	B-45	117.1100	126.1605
L-B-47	27.0846	144382.6670	2.1453	3093.2333	##	B-46	121.0000	126.3166
L-B-48	30.9477	165384.0806	2.4508	938.1466	##	B-47	117.1200	126.2883
L-B-49	30.9424	164770.2706	2.4503	1808.9496	##	B-48	122.4500	127.1364
L-B-5	-116.4347	1045974.532	3.6779	28043.3791	##	B-49	123.2100	127.1406
L-B-50	32.6389	173696.2405	2.5842	1028.6494	##	B-5	124.6200	130.1632
L-B-51	32.6297	173072.7375	2.5828	1071.6745	##	B-50	122.2000	127.0406
L-B-52	33.8693	234479.8140	3.5045	6428.3989	##	B-51	123.1500	126.8809

L-B-53	38.1464	296188.7501	3.0240	5950.6190	##	B-52	124.3800	126.6445
L-B-54	43.8800	360770.1572	3.4734	5268.1858	##	B-53	123.5900	126.4006
L-B-55	47.0573	383703.4816	3.7238	1429.5229	##	B-54	117.7100	126.8142
L-B-56	3.7439	23153.2069	1.7992	1552.5072	##	B-55	117.9600	126.9677
L-B-57	21.3404	102801.3958	3.0000	892.7174	##	B-56	118.1900	127.0509
L-B-58	25.0591	125603.8617	2.5896	3646.3782	##	B-57	118.5500	127.1212
L-B-59	25.0660	124645.4819	2.5875	646.3448	##	B-58	118.7000	127.1380
L-B-60	166.7784	5181462.823	4.7498	2109.5228	##	B-59	118.8000	127.1395
L-B-61	143.9387	4799553.048	4.0993	3034.7373	##	B-6	123.5900	129.2887
L-B-62	127.6889	4628655.165	3.6363	3148.6533	##	B-60	118.9300	127.1421
L-B-63	170.4842	3871033.153	10.6852	1804.4047	##	B-61	119.0000	127.1419
L-B-64	170.1117	3838454.272	10.6464	2547.6980	##	B-62	119.2400	127.1390
L-B-66	6.6191	114214.1859	2.4660	892.4720	##	B-63	119.3700	127.1262
L-B-67	6.6077	114087.5745	2.8314	472.2282	##	B-64	119.7500	126.9819
L-B-68	22.7600	101285.2009	3.1944	872.1541	##	B-7	126.8100	129.6714
L-B-69	-18.3546	101242.1213	2.1217	2139.7974	##	B-8	126.6100	129.4737
L-B-70	30.6756	185542.1877	3.1714	970.8032	##	B-9	125.5000	128.9817
L-B-71	28.5273	185641.4344	2.9504	452.1378	##	C-1	120.3400	126.3522
L-B-72	32.1844	254800.0560	3.3295	1975.2535	##	C-10	117.8600	121.9994
L-B-73	36.8734	285094.8967	2.9230	1362.5481	##	C-11	116.3600	122.0416
L-B-76	46.8891	419173.5719	2.9349	503.5540	##	C-12	116.8600	121.2671
L-B-77	46.8893	418907.2137	2.9349	1495.2897	##	C-13	115.8100	120.6848
L-B-78	46.8952	418618.5519	2.9350	914.1735	##	C-14	114.3700	120.4085
L-B-79	52.4374	499869.0919	3.2909	2126.2078	##	C-2	120.5000	126.3958
L-B-8	111.2856	1453190.024	3.0673	12013.1854	##	C-3	119.0000	123.8779
L-B-80	54.8312	500222.4124	3.4307	2636.7478	##	C-4	119.9200	123.9885
L-B-81	6.2032	25619.7836	3.4844	136.6394	##	C-5	117.6000	123.3909
L-B-82	56.9193	525302.9960	3.5607	1589.5581	##	C-6	118.9000	122.4031
L-B-83	61.5162	603334.1648	3.8483	3978.7638	##	C-7	117.3600	123.2424
L-B-84	99.8818	1137444.585	3.9816	6261.6191	##	C-8	118.2000	122.2726
L-B-85	113.2929	1370823.937	4.5162	7231.7995	##	C-9	116.9600	122.8336
L-B-86	115.6952	1410898.368	4.6122	2255.7660	##	D-1	121.1000	124.0845
L-B-87	130.0274	1657727.154	5.1837	2698.9473	##	D-10	119.2100	122.6090
L-B-88	4.6029	19039.1165	3.4828	62.6641	##	D-11	114.9200	120.4453
L-B-89	114.6867	1394023.494	4.5719	5578.8145	##	D-12	118.9800	122.2531
L-B-9	111.2896	1449384.116	2.8838	16018.0425	##	D-13	114.3300	120.3900
L-B-90	6.3287	26170.8594	4.0724	89.4351	##	D-14	118.6900	121.5772
L-B-91	6.1540	25429.8452	3.5442	102.8661	##	D-15	114.2400	120.3288
L-B-92	6.1732	25528.9238	3.4535	124.7205	##	D-16	121.5700	122.3010
L-B-93	3.3802	13990.9410	2.3233	128.9165	##	D-17	114.1900	120.1900
L-C-2	18.7278	95224.5704	4.2617	1049.2793	##	D-2	121.3000	123.8918
L-C-10	43.3153	263988.9283	3.4516	2147.3009	##	D-3	118.5200	120.8359
L-C-11	49.9818	302601.3392	3.9656	4439.5109	##	D-4	120.0000	123.1221
L-C-12	57.0941	337538.5244	4.5301	6590.2830	##	D-5	118.2200	120.6970
L-C-13	71.2510	410855.7399	5.6414	7296.0547	##	D-6	119.6600	123.0059
L-C-14	86.7500	491431.0805	6.7109	1132.9318	##	D-7	115.8800	120.5416
L-C-3	19.7291	103045.6111	3.3778	1209.3315	##	D-8	119.4600	122.8650
L-C-4	29.9396	155947.7505	3.1961	3399.0115	##	D-9	115.5200	120.5079
L-C-5	40.3632	208219.0520	4.0225	5029.0935	##	EX-1	132.8400	137.1959
L-C-6	58.6828	303499.0395	4.4976	7174.5682	##	EX-10	127.9400	131.0068
L-C-7	160.8973	880064.8060	5.3578	3918.3088	##	EX-11	127.3300	130.8202
L-C-9	31.3000	190561.5649	4.0780	5002.1697	##	EX-12	127.0600	130.7918
L-D-1	12.6233	167524.5036	3.1592	858.0831	##	EX-13	123.0000	130.7503
L-D-10	17.2212	65903.3892	2.7975	2885.1159	##	EX-14	122.8400	130.7466
L-D-11	25.8490	103091.5585	1.3700	3975.0493	##	EX-15	122.9500	130.9718
L-D-12	30.3515	120112.0802	1.5559	4867.3400	##	EX-16	126.1500	130.8706
L-D-13	34.3433	137900.9126	-2.1993	765.6010	##	EX-17	124.6900	130.9115
L-D-14	34.4041	137577.8164	2.1505	761.1499	##	EX-18	123.8500	130.8635
L-D-15	34.6510	137455.5513	-2.3292	3604.0563	##	EX-19	122.8600	130.8419
L-D-16	38.2865	152902.6356	1.3525	8332.0255	##	EX-2	132.7700	137.1898
L-D-17	112.0915	777326.1858	3.9437	4812.1645	##	EX-20	124.5500	130.9000
L-D-18	3.2345	16472.2389	3.1725	86.9863	##	EX-3	132.6000	137.1355
L-D-2	18.0495	195556.1873	4.4133	1129.3812	##	EX-4	132.4800	137.0643
L-D-3	26.5867	255592.6797	2.5118	3719.5196	##	EX-5	132.3800	137.0416

L-D-4	38.9733	349729.1372	3.4687	2313.2886	##	EX-6	131.1100	136.9437
L-D-5	47.2167	419656.9468	4.1472	2850.5832	##	EX-7	130.7500	136.6496
L-D-6	55.6309	491990.0077	4.9090	2624.8666	##	EX-8	130.5900	136.4978
L-D-7	62.0424	540290.0679	5.7123	3055.5375	##	EX-9	128.5100	131.2144
L-D-8	72.2656	600524.6326	7.5331	783.9579	##	MH-1	131.1600	137.0121
L-D-9	8.3856	29646.7999	1.6467	2337.4902	##	MH-10	128.2100	136.2760
L-E-8	-144.3070	2070727.640	-3.6450	19142.4338	##	MH-11	123.0900	131.2294
OL-B-1	0.0000	0.0000	0.0000	0.0000	##	MH-12	124.9700	131.1446
L-E100-P	-140.4383	-61928.6580	-6.6369	7814.0083	##	MH-14	123.1800	126.2208
L-E-7	-251.1147	1418391.961	-7.5048	10424.2485	##	MH-15	118.4100	126.0495
L-E-1	105.9244	787213.2360	3.7753	1413.0627	##	MH-16	117.0200	126.1614
L-E-2	104.9877	699143.5202	3.8134	1413.2345	##	MH-17	120.8000	128.8794
L-C-1	12.4009	49906.3605	2.5089	812.6481	##	MH-18	119.9800	128.8219
L-B-94	24.6614	110092.0951	3.4703	771.1758	##	MH-19	119.6900	128.7001
L-E-13	-134.4908	851014.6447	3.6831	2019.8899	##	MH-2	130.9400	136.7840
L-E-12	-160.5112	625703.6086	-4.0363	20793.8290	##	MH-20	119.4400	128.5474
L-E-11	-160.3516	627990.2422	-4.3160	6290.1645	##	MH-21	118.9600	128.1199
L-E-10	-160.2493	629043.4071	-4.6131	4541.7696	##	MH-22	118.3400	127.5204
L-E-9	-160.0858	630641.4076	-4.9244	10749.5271	##	MH-23	117.7300	126.5330
L-POND	-159.8759	632225.6743	-6.1205	3012.5877	##	MH-24	117.0200	125.3756
L-E-3	61.0239	294265.7428	5.6395	744.6580	##	MH-25	119.9400	125.5159
L-E-4	69.0964	367749.8727	5.5151	744.6783	##	MH-26	117.7600	125.2777
L-E-6	129.9987	661354.3876	5.8237	2388.9375	##	MH-27	117.4000	125.1907
ss bf63	46.3693	2735775.773	9.4280	1357.2567	##	MH-28	116.8800	125.1611
rd bf63	0.0000	0.0000	0.0000	0.0009	##	MH-29	116.8500	125.1655
SS-A-1	4.4697	10142.5882	0.5585	496.4074	##	MH-3	130.2000	136.0812
OL-A-1	1.6240	1956.5263	0.7848	439.3663	##	MH-30	118.8000	125.4190
SS-A-2	15.2995	60750.7768	1.9059	668.8697	##	MH-31	117.8800	125.2191
OL-A-2	-4.3352	-9425.6648	-0.9268	608.1883	##	MH-34	120.3400	126.9906
SS-A-28	3.9660	16335.5919	2.5763	351.6574	##	MH-35	119.5800	127.0588
OL-A-28	0.0993	96.9581	0.2862	212.7162	##	MH-36	119.2800	127.1351
SS-A-29	7.3099	22099.7542	4.1199	369.7184	##	MH-37	118.6800	127.1351
OL-A-29	4.1311	10840.2401	0.7837	2171.9379	##	MH-38	118.6000	127.1265
SS-A-30	12.6704	67721.6319	4.0129	658.2052	##	MH-39	118.4300	127.0975
OL-A-30	-1.0122	-2206.5123	-0.9864	301.3732	##	MH-4	129.8600	135.8270
SS-A-31	16.3200	86380.4730	3.1739	1124.4562	##	MH-40	118.2800	127.0702
OL-A-31	0.6798	997.0059	0.4988	326.3313	##	MH-41	117.2100	126.3704
SS-A-32	27.4343	159157.0841	3.7473	1703.9601	##	MH-42	117.4300	126.5677
OL-A-32	-0.3411	-146.5165	-0.8415	319.5952	##	MH-43	111.7300	120.4380
SS-A-34	65.8007	322775.1459	4.4685	1415.9118	##	MH-44	111.7300	120.4188
OL-A-34	25.0302	74452.2503	1.5291	1778.5010	##	MH-5	129.4700	135.4000
SS-A-38	76.1185	428923.4651	4.7259	2690.9413	##	MH-6	124.5600	130.9194
OL-A-38	25.8071	62100.2923	1.5953	2819.2869	##	MH-7	123.9700	130.6387
SS-A-4	27.1915	106308.5830	3.3885	693.1712	##	MH-8	123.4400	130.4916
OL-A-4	-12.2125	-35713.5177	-1.5338	968.5364	##	MH-9	130.7900	138.0330
SS-A-5	26.7534	132964.7185	2.6683	2726.5019	##	E-8	124.4000	131.7315
OL-A-5	4.0058	9006.0498	0.7121	1523.9818	##	Node755	126.5000	126.5000
SS-A-52	15.7448	117622.1481	3.2926	1749.2228	##	E131-Pond	121.1800	125.2841
OL-A-52	-7.8446	-24984.7829	-1.5190	4342.9640	##	E-10	120.7700	125.2553
SS-A-6	29.7688	112623.1135	2.9609	434.3909	##	E-13	119.9600	125.5870
OL-A-6	16.2452	29333.0274	2.3248	485.0728	##	E-12	120.4800	125.2461
SS-A-62	4.9386	11969.0759	2.9833	347.5241	##	E-11	120.6500	125.2514
OL-A-62	1.3800	4435.8912	0.3670	760.0000	##	E-7	124.6600	131.8105
SS-A-63	10.5990	23579.9893	5.9453	367.2980	##	E-1	124.7100	131.8188
OL-A-63	2.5418	9273.0260	0.7457	800.8080	##	E-2	124.7100	131.8151
SS-A-69	34.1118	205647.2568	4.7965	2963.6905	##	E100-Pond	124.7400	131.8114
OL-A-69	0.0000	0.0000	0.0000	1433.4349	##	MH-45	120.1300	126.3364
SS-A-7	50.8631	155122.2170	5.0675	863.2864	##	E-9	121.0800	125.2658
OL-A-7	-13.7496	-38277.0969	-0.9484	2850.3750	##	E-3	121.3340	125.2857
SS-A-70	8.1350	40816.2632	4.5055	738.4510	##	E-4	121.3340	125.2860
OL-A-70	0.0116	35.2906	0.1937	24.0000	##	E-6	121.2640	125.2856
SS-A-71	8.0293	41199.5442	4.4476	739.3037	##			
OL-A-71	0.0115	35.7889	0.1918	24.0000	##			
SS-A-72	42.1929	228818.2951	4.3571	1658.8030	##			

OL-A-72	-0.8657	-863.8488	-0.3158	1803.3404	##
SS-A-74	61.6877	393816.7373	4.8866	4421.1743	##
OL-A-74	0.0000	0.0000	0.0000	440.3672	##
SS-A-8	44.6462	147451.6452	4.4477	2167.2254	##
OL-A-8	18.3630	43478.0531	1.3485	2850.3750	##
SS-B-10	113.0050	1567791.081	2.8230	8021.8495	##
OL-B-10	0.0000	0.0000	0.0000	0.0000	##
SS-B-2	7.3835	37526.4463	4.9755	42.3531	##
OL-B-2	0.0000	0.0000	0.0000	0.0000	##
SS-B-22	28.7794	71611.8354	5.8390	451.7229	##
OL-B-22	-16.9217	-48724.3513	-1.5519	2721.4925	##
SS-B-26	8.0672	25508.9027	4.4930	105.9931	##
OL-B-26	-7.8172	-5989.7089	-0.7491	2655.7587	##
SS-B-3	19.8136	189803.5566	6.3063	151.8524	##
OL-B-3	0.0000	0.0000	0.0000	0.0000	##
SS-B-6	107.4791	1216070.960	3.3553	14014.4496	##
OL-B-6	0.0000	0.0000	0.0000	0.0000	##
SS-B-7	110.8477	1377233.764	3.1643	6014.4515	##
OL-B-7	0.0000	0.0000	0.0000	0.0000	##
SS-B-74	43.0032	256955.4314	3.4121	1801.8622	##
OL-B-74	-18.7307	-119465.669	-0.8130	3419.7919	##
SS-B-75	42.0035	249863.6153	3.3331	1331.3925	##
OL-B-75	-26.7277	-147810.254	-0.7178	5053.5027	##
C-1 SS	23.1383	78471.8776	3.2587	1553.9855	##
C-1 OL	-12.5577	-34387.4145	-1.7380	3827.2075	##
rect-orif	4.1378	74436.9688	8.7226	258.1186	##
Under HWY 6	44.6551	162294.2946	0.0000	0.0000	##
FREE # 1	139.1525	2736270.277	0.0000	0.0000	##
FREE # 2	243.3922	4228620.962	0.0000	0.0000	##
FREE # 3	329.8943	5175300.361	0.0000	0.0000	##
FREE # 4	214.2336	1157452.764	0.0000	0.0000	##
FREE # 5	116.5293	800743.5042	0.0000	0.0000	##
FREE # 6	44.6551	162295.5731	0.0000	0.0000	##

Table E15a - SPREADSHEET REACH LIST

Peak flow and Total Flow listed by Reach or those conduits or diversions having the same upstream and downstream nodes.

Upstream Node	Downstream Node	Maximum Flow (cfs)	Total Flow (ft^3)
B-F63	Node458	4.1347	74761.6254
MH-33	B-65	4.5302	74378.0446
MH-13	E100-OUT	243.3892	4228596.17
E131-OUT	MH-32	329.8943	5175205.60
C-15	D33	179.8334	977157.261
D33	D35	197.5359	1067401.98
D35	D37	211.7431	1142525.95
D32	C-15	9.3188	48014.4232
D34	D33	8.7709	45151.2473
D38	D36	3.8691	20224.3840
D36	D35	8.4441	45619.1197
EX-6	MH-2	61.8118	370079.036
A-5	EX-7	69.4554	432467.376
EX-7	EX-8	69.3150	432479.710
EX-9	A-23	37.7757	186592.509
A-23	EX-10	49.8662	251626.478
EX-10	A-24	49.7997	251973.066
A-24	EX-11	55.9305	283780.002
EX-11	A-25	55.9396	283929.027
A-25	EX-12	60.5026	306819.317
EX-12	A-26	60.5086	306953.706
A-26	EX-13	65.2561	328430.341
EX-13	EX-14	65.2573	326014.404
EX-18	EX-19	35.6669	158135.142
A-32	EX-18	26.7557	120081.793

EX-20	A-33	18.1792	82862.1022
EX-17	EX-20	18.1558	83586.8367
EX-16	EX-18	10.1364	41621.8741
A-33	A-32	25.6416	116691.712
EX-2	A-2	15.4750	70312.5715
MH-1	EX-6	26.9622	159335.708
A-11	MH-2	8.5286	26784.7692
A-12	EX-8	9.4923	28607.4349
EX-8	MH-3	71.2122	461133.100
A-14	MH-3	8.4778	29441.4949
A-13	MH-4	83.4660	540796.188
MH-4	MH-5	89.0628	570297.786
A-15	MH-4	8.7002	29440.4168
A-16	MH-5	11.8267	29565.9235
MH-5	A-17	93.4540	597933.950
A-17	A-18	102.8904	704067.874
A-18	A-19	110.2566	744803.149
A-19	A-20	115.8490	777685.592
A-20	A-27	124.6241	816686.281
A-27	A-28	137.3996	869541.836
A-21	A-22	14.8912	69680.2328
A-22	EX-9	38.9160	186606.663
MH-6	A-34	15.9666	146505.748
A-34	MH-7	31.6061	254490.877
MH-7	A-31	31.5935	252336.326
A-31	MH-8	35.7271	289379.745
MH-8	A-29	35.7024	285846.990
A-29	A-28	39.4431	314705.619
A-38	A-37	-4.5738	16695.3657
A-37	A-36	10.3811	42769.0812
A-36	A-34	16.9507	69621.7457
A-41	A-42	17.9400	64334.2489
A-42	A-43	18.6283	81475.2260
A-43	A-44	21.4183	122748.769
A-44	MH-9	32.0504	190186.149
MH-9	A-45	31.9896	190202.587
A-50	MH-10	32.6852	164065.359
A-47	A-48	64.4339	413431.910
A-48	A-52	69.2833	435905.195
A-56	A-52	23.9322	113272.147
A-52	A-53	88.7266	566632.632
A-57	A-53	16.5834	79690.8361
A-53	E-8	108.9477	659501.621
A-58	A-54	22.5026	107153.828
A-54	A-59	133.9781	2186425.53
A-59	MH-11	134.1498	2200353.12
A-62	A-63	5.8940	32960.8750
A-63	A-61	-6.2801	66513.0593
A-61	MH-12	6.2366	95913.5101
MH-12	A-55	5.7261	94402.3846
A-55	MH-11	6.5534	116960.381
MH-11	A-60	137.9260	2310256.30
A-4	EX-6	46.0691	210727.188
A-60	EX-15	138.1436	2328333.54
EX-15	EX-19	138.4040	2380056.03
EX-19	A-30	139.6733	2533956.29
A-30	EX-14	140.5623	2635470.40
EX-14	A-28	147.5255	2960384.89
A-28	MH-13	238.3372	4154898.19
B-1	B-2	2.5786	15044.5091
B-43	B-42	23.4419	112701.797
B-42	B-44	116.9752	1880186.92
B-44	B-45	119.1426	1991255.96
B-46	B-45	13.0215	67412.0232

B-45	MH-16	121.8750	2183337.11
B-7	B-8	3.7784	15643.8830
B-8	B-9	7.3636	30447.0196
B-9	MH-17	12.2557	62034.5959
B-10	MH-17	17.4164	87447.6717
MH-17	MH-18	26.4850	149522.089
B-6	MH-18	6.4704	26613.6076
B-5	B-11	26.1429	138668.830
B-11	MH-18	27.8661	157653.941
MH-18	MH-19	55.3208	334131.537
MH-19	MH-20	60.2687	364163.148
B-13	MH-20	13.8032	57010.4369
MH-20	MH-21	68.3893	421227.137
MH-21	MH-22	68.4066	420630.049
B-14	MH-22	22.9879	98664.5540
MH-22	MH-23	87.4498	517304.861
MH-23	MH-24	87.4697	513660.062
B-15	MH-24	16.3424	67503.1090
MH-24	B-31	102.0943	578109.251
B-16	B-17	1.9034	7873.2144
B-17	B-18	4.0034	16503.8881
B-18	B-19	5.9820	24706.7186
B-19	B-20	7.7966	32685.2086
MH-14	E-13	27.1839	227044.807
B-20	B-21	10.5588	46682.5298
B-21	MH-25	12.8902	59611.9093
MH-25	B-22	12.8927	59745.3108
B-22	B-23	14.7398	70392.5334
B-23	B-24	16.5873	80619.1483
B-24	B-25	20.6906	103033.498
B-26	B-25	4.9503	31947.5933
B-25	B-27	27.0846	144382.667
B-27	MH-26	30.9477	165384.081
MH-26	B-28	30.9424	164770.271
B-37	B-38	-116.4347	1045974.53
B-28	MH-27	32.6389	173696.241
MH-27	MH-28	32.6297	173072.738
B-36	B-32	33.8693	234479.814
B-32	B-30	38.1464	296188.750
B-30	B-29	43.8800	360770.157
B-29	MH-29	47.0573	383703.482
B-33	MH-30	3.7439	23153.2069
B-35	MH-30	21.3404	102801.396
MH-30	MH-31	25.0591	125603.862
MH-31	B-31	25.0660	124645.482
MH-29	MH-32	333.5567	5181462.82
MH-28	MH-29	287.8775	4799553.05
B-31	MH-28	255.3777	4628655.16
B-34	B-31	170.4842	3871033.15
MH-16	B-34	170.1117	3838454.27
B-65	MH-34	6.6191	114214.186
MH-34	B-64	6.6077	114087.575
B-64	MH-35	22.7600	101285.201
MH-35	B-63	-18.3546	101242.121
B-63	MH-36	30.6756	185542.188
MH-36	B-62	28.5273	185641.434
B-62	B-61	32.1844	254800.056
B-61	B-60	36.8734	285094.897
B-58	MH-37	46.8891	419173.572
MH-37	MH-38	46.8893	418907.214
MH-38	B-57	46.8952	418618.552
B-57	MH-39	52.4374	499869.092
B-40	MH-15	111.2856	1453190.02
MH-39	MH-40	54.8312	500222.412

B-49	MH-40	6.2032	25619.7836
MH-40	B-56	56.9193	525302.996
B-56	B-55	61.5162	603334.165
B-55	B-54	99.8818	1137444.59
B-54	MH-42	113.2929	1370823.94
MH-41	B-47	115.6952	1410898.37
B-47	MH-16	130.0274	1657727.15
B-53	MH-41	4.6029	19039.1165
MH-42	MH-41	114.6867	1394023.49
MH-15	B-41	111.2896	1449384.12
B-52	MH-42	6.3287	26170.8594
B-51	B-54	6.1540	25429.8452
B-50	B-55	6.1732	25528.9238
B-48	B-57	3.3802	13990.9410
C-4	C-3	18.7278	95224.5704
C-5	C-7	43.3153	263988.928
C-7	C-9	49.9818	302601.339
C-9	C-11	57.0941	337538.524
C-11	C-13	71.2510	410855.740
C-13	C-14	86.7500	491431.080
C-6	C-8	19.7291	103045.611
C-8	C-10	29.9396	155947.750
C-10	C-12	40.3632	208219.052
C-12	C-14	58.6828	303499.039
C-14	C-15	160.8973	880064.806
C-3	C-5	31.3000	190561.565
D-1	D-2	12.6233	167524.504
D-5	D-7	17.2212	65903.3892
D-7	D-9	25.8490	103091.559
D-9	D-11	30.3515	120112.080
D-11	MH-43	34.3433	137900.913
MH-43	MH-44	34.4041	137577.816
MH-44	D-13	34.6510	137455.551
D-13	D-15	38.2865	152902.636
D-15	D-17	112.0915	777326.186
D-16	D-17	3.2345	16472.2389
D-2	D-4	18.0495	195556.187
D-4	D-6	26.5867	255592.680
D-6	D-8	38.9733	349729.137
D-8	D-10	47.2167	419656.947
D-10	D-12	55.6309	491990.008
D-12	D-14	62.0424	540290.068
D-14	D-15	72.2656	600524.633
D-3	D-5	8.3856	29646.7999
E-8	A-54	-144.3070	2070727.64
E100-Pond	E-7	-421.3149	-61928.658
E-7	E-8	-251.1147	1418391.96
E-1	E-7	105.9244	787213.236
E-2	E-7	104.9877	699143.520
C-2	C-1	12.4009	49906.3605
MH-45	B-36	24.6614	110092.095
E-13	B-37	-134.4908	851014.645
E-12	E-13	-160.5112	625703.609
E-11	E-12	-160.3516	627990.242
E-10	E-11	-160.2493	629043.407
E-9	E-10	-160.0858	630641.408
E131-Pond	E-9	-159.8759	632225.674
E-3	E-6	61.0239	294265.743
E-4	E-6	69.0964	367749.873
E-6	E131-Pond	129.9987	661354.388
B-F63	B-F65	139.1080	2735775.77
EX-1	A-1	4.4697	12099.1144
A-1	EX-2	15.2995	70176.4416
A-6	A-7	3.9660	16432.5501

A-7	A-8	7.3099	32939.9943
A-8	A-9	12.6704	69928.1442
A-9	A-10	16.3200	87377.4789
A-10	MH-1	27.4343	159303.601
MH-2	A-5	65.8007	397227.396
MH-3	A-13	76.1185	491023.757
A-2	EX-3	27.1915	142022.101
EX-3	EX-4	26.7534	141970.768
A-35	MH-6	15.7448	142606.931
EX-4	A-3	29.7688	141956.141
A-39	A-40	4.9386	16404.9670
A-40	A-41	11.1330	32853.0154
A-45	A-46	34.1118	205647.257
A-3	EX-5	50.8631	193399.314
A-49	A-50	8.1465	40851.5538
A-51	A-50	8.0408	41235.3330
A-46	MH-10	42.1929	229682.144
MH-10	A-47	61.6877	393816.737
EX-5	A-4	44.6462	190929.698
B-41	B-42	113.0050	1567791.08
B-2	MH-14	7.3835	37526.4463
B-4	B-5	28.7794	120336.187
B-12	MH-19	8.1267	31498.6115
B-3	MH-14	19.8136	189803.557
B-38	B-39	107.4791	1216070.96
B-39	B-40	110.8477	1377233.76
B-60	B-59	43.6450	376421.101
B-59	B-58	42.0035	397673.869
C-1	MH-45	24.8719	112859.292
Node458	MH-33	4.1378	74436.9688
B-64	Node755	44.6551	162294.295

Table E19 - Junction Inflow & Outflow Listing
Units are either ft^3 or m^3 depending on the units in your model.

Junction Name	Constant Inflow to Node	User Inflow to Node	Interface Inflow to Node	DWF Inlow to Node	Inflow through Outfall	RNF Layer Inflow to Node	Outflow from Node	Evaporation from Node	Inflow from 2D Layer
MH-13	0.0000	84257.6386	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
B-F65	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2.7363E+06	0.0000	
B-F63	0.0000	2.8161E+06	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
B-65	0.0000	39942.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
E100-OUT	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	4.2286E+06	0.0000	
E131-OUT	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	5.1753E+06	0.0000	
C-15	0.0000	48825.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
D33	0.0000	45108.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
D35	0.0000	29223.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
D32	0.0000	48015.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
D34	0.0000	45153.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
D38	0.0000	20223.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
D36	0.0000	25407.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
D37	0.0000	14724.0000	0.0000	0.0000	-0.0069	0.0000	1.1575E+06	0.0000	
A-1	0.0000	58158.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
A-10	0.0000	71973.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
A-11	0.0000	26811.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
A-12	0.0000	28629.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
A-13	0.0000	49671.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
A-14	0.0000	29466.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
A-15	0.0000	29466.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
A-16	0.0000	29592.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
A-17	0.0000	103914.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
A-18	0.0000	40509.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
A-19	0.0000	34776.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
A-2	0.0000	71847.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
A-20	0.0000	45180.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	

A-21	0.0000	69678.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
A-22	0.0000	116874.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
A-23	0.0000	64719.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
A-24	0.0000	31437.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
A-25	0.0000	22725.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
A-26	0.0000	23616.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
A-27	0.0000	62298.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
A-28	0.0000	15471.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
A-29	0.0000	31590.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
A-3	0.0000	51165.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
A-30	0.0000	102132.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
A-31	0.0000	39690.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
A-32	0.0000	5085.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
A-33	0.0000	35082.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
A-34	0.0000	40198.5050	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
A-35	0.0000	142492.5150	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
A-36	0.0000	27225.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
A-37	0.0000	26505.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
A-38	0.0000	16389.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
A-39	0.0000	16425.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
A-4	0.0000	19944.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
A-40	0.0000	16425.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
A-41	0.0000	31131.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
A-42	0.0000	17271.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
A-43	0.0000	41409.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
A-44	0.0000	67203.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
A-45	0.0000	18504.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
A-46	0.0000	23184.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
A-47	0.0000	19134.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
A-48	0.0000	22275.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
A-49	0.0000	41229.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
A-5	0.0000	35406.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
A-50	0.0000	81513.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
A-51	0.0000	41607.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
A-52	0.0000	18180.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
A-53	0.0000	18180.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
A-54	0.0000	20763.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
A-55	0.0000	23373.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
A-56	0.0000	113418.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
A-57	0.0000	79731.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
A-58	0.0000	107271.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
A-59	0.0000	25695.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
A-6	0.0000	16425.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
A-60	0.0000	19665.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
A-61	0.0000	29925.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
A-62	0.0000	32976.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
A-63	0.0000	31329.0100	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
A-7	0.0000	16425.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
A-8	0.0000	36801.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
A-9	0.0000	17307.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
B-1	0.0000	15039.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
B-10	0.0000	87741.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
B-11	0.0000	18936.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
B-12	0.0000	31509.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
B-13	0.0000	57024.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
B-14	0.0000	98640.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
B-15	0.0000	67491.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
B-16	0.0000	7848.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
B-17	0.0000	8649.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
B-18	0.0000	8172.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
B-19	0.0000	7920.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
B-2	0.0000	22473.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
B-20	0.0000	13959.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
B-21	0.0000	12879.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

B-22	0.0000	10629.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
B-23	0.0000	10431.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
B-24	0.0000	22779.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
B-25	0.0000	10197.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
B-26	0.0000	31950.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
B-27	0.0000	21879.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
B-28	0.0000	9621.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
B-29	0.0000	24561.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
B-3	0.0000	189868.5550	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
B-30	0.0000	66766.5050	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
B-31	0.0000	56839.5250	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
B-32	0.0000	62932.5050	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
B-33	0.0000	23094.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
B-34	0.0000	33930.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
B-35	0.0000	102780.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
B-36	0.0000	124285.5150	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
B-37	0.0000	197716.6150	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
B-38	0.0000	173853.1600	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
B-39	0.0000	163453.6250	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
B-4	0.0000	120789.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
B-40	0.0000	78115.5150	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
B-41	0.0000	122472.0400	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
B-42	0.0000	205209.1400	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
B-43	0.0000	112761.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
B-44	0.0000	117729.0800	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
B-45	0.0000	127300.5950	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
B-46	0.0000	67464.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
B-47	0.0000	248247.5300	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
B-48	0.0000	13995.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
B-49	0.0000	25641.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
B-5	0.0000	18171.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
B-50	0.0000	25542.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
B-51	0.0000	25443.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
B-52	0.0000	26199.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
B-53	0.0000	19053.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
B-54	0.0000	210640.9250	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
B-55	0.0000	510561.4200	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
B-56	0.0000	78849.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
B-57	0.0000	67401.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
B-58	0.0000	20403.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
B-59	0.0000	20034.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
B-6	0.0000	26775.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
B-60	0.0000	91485.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
B-61	0.0000	30573.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
B-62	0.0000	69318.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
B-63	0.0000	84285.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
B-64	0.0000	149445.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
B-7	0.0000	15651.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
B-8	0.0000	14886.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
B-9	0.0000	31518.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
C-1	0.0000	62356.5050	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
C-10	0.0000	52263.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
C-11	0.0000	73098.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
C-12	0.0000	95121.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
C-13	0.0000	80649.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
C-14	0.0000	84924.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
C-2	0.0000	49851.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
C-3	0.0000	95283.0100	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
C-4	0.0000	95103.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
C-5	0.0000	73368.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
C-6	0.0000	103068.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
C-7	0.0000	38547.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
C-8	0.0000	52776.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
C-9	0.0000	34722.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

D-1	0.0000	167602.6950	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
D-10	0.0000	72265.5150	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
D-11	0.0000	17775.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
D-12	0.0000	48316.5050	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
D-13	0.0000	15561.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
D-14	0.0000	60264.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
D-15	0.0000	23121.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
D-16	0.0000	16470.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
D-17	0.0000	6165.0000	0.0000	0.0000	-0.0133	0.0000	800743.5042	0.0000
D-2	0.0000	28017.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
D-3	0.0000	29619.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
D-4	0.0000	60003.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
D-5	0.0000	36270.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
D-6	0.0000	94122.0100	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
D-7	0.0000	37098.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
D-8	0.0000	69867.0100	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
D-9	0.0000	16911.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
EX-1	0.0000	12051.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
EX-15	0.0000	53721.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
EX-16	0.0000	41769.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
EX-17	0.0000	83898.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Node755	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	162295.5731	0.0000
E131-Pond	0.0000	510036.9375	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
E-1	0.0000	787810.6050	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
E-2	0.0000	699759.0400	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
E100-Pond	0.0000	368235.0100	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
E-3	0.0000	294399.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
E-4	0.0000	367879.5050	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Table E20 - Junction Flooding and Volume Listing. The maximum volume is the total volume in the node including the volume in the flooded storage area. This is the max volume at any time. The volume in the flooded storage area is the total volume above the ground elevation, where the flooded pond storage area starts. The fourth column is instantaneous, the fifth is the sum of the flooded volume over the entire simulation. Units are either ft^3 or m^3 depending on the units.

Junction Name	Surcharged Time (min)	Flooded Time(min)	Out of 1D-System (Flooded Volume)	Maximum Volume	Passed to 2D cell OR Volume Stored in allowed Flood Pond of 1D-System
MH-32	0.0000	0.0000	0.0000	101.5428	0.0000
MH-13	0.0000	0.0000	0.0000	88.9400	0.0000
B-F65	0.0000	0.0000	0.0000	31.4150	0.0000
B-F63	0.0000	0.0000	0.0000	109190.7782	0.0000
MH-33	304.3333	0.0000	0.0000	80.1389	0.0000
B-65	274.8500	0.0000	0.0000	81.6585	0.0000
E100-OUT	0.0000	0.0000	0.0000	79.4120	0.0000
E131-OUT	0.0000	0.0000	0.0000	87.6800	0.0000
Node458	0.0000	0.0000	0.0000	42.5579	0.0000
C-15	52.8833	0.0000	0.0000	74.7454	0.0000
D33	50.4667	0.0000	0.0000	69.1448	0.0000
D35	47.7000	0.0000	0.0000	76.9884	0.0000
D32	56.1833	0.0000	0.0000	45.5548	0.0000
D34	0.0000	0.0000	0.0000	23.3276	0.0000
D38	0.0000	0.0000	0.0000	7.2678	0.0000
D36	0.0000	0.0000	0.0000	12.2793	0.0000
D37	0.0000	0.0000	0.0000	75.3960	0.0000
A-1	49.8500	49.8667	0.0000	592.8718	1093.0775
A-10	64.7333	57.4000	0.0000	1614.5577	2925.9667
A-11	69.3500	0.0000	0.0000	53.5369	0.0000
A-12	69.0583	0.0083	0.0000	57.4057	0.5077
A-13	45.2333	45.2333	0.0000	1707.6999	3628.9450
A-14	69.2167	0.0000	0.0000	54.7316	0.0000
A-15	69.9000	0.0000	0.0000	55.9360	0.0000
A-16	73.5667	0.0000	0.0000	58.1061	0.0000
A-17	81.0333	29.3083	0.0000	401.0068	406.5380

A-18	86.9667	0.0000	0.0000	87.3779	0.0000
A-19	95.7667	0.0000	0.0000	85.4527	0.0000
A-2	60.2833	60.3000	0.0000	2011.2904	2849.5053
A-20	124.7417	0.0000	0.0000	82.0864	0.0000
A-21	27.9667	0.0000	0.0000	42.3782	0.0000
A-22	33.6833	0.0000	0.0000	41.9428	0.0000
A-23	0.0000	0.0000	0.0000	37.0254	0.0000
A-24	81.6167	0.0000	0.0000	42.2476	0.0000
A-25	115.4833	0.0000	0.0000	45.7859	0.0000
A-26	335.1000	0.0000	0.0000	68.9283	0.0000
A-27	267.4833	0.0000	0.0000	80.8624	0.0000
A-28	378.0833	0.0000	0.0000	95.5931	0.0000
A-29	476.3833	0.0000	0.0000	91.5358	0.0000
A-3	55.4167	55.4167	0.0000	1762.4875	4165.3594
A-30	498.3167	125.9500	0.0000	1714.3470	1837.5112
A-31	388.2500	0.0000	0.0000	85.6864	0.0000
A-32	434.9833	0.0000	0.0000	85.1679	0.0000
A-33	397.7000	0.0000	0.0000	81.7364	0.0000
A-34	391.3667	0.0000	0.0000	81.7460	0.0000
A-35	155.2667	155.2667	0.0000	11193.7492	20828.7269
A-36	384.0667	0.0000	0.0000	69.1621	0.0000
A-37	328.4417	0.0000	0.0000	63.6083	0.0000
A-38	266.9667	0.0000	0.0000	58.0176	0.0000
A-39	59.8333	0.0000	0.0000	53.4302	0.0000
A-4	49.5500	49.5500	0.0000	1467.3405	3170.2603
A-40	66.7000	0.0000	0.0000	60.0699	0.0000
A-41	74.5167	74.5167	0.0000	4167.9090	5644.4435
A-42	81.1167	0.0000	0.0000	75.5641	0.0000
A-43	82.5500	75.9083	0.0000	2975.6259	3371.8991
A-44	84.3667	75.7250	0.0000	3240.6839	3607.7322
A-45	0.0000	0.0000	0.0000	90.1691	0.0000
A-46	35.3333	35.3333	0.0000	160.3672	2110.4633
A-47	0.0000	0.0000	0.0000	98.9292	0.0000
A-48	173.5500	0.0000	0.0000	93.6897	0.0000
A-49	52.9833	37.6667	0.0000	621.1153	653.0542
A-5	52.2167	52.2333	0.0000	2369.0604	3978.5162
A-50	9.9500	0.0000	0.0000	83.6885	0.0000
A-51	55.6667	55.6000	0.0000	1484.9269	1615.0736
A-52	216.4167	0.0000	0.0000	87.1861	0.0000
A-53	273.8500	0.0000	0.0000	82.2119	0.0000
A-54	321.0667	0.0000	0.0000	95.7608	0.0000
A-55	501.3833	0.0000	0.0000	94.5864	0.0000
A-56	213.1833	95.4333	0.0000	6140.7471	6663.4009
A-57	269.0333	30.1167	0.0000	347.7427	340.9269
A-58	364.6000	0.0000	0.0000	69.6583	0.0000
A-59	361.6250	0.0000	0.0000	99.0792	0.0000
A-6	0.0000	0.0000	0.0000	41.9141	0.0000
A-60	496.9167	47.6667	0.0000	131.6548	46.6251
A-61	462.0333	0.0000	0.0000	68.0658	0.0000
A-62	379.0833	60.4667	0.0000	77.3785	38.1474
A-63	438.3583	0.0000	0.0000	78187.4283	0.0000
A-7	0.0000	0.0000	0.0000	47.4528	0.0000
A-8	55.8500	36.6333	0.0000	342.3831	1174.1920
A-9	0.0000	0.0000	0.0000	67.4075	0.0000
B-1	0.0000	0.0000	0.0000	10.0826	0.0000
B-10	73.7083	71.4667	0.0000	7953.3245	8975.9372
B-11	74.1833	0.0000	0.0000	73.8107	0.0000
B-12	53.2500	53.2500	0.0000	2702.1234	6083.9411
B-13	89.0667	0.0000	0.0000	82.5907	0.0000
B-14	146.0500	0.0000	0.0000	90.9290	0.0000
B-15	276.2667	0.0000	0.0000	76.5179	0.0000
B-16	75.6500	0.0000	0.0000	42.3592	0.0000
B-17	83.4083	0.0000	0.0000	45.9114	0.0000
B-18	91.9167	0.0000	0.0000	55.2007	0.0000

B-19	100.8333	0.0000	0.0000	64.6116	0.0000
B-2	0.0000	0.0000	0.0000	14.9431	0.0000
B-20	107.9000	0.0000	0.0000	66.0314	0.0000
B-21	128.6000	0.0000	0.0000	68.3215	0.0000
B-22	176.3667	0.0000	0.0000	80.1638	0.0000
B-23	187.8833	0.0000	0.0000	82.3711	0.0000
B-24	206.3833	0.0000	0.0000	90.8335	0.0000
B-25	219.7500	0.0000	0.0000	91.9041	0.0000
B-26	188.2000	0.0000	0.0000	58.0282	0.0000
B-27	257.2000	0.0000	0.0000	93.9410	0.0000
B-28	291.6833	0.0000	0.0000	95.5577	0.0000
B-29	302.2667	0.0000	0.0000	96.8436	0.0000
B-3	0.0000	0.0000	0.0000	34.8397	0.0000
B-30	241.9833	0.0000	0.0000	95.9780	0.0000
B-31	247.7833	0.0000	0.0000	104.1300	0.0000
B-32	187.0333	0.0000	0.0000	93.4373	0.0000
B-33	115.6167	0.0000	0.0000	59.1332	0.0000
B-34	349.7333	0.0000	0.0000	108.8962	0.0000
B-35	176.4167	0.0000	0.0000	75.2327	0.0000
B-36	146.8500	32.7167	0.0000	174.7432	95.5729
B-37	169.9250	0.0000	0.0000	72.6696	0.0000
B-38	0.0000	0.0000	0.0000	83.6465	0.0000
B-39	0.0000	0.0000	0.0000	89.2915	0.0000
B-4	49.7667	49.7667	0.0000	3383.0242	5895.4309
B-40	0.0000	0.0000	0.0000	91.5776	0.0000
B-41	0.0000	0.0000	0.0000	101.8952	0.0000
B-42	0.0000	0.0000	0.0000	104.7148	0.0000
B-43	171.9000	15.4667	0.0000	81.9197	50.3441
B-44	327.3333	0.0000	0.0000	111.8158	0.0000
B-45	275.7333	14.3000	0.0000	115.7740	4.7475
B-46	268.5333	131.0500	0.0000	3594.2765	3942.9517
B-47	334.3667	0.0000	0.0000	115.2085	0.0000
B-48	201.7167	0.0000	0.0000	58.8888	0.0000
B-49	173.4000	0.0000	0.0000	49.3918	0.0000
B-5	45.1667	0.0000	0.0000	69.6559	0.0000
B-50	216.9500	0.0000	0.0000	60.8264	0.0000
B-51	170.9833	0.0000	0.0000	46.8824	0.0000
B-52	71.9917	0.0000	0.0000	28.4559	0.0000
B-53	135.5833	0.0000	0.0000	35.3176	0.0000
B-54	173.8167	24.3000	0.0000	552.7718	445.1359
B-55	230.7833	106.5000	0.0000	8313.7142	8603.3345
B-56	292.6833	21.5167	0.0000	371.5391	293.9164
B-57	215.0833	132.4667	0.0000	9666.3932	9722.0559
B-58	123.6833	0.0000	0.0000	29568.8107	0.0000
B-59	149.8500	37.9333	0.0000	159.4160	1371.8816
B-6	78.6167	0.0000	0.0000	71.6101	0.0000
B-60	167.5167	167.5333	0.0000	43062.7695	51410.8645
B-61	272.3500	143.6333	0.0000	11101.6960	11494.9692
B-62	290.9500	169.2833	0.0000	12834.2308	13282.8539
B-63	282.0500	135.8000	0.0000	9464.7460	10193.4401
B-64	290.9750	160.3833	0.0000	6833.5475	8045.5860
B-7	55.1333	0.0000	0.0000	35.9560	0.0000
B-8	58.4500	0.0000	0.0000	35.9847	0.0000
B-9	65.0333	31.1667	0.0000	531.5308	526.0249
C-1	68.2333	68.2333	0.0000	3313.2329	6735.1777
C-10	24.4000	0.0000	0.0000	52.0154	0.0000
C-11	47.0167	0.0000	0.0000	71.3953	0.0000
C-12	21.1167	0.0000	0.0000	55.3795	0.0000
C-13	43.7167	0.0000	0.0000	61.2567	0.0000
C-14	15.3500	0.0000	0.0000	75.8795	0.0000
C-2	149.2000	87.6833	0.0000	9688.0000	10574.4827
C-3	27.2333	0.0000	0.0000	61.2955	0.0000
C-4	22.0000	0.0000	0.0000	51.1242	0.0000
C-5	36.5333	0.0000	0.0000	72.7681	0.0000

C-6	19.3833	0.0000	0.0000	44.0197	0.0000
C-7	39.3667	0.0000	0.0000	73.9178	0.0000
C-8	22.0167	0.0000	0.0000	51.1765	0.0000
C-9	42.8167	0.0000	0.0000	73.8072	0.0000
D-1	0.0000	0.0000	0.0000	37.5033	0.0000
D-10	0.0000	0.0000	0.0000	42.7122	0.0000
D-11	1.2500	0.0000	0.0000	69.4310	0.0000
D-12	0.0000	0.0000	0.0000	41.1293	0.0000
D-13	3.4833	0.0000	0.0000	76.1500	0.0000
D-14	0.0000	0.0000	0.0000	36.2806	0.0000
D-15	0.0000	0.0000	0.0000	76.5120	0.0000
D-16	0.0000	0.0000	0.0000	9.1860	0.0000
D-17	0.0000	0.0000	0.0000	75.3960	0.0000
D-2	0.0000	0.0000	0.0000	32.5685	0.0000
D-3	0.0000	0.0000	0.0000	29.1006	0.0000
D-4	0.0000	0.0000	0.0000	39.2317	0.0000
D-5	0.0000	0.0000	0.0000	31.1262	0.0000
D-6	0.0000	0.0000	0.0000	42.0440	0.0000
D-7	0.0000	0.0000	0.0000	58.5779	0.0000
D-8	0.0000	0.0000	0.0000	42.7873	0.0000
D-9	0.0000	0.0000	0.0000	62.6774	0.0000
EX-1	0.0000	0.0000	0.0000	54.7364	0.0000
EX-10	6.8333	0.0000	0.0000	38.5373	0.0000
EX-11	98.8000	0.0000	0.0000	43.8574	0.0000
EX-12	126.0167	0.0000	0.0000	46.8940	0.0000
EX-13	502.6333	0.0000	0.0000	97.3906	0.0000
EX-14	498.3667	0.0000	0.0000	99.3508	0.0000
EX-15	497.6667	0.0000	0.0000	100.8049	0.0000
EX-16	365.4667	0.0000	0.0000	59.3190	0.0000
EX-17	424.4000	0.0000	0.0000	78.1789	0.0000
EX-18	402.9833	0.0000	0.0000	88.1321	0.0000
EX-19	489.9000	0.0000	0.0000	100.3012	0.0000
EX-2	0.0000	0.0000	0.0000	55.5393	0.0000
EX-20	378.3833	0.0000	0.0000	79.7947	0.0000
EX-3	32.2500	0.0000	0.0000	56.9928	0.0000
EX-4	9.9000	0.0000	0.0000	57.6058	0.0000
EX-5	27.2167	0.0000	0.0000	58.5782	0.0000
EX-6	69.6500	0.0000	0.0000	73.3073	0.0000
EX-7	69.4250	0.0000	0.0000	74.1348	0.0000
EX-8	69.7583	0.0000	0.0000	74.2372	0.0000
EX-9	0.0000	0.0000	0.0000	33.9836	0.0000
MH-1	0.0000	0.0000	0.0000	73.5395	0.0000
MH-10	0.0000	0.0000	0.0000	101.3569	0.0000
MH-11	397.9500	0.0000	0.0000	102.2811	0.0000
MH-12	498.2500	0.0000	0.0000	77.5898	0.0000
MH-14	0.0000	0.0000	0.0000	38.2108	0.0000
MH-15	266.3667	0.0000	0.0000	95.9980	0.0000
MH-16	341.6000	0.0000	0.0000	114.8717	0.0000
MH-17	65.5417	0.0000	0.0000	101.5259	0.0000
MH-18	74.2500	0.0000	0.0000	111.1077	0.0000
MH-19	0.0000	0.0000	0.0000	113.2205	0.0000
MH-2	45.9000	0.0000	0.0000	73.4353	0.0000
MH-20	95.7667	20.3167	0.0000	114.4431	4.1132
MH-21	110.6333	0.0000	0.0000	115.1033	0.0000
MH-22	160.8500	0.0000	0.0000	115.3614	0.0000
MH-23	200.0167	0.0000	0.0000	110.6186	0.0000
MH-24	304.7000	0.0000	0.0000	104.9874	0.0000
MH-25	148.6333	0.0000	0.0000	70.0670	0.0000
MH-26	268.1500	0.0000	0.0000	94.4683	0.0000
MH-27	317.3333	0.0000	0.0000	97.8993	0.0000
MH-28	249.3667	0.0000	0.0000	104.0668	0.0000
MH-29	252.5583	0.0000	0.0000	104.0552	0.0000
MH-3	28.5167	0.0000	0.0000	73.9028	0.0000
MH-30	192.2500	0.0000	0.0000	83.1742	0.0000

MH-31	320.0167	0.0000	0.0000	92.2237	0.0000	
MH-34	285.7000	0.0000	0.0000	83.5714	0.0000	
MH-35	267.8167	147.2333	0.0000	6527.3797	7058.8050	
MH-36	288.4000	157.3833	0.0000	11812.3049	12615.0382	
MH-37	256.1500	0.0000	0.0000	106.2466	0.0000	
MH-38	263.5167	35.0333	0.0000	107.1437	1.8493	
MH-39	276.5000	0.0000	0.0000	11178.3258	0.0000	
MH-4	73.9500	0.0000	0.0000	74.9831	0.0000	
MH-40	176.6000	0.0000	0.0000	5450.0451	0.0000	
MH-41	144.2333	0.0000	0.0000	115.1107	0.0000	
MH-42	75.4750	0.0000	0.0000	114.8242	0.0000	
MH-43	1.3667	0.0000	0.0000	109.4242	0.0000	
MH-44	1.3833	0.0000	0.0000	109.1828	0.0000	
MH-5	75.9833	0.0000	0.0000	74.5158	0.0000	
MH-6	0.0000	0.0000	0.0000	79.9126	0.0000	
MH-7	433.0833	0.0000	0.0000	83.7988	0.0000	
MH-8	436.3167	0.0000	0.0000	88.6108	0.0000	
MH-9	84.5167	0.0000	0.0000	91.0155	0.0000	
E-8	269.7000	0.0000	0.0000	92.1289	0.0000	
Node755	0.0000	0.0000	0.0000	0.0000	0.0000	
E131-Pond	0.0000	0.0000	0.0000	1637796.553	0.0000	
E-10	0.0000	0.0000	0.0000	56.3620	0.0000	
E-13	50.6000	0.0000	0.0000	70.7086	0.0000	
E-12	0.0000	0.0000	0.0000	59.8911	0.0000	
E-11	0.0000	0.0000	0.0000	57.8215	0.0000	
E-7	246.8667	0.0000	0.0000	89.8538	0.0000	
E-1	329.0333	0.0000	0.0000	89.3286	0.0000	
E-2	329.0167	0.0000	0.0000	89.2824	0.0000	
E100-Pond	239.9167	0.0000	0.0000	2004487.598	0.0000	
MH-45	46.1417	0.0000	0.0000	77.9897	0.0000	
E-9	0.0000	0.0000	0.0000	52.5989	0.0000	
E-3	0.0000	0.0000	0.0000	49.6575	0.0000	
E-4	0.0000	0.0000	0.0000	49.6608	0.0000	
E-6	0.0000	0.0000	0.0000	50.5360	0.0000	

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| Simulation Specific Information |
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Number of Input Conduits.....	280	Number of Simulated Conduits.....	288
Number of Natural Channels.....	3	Number of Junctions.....	252
Number of Storage Junctions.....	93	Number of Weirs.....	1
Number of Orifices.....	1	Number of Pumps.....	0
Number of Free Outfalls.....	6	Number of Tide Gate Outfalls.....	0

===
| Average % Change in Junction or Conduit is defined as: |
| Conduit % Change ==> 100.0 (Q(n+1) - Q(n)) / Qfull |
| Junction % Change ==> 100.0 (Y(n+1) - Y(n)) / Yfull |
===

The Conduit with the largest average change was..L-D-17 with 1.747 percent
The Junction with the largest average change was.D-17 with 0.337 percent
The Conduit with the largest sinuosity was.....L-A-59 with 88.766

==
| Table E21. Continuity balance at the end of the simulation |
| Junction Inflow, Outflow or Street Flooding |
| Error = Inflow + Initial Volume - Outflow - Final   Volume |
==

Inflow Junction	Inflow Volume,ft^3	Average Inflow, cfs
MH-13	84257.5038	0.9752
B-F63	2.81613E+06	32.5941
B-65	39941.9172	0.4623
C-15	48824.9120	0.5651
D33	45107.9176	0.5221
D35	29222.9460	0.3382
D32	48014.9206	0.5557
D34	45152.9250	0.5226
D38	20222.9892	0.2341
D36	25406.9573	0.2941
D37	14723.9931	0.1704
A-1	58157.8558	0.6731
A-10	71972.9543	0.8330
A-11	26810.9334	0.3103
A-12	28628.9289	0.3314

A-13	49670.9673	0.5749
A-14	29465.9270	0.3410
A-15	29465.9270	0.3410
A-16	29591.9265	0.3425
A-17	103913.7930	1.2027
A-18	40508.9299	0.4689
A-19	34775.9828	0.4025
A-2	71846.9574	0.8316
A-20	45179.9234	0.5229
A-21	69677.8437	0.8065
A-22	116873.7700	1.3527
A-23	64718.8683	0.7491
A-24	31436.9222	0.3639
A-25	22724.9452	0.2630
A-26	23615.9444	0.2733
A-27	62297.8776	0.7210
A-28	15471.0029	0.1791
A-29	31589.9409	0.3656
A-3	51164.9666	0.5922
A-30	102131.7639	1.1821
A-31	39689.9744	0.4594
A-32	5084.9877	0.0589
A-33	35081.9126	0.4060
A-34	40198.5060	0.4653
A-35	142492.5704	1.6492
A-36	27224.9321	0.3151
A-37	26504.9339	0.3068
A-38	16388.9595	0.1897
A-39	16424.9593	0.1901
A-4	19943.9880	0.2308
A-40	16424.9593	0.1901
A-41	31130.9803	0.3603
A-42	17270.9571	0.1999
A-43	41408.9767	0.4793
A-44	67202.8617	0.7778
A-45	18503.9543	0.2142
A-46	23183.9427	0.2683
A-47	19133.9530	0.2215
A-48	22274.9448	0.2578
A-49	41228.9095	0.4772
A-5	35405.9778	0.4098
A-50	81512.8422	0.9434
A-51	41606.9089	0.4816
A-52	18179.9548	0.2104
A-53	18179.9548	0.2104
A-54	20762.9484	0.2403
A-55	23372.9249	0.2705
A-56	113417.7634	1.3127
A-57	79730.8376	0.9228
A-58	107270.7759	1.2416
A-59	25694.9378	0.2974
A-6	16424.9593	0.1901
A-60	19664.9665	0.2276
A-61	29924.9393	0.3464
A-62	32975.9789	0.3817
A-63	31329.0249	0.3626
A-7	16424.9593	0.1901
A-8	36800.9769	0.4259
A-9	17306.9571	0.2003
B-1	15038.9901	0.1741
B-10	87740.8170	1.0155
B-11	18935.9876	0.2192
B-12	31508.9218	0.3647
B-13	57023.8170	0.6600

B-14	98639.7166	1.1417
B-15	67490.7840	0.7811
B-16	7847.9808	0.0908
B-17	8648.9786	0.1001
B-18	8171.9799	0.0946
B-19	7919.9811	0.0917
B-2	22472.9493	0.2601
B-20	13958.9945	0.1616
B-21	12878.9926	0.1491
B-22	10628.9810	0.1230
B-23	10430.9937	0.1207
B-24	22778.9858	0.2636
B-25	10196.9952	0.1180
B-26	31949.9844	0.3698
B-27	21878.9588	0.2532
B-28	9620.9823	0.1114
B-29	24560.9537	0.2843
B-3	189868.6444	2.1976
B-30	66766.5069	0.7728
B-31	56839.5574	0.6579
B-32	62932.5071	0.7284
B-33	23093.9865	0.2673
B-34	33929.9159	0.3927
B-35	102779.7925	1.1896
B-36	124285.5181	1.4385
B-37	197716.6946	2.2884
B-38	173853.2466	2.0122
B-39	163453.7008	1.8918
B-4	120788.8443	1.3980
B-40	78115.5398	0.9041
B-41	122472.0769	1.4175
B-42	205209.2369	2.3751
B-43	112760.7624	1.3051
B-44	117729.1362	1.3626
B-45	127300.6539	1.4734
B-46	67463.8530	0.7808
B-47	248247.6024	2.8732
B-48	13994.9651	0.1620
B-49	25640.9362	0.2968
B-5	18170.9551	0.2103
B-50	25541.9370	0.2956
B-51	25442.9366	0.2945
B-52	26198.9352	0.3032
B-53	19052.9534	0.2205
B-54	210640.9932	2.4380
B-55	510561.5935	5.9093
B-56	78848.9515	0.9126
B-57	67400.9634	0.7801
B-58	20402.9513	0.2361
B-59	20033.9932	0.2319
B-6	26774.9334	0.3099
B-60	91484.9546	1.0589
B-61	30572.9841	0.3539
B-62	69317.8770	0.8023
B-63	84284.9514	0.9755
B-64	149444.7788	1.7297
B-7	15650.9613	0.1811
B-8	14885.9635	0.1723
B-9	31517.9801	0.3648
C-1	62356.4842	0.7217
C-10	52262.9106	0.6049
C-11	73097.8793	0.8460
C-12	95120.8524	1.1009
C-13	80648.8703	0.9334

C-14	84923.8668	0.9829
C-2	49850.8931	0.5770
C-3	95283.0119	1.1028
C-4	95102.8355	1.1007
C-5	73367.9553	0.8492
C-6	103067.8349	1.1929
C-7	38546.9779	0.4461
C-8	52775.9108	0.6108
C-9	34721.9324	0.4019
D-1	167602.7688	1.9398
D-10	72265.5377	0.8364
D-11	17774.9617	0.2057
D-12	48316.5059	0.5592
D-13	15560.9682	0.1801
D-14	60263.9633	0.6975
D-15	23120.9862	0.2676
D-16	16469.9931	0.1906
D-17	6164.9867	0.0714
D-2	28016.9486	0.3243
D-3	29618.9346	0.3428
D-4	60003.0117	0.6945
D-5	36269.9242	0.4198
D-6	94122.0121	1.0894
D-7	37097.9302	0.4294
D-8	69867.0324	0.8086
D-9	16910.9626	0.1957
EX-1	12050.9928	0.1395
EX-15	53720.8672	0.6218
EX-16	41768.8966	0.4834
EX-17	83897.8083	0.9710
E131-Pond	510036.9481	5.9032
E-1	787810.6564	9.1182
E-2	699758.8411	8.0991
E100-Pond	368234.7803	4.2620
E-3	294398.4072	3.4074
E-4	367878.9543	4.2579
B-F65	-2.736E+06	-31.6698
E100-OUT	-4.229E+06	-48.9424
E131-OUT	-5.175E+06	-59.8993
D37	-1.157E+06	-13.3964
D-17	-800743.5042	-9.2679
Node755	-162295.5731	-1.8784

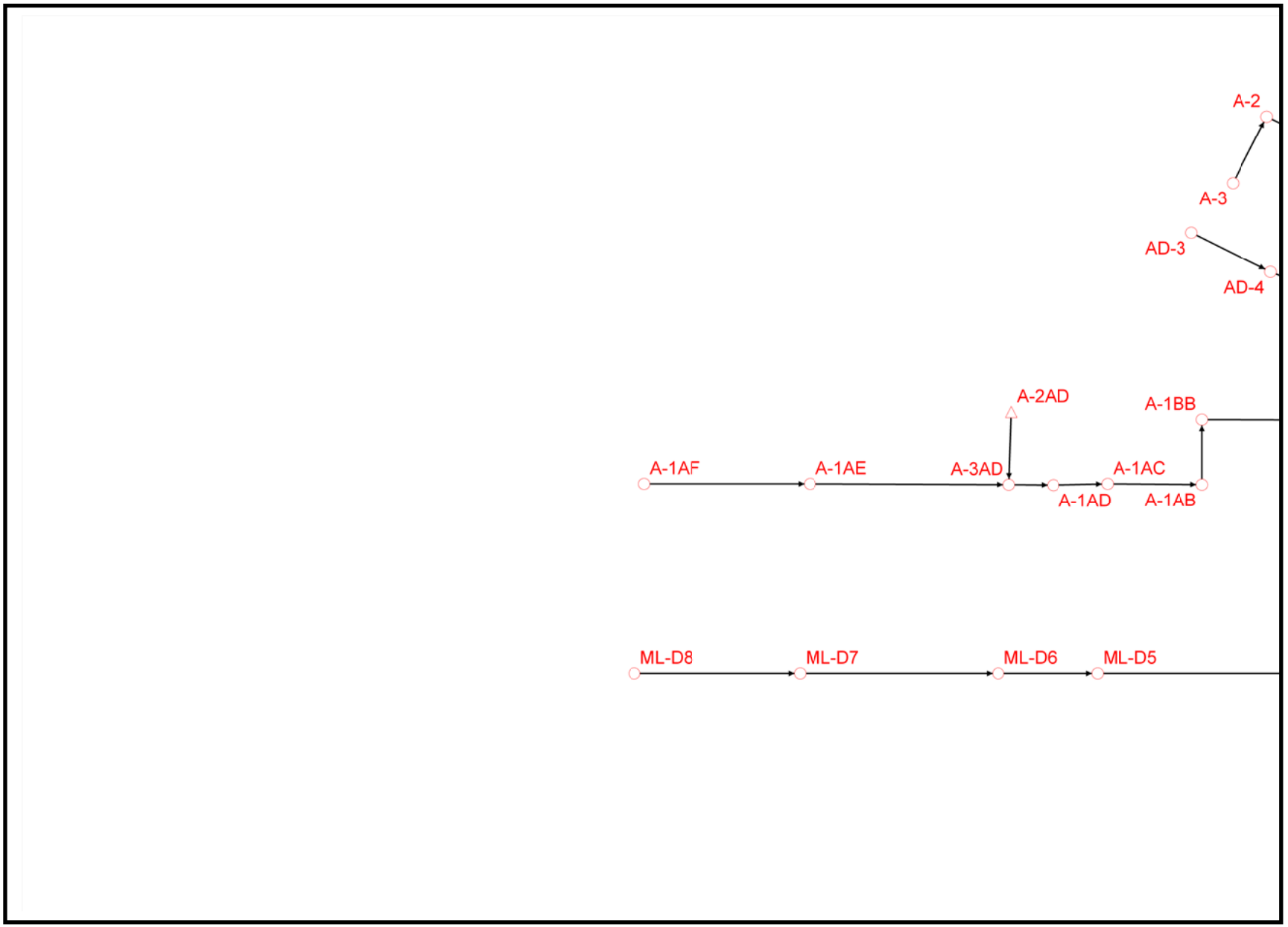
Outflow Junction	Outflow Volume,ft^3	Average Outflow, cfs
B-F65	2.73627E+06	31.6698
E100-OUT	4.22862E+06	48.9424
E131-OUT	5.17530E+06	59.8993
D37	1.15745E+06	13.3964
D-17	800743.5042	9.2679
Node755	162295.5731	1.8784

```
*====================================================*
| Initial system volume        =         0.0000 Cu Ft |
| Total system inflow volume   =  15.443434E+06 Cu Ft |
| Inflow + Initial volume      =  15.443434E+06 Cu Ft |
*====================================================*
| Total system outflow         =  14.260683E+06 Cu Ft |
| Volume left in system        =   1.250984E+06 Cu Ft |
| Evaporation                  =         0.0000 Cu Ft |
| Outflow + Final Volume       =  15.511668E+06 Cu Ft |
*====================================================*

*================================================*
| Total Model Continuity Error                   |
| Error in Continuity, Percent =        -0.4418 |
| Error in Continuity, ft^3    =     -68233.549 |
```

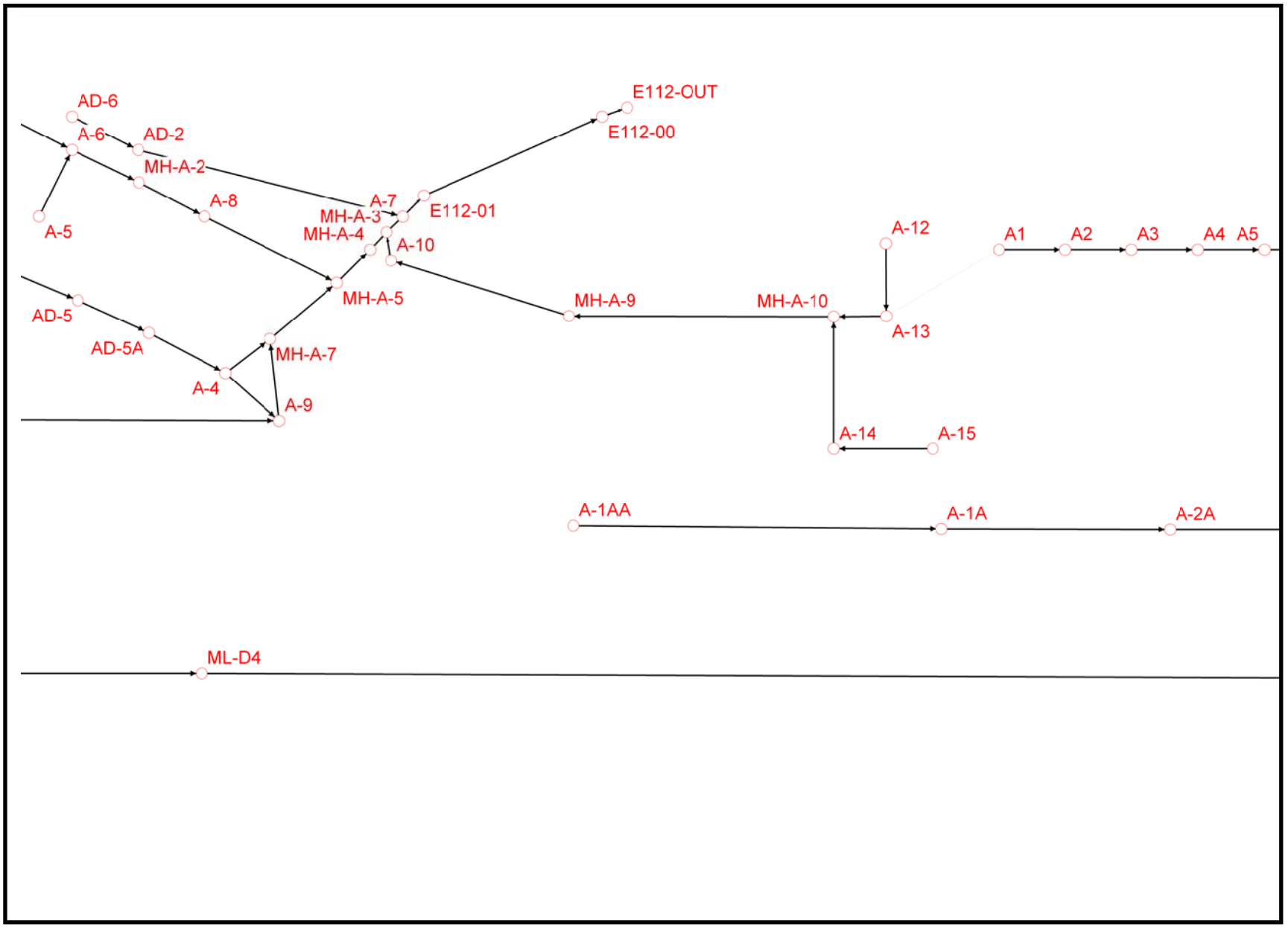
```
| + Error means a continuity loss, - a gain     |
*================================================*

################################################
# Table E22. Numerical Model judgement section #
################################################

Your overall error was                                -0.4418 percent


Worst nodal error was in node E100-Pond        with       -23.9723 percent


Of the total inflow this loss was                      0.6678 percent


Your overall continuity error was                  Excellent


                                                  Excellent Efficiency


Efficiency of the simulation                       1.49


Most Number of Non Convergences at one Node        0.


Total Number Non Convergences at all Nodes         0.


Total Number of Nodes with Non Convergences        0.



===> Hydraulic model simulation ended normally.
===> XP-SWMM Simulation ended normally.


===> Your input file was named  : P:\PROJECTS\290PMC\PhaseII\DRA\Models\SWMM\Segment E\100YR_SegE_Mitigation-Alt1.DAT
===> Your output file was named : P:\PROJECTS\290PMC\PhaseII\DRA\Models\SWMM\Segment E\100YR_SegE_Mitigation-Alt1.out

*================================================================*
|             SWMM Simulation Date and Time Summary              |
*================================================================*
| Starting Date... October    22, 2009  Time...    9:38:55:12    |
|   Ending Date... October    22, 2009  Time...    9:47: 7:34    |
|  Elapsed Time...    8.20367 minutes or    492.22000 seconds    |
*================================================================*
```

OUTFALLS 5-6
SWMM OUTPUT
100 YR- EXISTING CONDITIONS

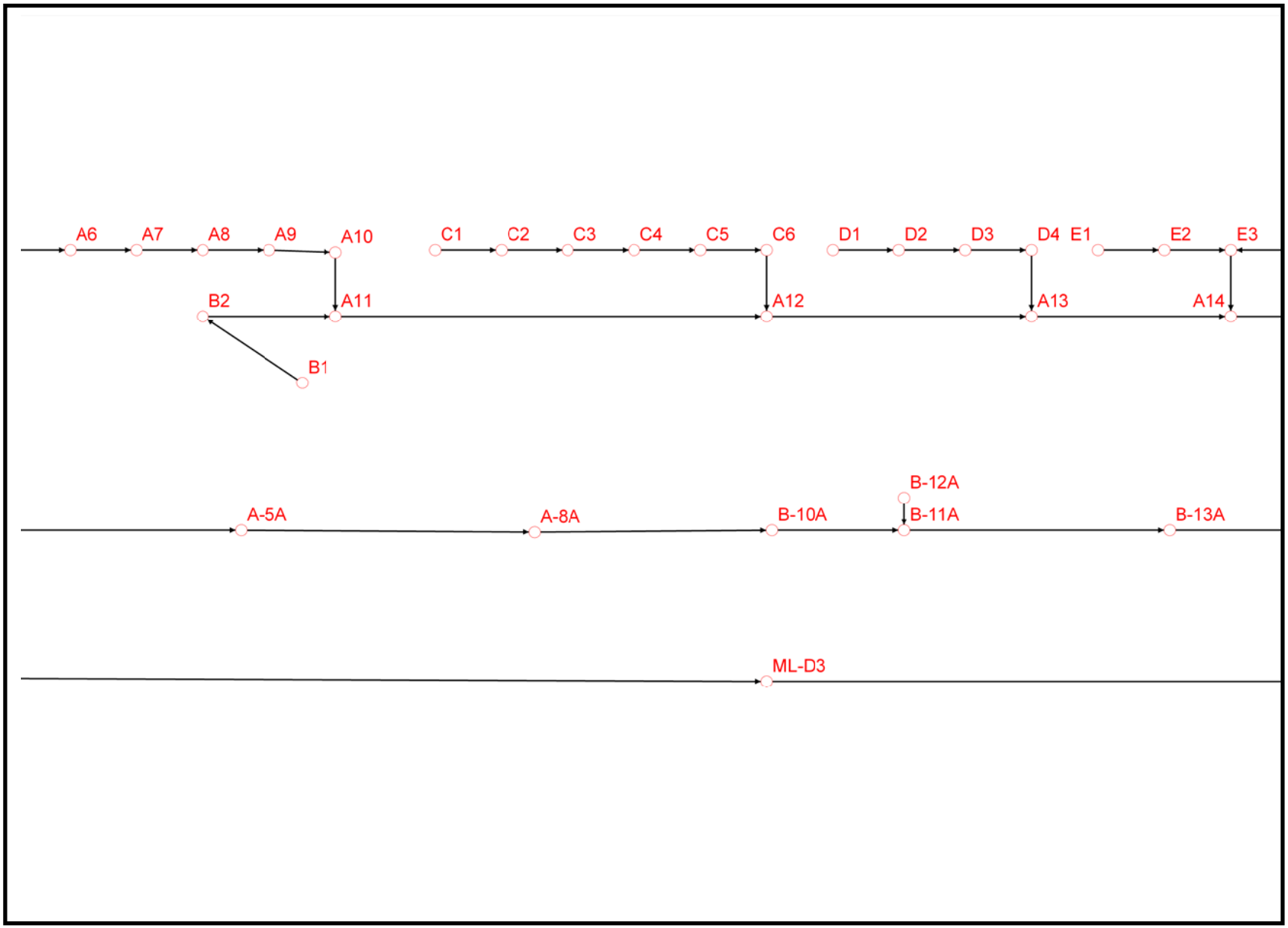
OUTFALLS 5 & 6
EXISTING SWMM LAYOUT



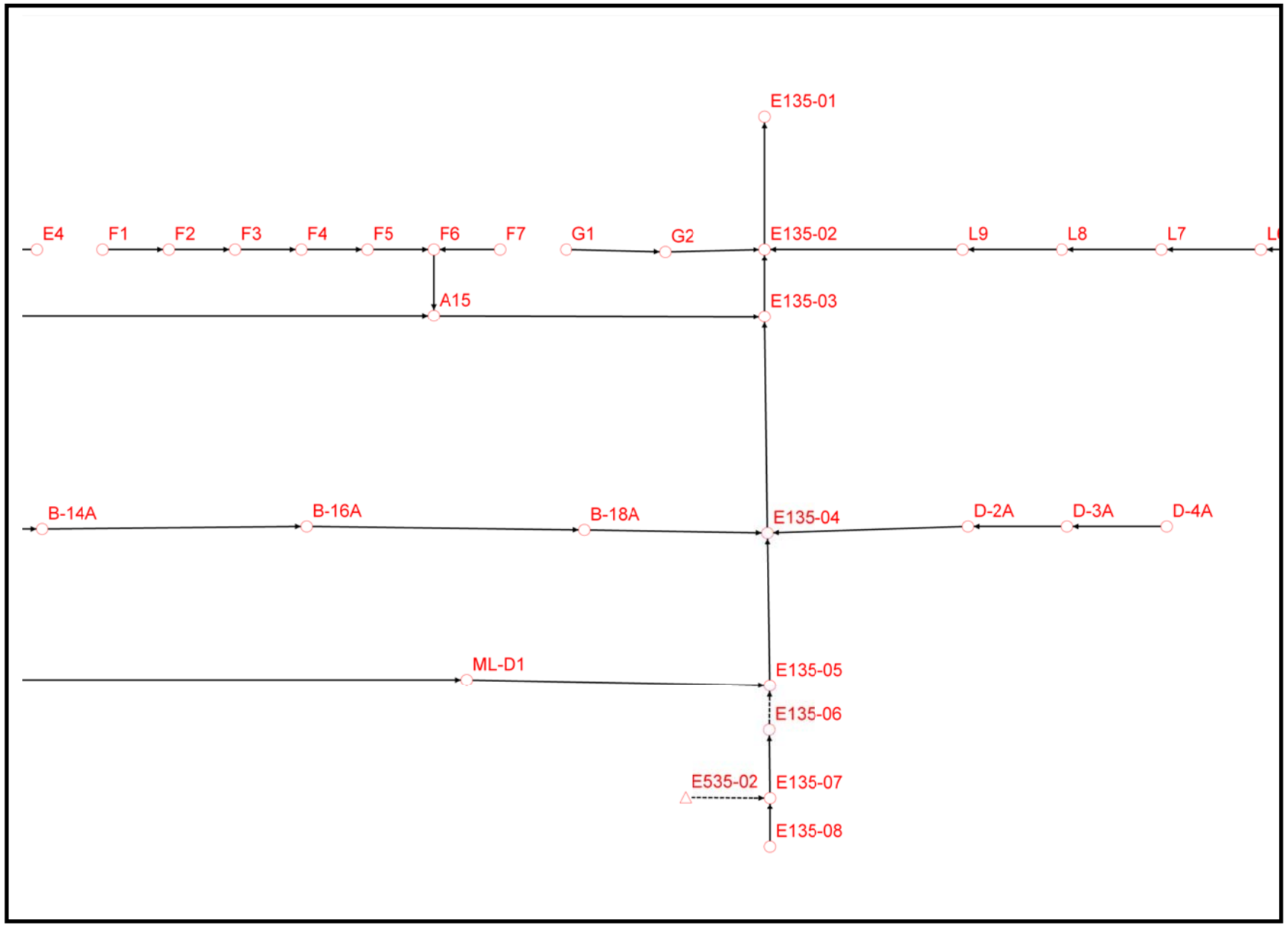
OUTFALLS 5 & 6
EXISTING SWMM LAYOUT



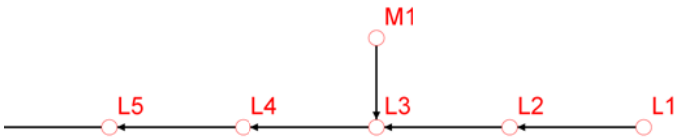
OUTFALLS 5 & 6
EXISTING SWMM LAYOUT



OUTFALLS 5 & 6
EXISTING SWMM LAYOUT



OUTFALLS 5 & 6
EXISTING SWMM LAYOUT



Current Directory: C:\XPS\xpstorm
Engine Name: C:\XPS\xpstorm\SWMMEN~1.EXE

Input File : \SWMM\Segment D\SWMM\Existing\100YR_Ext_US290_SegD_StplwytoSH6.XP

```
         *================================================*
         |                    xpswmm                      |
         |     Storm and Wastewater Management Model      |
         |           Interface Version: 10.52             |
         |              Engine Version: 10.54             |
         |================================================|
         |                                                |
         |                Developed by                    |
         |                                                |
         |                XP Software                     |
         |                                                |
         |================================================|
         |      XP Software       November, 2006          |
         |       Data File Version --->    11.9           |
         |       Serial Number: 66-1052-0602              |
         |                H & H Resources                 |
         *================================================*
```

Engine Name: C:\XPS\xpstorm\SWMMEN~1.EXE

```
*=================================================*
|       Input and Output file names by Layer      |
*=================================================*
```

Input File to Layer #   1 JOT.US
Output File to Layer #   1 JOT.US

```
*============================================================*
|   Special command line arguments in XP-SWMM2000. This     |
|   now includes program defaults. $Keywords are the program|
|   defaults.  Other Keywords are from the SWMMCOM.CFG file.|
|   or the command line or any cfg file on the command line.|
|   Examples include these in the file xpswm.bat under the   |
|   section :solve or in the windows version XPSWMM32 in the|
|   file solve.bat                                           |
|                                                            |
|   Note: the cfg file should be in the subdirectory swmxp   |
|         or defined by the set variable in the xpswm.bat    |
|         file.  Some examples of the command lines possible|
|         are shown below:                                   |
|                                                            |
|   swmmd swmmcom.cfg                                        |
|   swmmd my.cfg                                             |
|   swmmd nokeys nconv5 perv extranwq                        |
*============================================================*
```

$powerstation	0.0000	1	2
$perv	0.0000	0	4
$oldegg	0.0000	0	7
$as	0.0000	0	11
$noflat	0.0000	0	21
$oldomega	0.0000	0	24
$oldvol	0.0000	1	28
$implicit	0.0000	1	29
$oldhot	0.0000	1	31
$oldscs	0.0000	0	33
$flood	0.0000	1	40
$nokeys	0.0000	0	42
$pzero	0.0000	0	55
$oldvol2	0.0000	2	59
$storage2	0.0000	3	62
$oldhot1	0.0000	1	63
$pumpwt	0.0000	1	70
$ecloss	0.0000	1	77
$exout	0.0000	0	97
SPATIAL=0.55	0.5500	5	124
$djref = -1.0	-0.1000	3	143
$weirlen = 50	50.0000	1	153
$oldbnd	0.0000	1	154
$nogrelev	0.0000	1	161
$ncmid	0.0000	0	164
$new_nl_97	0.0000	2	290
$best97	0.0000	1	294
$newbound	0.0000	1	295
$q_tol = 0.01	0.0001	1	316
$new_storage	0.0000	1	322
$old_iteration	0.0000	1	333
$minlen=30.0	30.0000	1	346
$review_elevation	0.0000	1	383
$use_half_volume	0.0000	1	385
$min_ts = 0.5	0.5000	1	407
$design_restart = on	0.0000	1	412
$zero_value=1.e-05	0.0000	1	415
$relax_depth = on	0.0000	1	427
$saveallpts = on	0.0000	1	434

```
*============================================================*
| Parameter Values on the Tapes Common Block.These are the   |
| values read from the data file and dynamically allocated   |
| by the model for this simulation.                          |
*============================================================*
```

Number of Subcatchments in the Runoff Block (NW)....	0
Number of Channel/Pipes in the Runoff Block (NG)....	0
Runoff Water quality constituents (NRQ).....	0
Runoff Land Uses per Subcatchment (NLU).....	0
Number of Elements in the Transport Block (NET).....	0
Number of Storage Junctions in Transport (NTSE).....	0
Number of Input Hydrographs in Transport (NTH).....	0
Number of Elements in the Extran Block (NEE).....	121
Number of Groundwater Subcatchments in Runoff (NGW).	0
Number of Interface locations for all Blocks (NIE)..	121
Number of Pumps in Extran (NEP).....	0
Number of Orifices in Extran (NEO).....	0
Number of Tide Gates/Free Outfalls in Extran (NTG)..	2
Number of Extran Weirs (NEW).....	1
Number of scs hydrograph points.....	1
Number of Extran printout locations (NPO).....	0
Number of Tide elements in Extran (NTE).....	2
Number of Natural channels (NNC).....	7
Number of Storage junctions in Extran (NVSE).....	2
Number of Time history data points in Extran(NTVAL).	5
Number of Variable storage elements in Extran (NVST)	10
Number of Input Hydrographs in Extran (NEH).....	93
Number of Particle sizes in Transport Block (NPS)...	0
Number of User defined conduits (NHW).....	121
Number of Connecting conduits in Extran (NECC).....	20
Number of Upstream elements in Transport (NTCC).....	10
Number of Storage/treatment plants (NSTU).....	1

```
 Number of Values for R1 lines in Transport (NR1)....     0
 Number of Nodes to be allowed for (NNOD)............   121
 Number of Plugs in a Storage Treatment Unit.........     1


####################################################
#    Entry made to the HYDRAULIC Layer(Block) of SWMM #
#    Last Updated June,2005 by XP Software           #

    US290 / HEMPSTEAD HIGHWAY CORRIDOR
    Drainage Impact Study - Steepleway to SH-6 - Existing Conditions - 100-


*==========================================================*
|        HYDRAULICS TABLES IN THE OUTPUT FILE              |
|  These are the more important tables in the output file.  |
|  You can use your editor to find the table numbers,       |
|  for example: search for Table E20 to check continuity.   |
|  This output file can be imported into a Word Processor   |
|  and printed on US letter or A4 paper using portrait      |
|  mode, courier font, a size of 8 pt. and margins of 0.75  |
|                                                           |
| Table E1   - Basic Conduit Data                           |
| Table E2   - Conduit Factor Data                          |
| Table E3a  - Junction Data                                |
| Table E3b  - Junction Data                                |
| Table E4   - Conduit Connectivity Data                    |
| Table E4a  - Dry Weather Flow Data                        |
| Table E4b  - Real Time Control Data                       |
| Table E5   - Junction Time Step Limitation Summary        |
| Table E5a  - Conduit Explicit Condition Summary           |
| Table E6   - Final Model Condition                        |
| Table E7   - Iteration Summary                            |
| Table E8   - Junction Time Step Limitation Summary        |
| Table E9   - Junction  Summary  Statistics                |
| Table E10  - Conduit   Summary  Statistics                |
| Table E11  - Area assumptions used in the analysis        |
| Table E12  - Mean conduit information                     |
| Table E13  - Channel losses(H) and culvert info           |
| Table E13a - Culvert Analysis Classification              |
| Table E14  - Natural Channel Overbank Flow Information    |
| Table E14a - Natural Channel Encroachment Information     |
| Table E14b - Floodplain Mapping                           |
| Table E15  - Spreadsheet Info List                        |
| Table E15a - Spreadsheet Reach List                       |
| Table E16  - New Conduit Output Section                   |
| Table E17  - Pump Operation                               |
| Table E18  - Junction Continuity Error                    |
| Table E19  - Junction Inflow & Outflow Listing            |
| Table E20  - Junction Flooding and Volume List            |
| Table E21  - Continuity balance at simulation end         |
| Table E22  - Model Judgement Section                      |
*==========================================================*

Time Control from Hydraulics Job Control
Year.........    1995 Month.......       1
Day..........       1 Hour........       0
Minute.......       0 Second......       0


Control information for simulation
----------------------------------

Integration cycles..................    172800
Length of integration step is......      1.00 seconds
Simulation length...................     48.00 hours
Do not create equiv. pipes(NEQUAL).         0
Use U.S. customary units for I/O...         0
Printing starts in cycle...........         1
Intermediate printout intervals of.       500 cycles
Intermediate printout intervals of.      8.33 minutes
Summary printout intervals of......       500 cycles
Summary printout time interval of..      8.33 minutes
Hot start file parameter (REDO)....         0
Initial time.......................      0.00 hours

Iteration variables: Flow Tolerance.   0.00100
                     Head Tolerance.   0.00100
    Minimum depth (m or ft).........   0.00001
    Underrelaxation parameter.......   0.85000
    Time weighting parameter........   0.85000
    Conduit roughness factor........   1.00000
    Flow adjustment factor..........   1.00000
    Initial Condition Smoothing.....         0
    Courant Time Step Factor........   1.00000
    Default Expansion/Contraction K.   0.00000
    Default Entrance/Exit K.........   0.00000
    Routing Method..................   Dynamic Wave
Default surface area of junctions...     12.57 square feet.
Minimum Junction/Conduit Depth......   0.00001 feet.
Ponding Area Coefficient............   5000.00
Ponding Area Exponent...............    1.0000
Minimum Orifice Length..............    500.00 feet.
NJSW input hydrograph junctions.....    93
     or user defined hydrographs....

        Natural Cross-Section information for Channel E135.4
        ====================================================
         Cross-Section ID (from X1 card) :     1.0 Channel sequence number :     1

  Left Overbank Length   :     94.0 ft               Maximum Elevation        :   116.46 ft.
  Main Channel Length    :     94.0 ft               Maximum Depth            :    12.19 ft.
  Right Overbank Length  :     94.0 ft               Maximum Section Area     : 4027.001 ft^2
                                                     Maximum hydraulic radius :     2.09 ft.
  Manning N :      0.040  to Station        4934.6    Max topwidth             :  1924.50 ft.
    "    "  :      0.040  in main Channel             Maximum Wetted Perimeter : 1.93E+03 ft
    "    "  :      0.040  Beyond station    5045.4    Max left bank area       :  2989.31 ft^2
                                                     Max right bank area      :   275.91 ft^2
  Allowable Encroachment Depth :    0.00 ft           Max center channel area  : 761.7760 ft^2

        Natural Cross-Section information for Channel E135.3
        ====================================================
         Cross-Section ID (from X1 card) :     2.0 Channel sequence number :     2

  Left Overbank Length   :    235.0 ft               Maximum Elevation        :   115.10 ft.
  Main Channel Length    :    235.0 ft               Maximum Depth            :    10.83 ft.
  Right Overbank Length  :    235.0 ft               Maximum Section Area     : 617.3736 ft^2
                                                     Maximum hydraulic radius :     5.94 ft.
  Manning N :      0.040  to Station        4934.6    Max topwidth             :   101.12 ft.
    "    "  :      0.040  in main Channel             Maximum Wetted Perimeter : 1.04E+02 ft
    "    "  :      0.040  Beyond station    5045.4    Max left bank area       :     0.00 ft^2
                                                     Max right bank area      :     0.00 ft^2
  Allowable Encroachment Depth :    0.00 ft           Max center channel area  : 617.3736 ft^2

        Natural Cross-Section information for Channel E135.2
        ====================================================
         Cross-Section ID (from X1 card) :     3.0 Channel sequence number :     3
```

```
Left Overbank Length   :     61.0 ft               Maximum Elevation        :   116.46 ft.
Main Channel Length    :     61.0 ft               Maximum Depth            :    12.19 ft.
Right Overbank Length  :     61.0 ft               Maximum Section Area     : 4027.001 ft^2
                                                   Maximum hydraulic radius :     2.09 ft.
Manning N :      0.040  to Station        4934.6    Max topwidth             :  1924.50 ft.
  "    "  :      0.040  in main Channel             Maximum Wetted Perimeter : 1.93E+03 ft
  "    "  :      0.040  Beyond station    5045.4    Max left bank area       :  2989.31 ft^2
                                                   Max right bank area      :   275.91 ft^2
Allowable Encroachment Depth :    0.00 ft           Max center channel area  : 761.7760 ft^2

      Natural Cross-Section information for Channel E135.1
      ====================================================
       Cross-Section ID (from X1 card) :     4.0 Channel sequence number :     4

Left Overbank Length   :    132.0 ft               Maximum Elevation        :   116.69 ft.
Main Channel Length    :     87.6 ft               Maximum Depth            :    12.55 ft.
Right Overbank Length  :     57.1 ft               Maximum Section Area     : 3570.681 ft^2
                                                   Maximum hydraulic radius :     1.88 ft.
Manning N :      0.080  to Station        4934.6    Max topwidth             :  1895.50 ft.
  "    "  :      0.040  in main Channel             Maximum Wetted Perimeter : 1.90E+03 ft
  "    "  :      0.080  Beyond station    5045.4    Max left bank area       :  2212.49 ft^2
                                                   Max right bank area      :   555.97 ft^2
Allowable Encroachment Depth :    0.00 ft           Max center channel area  : 802.2197 ft^2

      Natural Cross-Section information for Channel E135.7
      ====================================================
       Cross-Section ID (from X1 card) :     5.0 Channel sequence number :     5

Left Overbank Length   :    394.0 ft               Maximum Elevation        :   117.00 ft.
Main Channel Length    :    463.0 ft               Maximum Depth            :    10.12 ft.
Right Overbank Length  :    527.0 ft               Maximum Section Area     : 681.6088 ft^2
                                                   Maximum hydraulic radius :     4.47 ft.
Manning N :      0.040  to Station        4959.0    Max topwidth             :   149.18 ft.
  "    "  :      0.040  in main Channel             Maximum Wetted Perimeter : 1.52E+02 ft
  "    "  :      0.040  Beyond station    5038.1    Max left bank area       :    83.49 ft^2
                                                   Max right bank area      :    64.00 ft^2
Allowable Encroachment Depth :    0.00 ft           Max center channel area  : 534.1153 ft^2

      Natural Cross-Section information for Channel E135.6
      ====================================================
       Cross-Section ID (from X1 card) :     6.0 Channel sequence number :     6

Left Overbank Length   :     74.0 ft               Maximum Elevation        :   117.00 ft.
Main Channel Length    :     74.0 ft               Maximum Depth            :    11.00 ft.
Right Overbank Length  :     74.0 ft               Maximum Section Area     : 929.8151 ft^2
                                                   Maximum hydraulic radius :     3.45 ft.
Manning N :      0.040  to Station        4963.2    Max topwidth             :   265.70 ft.
  "    "  :      0.040  in main Channel             Maximum Wetted Perimeter : 2.69E+02 ft
  "    "  :      0.040  Beyond station    5032.1    Max left bank area       :    34.55 ft^2
                                                   Max right bank area      :   405.10 ft^2
Allowable Encroachment Depth :    0.00 ft           Max center channel area  : 490.1697 ft^2

      Natural Cross-Section information for Channel .5-WEIR
      ====================================================
       Cross-Section ID (from X1 card) :     7.0 Channel sequence number :     7

Left Overbank Length   :     63.0 ft               Maximum Elevation        :   117.00 ft.
Main Channel Length    :     63.0 ft               Maximum Depth            :     3.06 ft.
Right Overbank Length  :     63.0 ft               Maximum Section Area     : 160.2218 ft^2
                                                   Maximum hydraulic radius :     1.80 ft.
Manning N :      0.040  to Station        4981.8    Max topwidth             :    88.44 ft.
  "    "  :      0.035  in main Channel             Maximum Wetted Perimeter : 8.93E+01 ft
  "    "  :      0.040  Beyond station    5022.5    Max left bank area       :    37.40 ft^2
                                                   Max right bank area      :    27.30 ft^2
Allowable Encroachment Depth :    0.00 ft           Max center channel area  :  95.5216 ft^2
```

===
| Table E1 - Conduit Data |
===

Inp Num	Conduit Name	Length (ft)	Conduit Class	Area (ft^2)	Manning Coef.	Max Width (ft)	Depth (ft)	Trapezoid Side Slopes
1	L-B1	221.0000	Circular	3.1416	0.0130	2.0000	2.0000	
2	L-B2	306.0000	Circular	7.0686	0.0130	3.0000	3.0000	
3	L-C1	78.0000	Circular	1.7671	0.0130	1.5000	1.5000	
4	L-C2	189.0000	Circular	3.1416	0.0130	2.0000	2.0000	
5	L-C3	5.0000	Circular	3.1416	0.0130	2.0000	2.0000	
6	L-C4	187.0000	Circular	3.1416	0.0130	2.0000	2.0000	
7	L-C5	93.0000	Circular	4.9087	0.0130	2.5000	2.5000	
8	L-C6	49.0000	Circular	4.9087	0.0130	2.5000	2.5000	
9	L-D1	203.0000	Circular	1.7671	0.0130	1.5000	1.5000	
10	L-D2	98.0000	Circular	3.1416	0.0130	2.0000	2.0000	
11	L-D3	88.0000	Circular	3.1416	0.0130	2.0000	2.0000	
12	L-D4	49.0000	Circular	3.1416	0.0130	2.0000	2.0000	
13	L-E1	180.0000	Circular	1.7671	0.0130	1.5000	1.5000	
14	L-E2	185.0000	Circular	3.1416	0.0130	2.0000	2.0000	
15	L-E4	90.0000	Circular	1.7671	0.0130	1.5000	1.5000	
16	L-E3	48.0000	Circular	3.1416	0.0130	2.0000	2.0000	
17	L-F1	105.0000	Circular	1.7671	0.0130	1.5000	1.5000	
18	L-F2	98.0000	Circular	1.7671	0.0130	1.5000	1.5000	
19	L-F3	98.0000	Circular	3.1416	0.0130	2.0000	2.0000	
20	L-F4	205.0000	Circular	3.1416	0.0130	2.0000	2.0000	
21	L-F5	98.0000	Circular	4.9087	0.0130	2.5000	2.5000	
22	L-F7	160.0000	Circular	1.7671	0.0130	1.5000	1.5000	
23	L-F6	48.0000	Circular	4.9087	0.0130	2.5000	2.5000	
24	L-A1	93.0000	Circular	1.7671	0.0130	1.5000	1.5000	
25	L-A2	90.0000	Circular	1.7671	0.0130	1.5000	1.5000	
26	L-A3	90.0000	Circular	3.1416	0.0130	2.0000	2.0000	
27	L-A4	90.0000	Circular	3.1416	0.0130	2.0000	2.0000	
28	L-A5	70.0000	Circular	3.1416	0.0130	2.0000	2.0000	
29	L-A6	110.0000	Circular	4.9087	0.0130	2.5000	2.5000	
30	L-A7	98.0000	Circular	4.9087	0.0130	2.5000	2.5000	
31	L-A8	193.0000	Circular	4.9087	0.0130	2.5000	2.5000	
32	L-A9	83.0000	Circular	7.0686	0.0130	3.0000	3.0000	
33	L-A10	48.0000	Circular	7.0686	0.0130	3.0000	3.0000	
34	L-A11	800.0000	Rectangle	16.0000	0.0130	4.0000	4.0000	
35	L-A12	705.0000	Rectangle	25.0000	0.0130	5.0000	5.0000	
36	L-A13	600.0000	Rectangle	25.0000	0.0130	5.0000	5.0000	
37	L-A14	1015.0000	Rectangle	36.0000	0.0130	6.0000	6.0000	
38	L-A15	669.0000	Rectangle	36.0000	0.0130	6.0000	6.0000	
39	L-G1	70.0000	Circular	1.7671	0.0130	1.5000	1.5000	
40	L-G2	155.0000	Circular	1.7671	0.0130	1.5000	1.5000	
41	L-M1	32.0000	Circular	3.1416	0.0130	2.0000	2.0000	
42	L-L1	95.0000	Circular	1.7671	0.0130	1.5000	1.5000	
43	L-L2	93.0000	Circular	1.7671	0.0130	1.5000	1.5000	
44	L-L3	95.0000	Circular	4.9087	0.0130	2.5000	2.5000	
45	L-L4	203.0000	Circular	4.9087	0.0130	2.5000	2.5000	
46	L-L5	100.0000	Circular	7.0686	0.0130	3.0000	3.0000	
47	L-L6	90.0000	Circular	7.0686	0.0130	3.0000	3.0000	
48	L-L7	103.0000	Circular	7.0686	0.0130	3.0000	3.0000	
49	L-L8	65.0000	Circular	7.0686	0.0130	3.0000	3.0000	
50	L-L9	193.0000	Circular	7.0686	0.0130	3.0000	3.0000	
51	L-A-5	199.0000	Circular	4.9087	0.0130	2.5000	2.5000	
52	L-A-9	91.0000	Circular	12.5664	0.0130	4.0000	4.0000	
53	L-A-15	398.0000	Circular	1.7671	0.0130	1.5000	1.5000	
54	L-A-14	154.0000	Circular	7.0686	0.0130	3.0000	3.0000	

55	L-A-12	42.0000	Circular	1.7671	0.0130	1.5000	1.5000		
56	L-A-13	203.0000	Circular	7.0686	0.0130	3.0000	3.0000		
57	L-MH-A-10	395.0000	Circular	12.5664	0.0130	4.0000	4.0000		
58	L-MH-A-9	577.0000	Circular	12.5664	0.0130	4.0000	4.0000		
59	L-A-10	51.0000	Circular	12.5664	0.0130	4.0000	4.0000		
60	L-A-3	218.0000	Circular	3.1416	0.0130	2.0000	2.0000		
61	L-A-2	334.0000	Circular	4.9087	0.0130	2.5000	2.5000		
62	L-A-6	797.0000	Circular	9.6211	0.0130	3.5000	3.5000		
63	L-MH-A-2	1082.0000	Circular	9.6211	0.0130	3.5000	3.5000		
64	L-A-8	132.0000	Circular	9.6211	0.0130	3.5000	3.5000		
65	L-A-4	130.0000	Rectangle	45.0000	0.0130	9.0000	5.0000		
66	L-MH-A-7	80.0000	Rectangle	45.0000	0.0130	9.0000	5.0000		
67	L-MH-A-5	88.0000	Rectangle	45.0000	0.0130	9.0000	5.0000		
68	L-MH-A-4	85.0000	Rectangle	45.0000	0.0130	9.0000	5.0000		
69	L-MH-A-3	25.0000	Rectangle	45.0000	0.0130	9.0000	5.0000		
70	L-A-7	77.0000	Rectangle	45.0000	0.0130	9.0000	5.0000		
71	L-A-2A	100.0000	Trapezoid	33.0000	0.0400	2.0000	3.0000	3.0000	3.0000
72	L-A-5A	452.0000	Trapezoid	33.0000	0.0400	2.0000	3.0000	3.0000	3.0000
73	L-A-8A	597.0000	Trapezoid	33.0000	0.0400	2.0000	3.0000	3.0000	3.0000
74	L-B-10A	805.0000	Trapezoid	33.0000	0.0400	2.0000	3.0000	3.0000	3.0000
75	L-B-11A	698.0000	Trapezoid	33.0000	0.0400	2.0000	3.0000	3.0000	3.0000
76	L-B-13A	301.0000	Trapezoid	33.0000	0.0400	2.0000	3.0000	3.0000	3.0000
77	L-B-14A	301.0000	Trapezoid	33.0000	0.0400	2.0000	3.0000	3.0000	3.0000
78	L-B-16A	520.0000	Trapezoid	33.0000	0.0400	2.0000	3.0000	3.0000	3.0000
79	L-B-18A	653.0000	Trapezoid	33.0000	0.0400	2.0000	3.0000	3.0000	3.0000
80	L-D-3A	350.0000	Trapezoid	33.0000	0.0400	2.0000	3.0000	3.0000	3.0000
81	L-D-2A	200.0000	Trapezoid	33.0000	0.0400	2.0000	3.0000	3.0000	3.0000
82	L-E13504.1	160.0000	Trapezoid	33.0000	0.0400	2.0000	3.0000	3.0000	3.0000
83	L-E13504	440.0000	Trapezoid	33.0000	0.0400	2.0000	3.0000	3.0000	3.0000
84	E135.4	94.0000	Natural	4027.0010	0.0400	1924.5000	12.1900		
85	E135.3	235.0000	Natural	617.3736	0.0400	101.1189	10.8300		
86	E135.2	61.0000	Natural	4027.0010	0.0400	1924.5000	12.1900		
87	E135.1	87.6000	Natural	3570.6805	0.0400	1895.5000	12.5500		
88	L-E112-01	1536.0000	Rectangle	50.0000	0.0130	10.0000	5.0000		
89	L-A-1A	1203.0000	Trapezoid	33.0000	0.0400	2.0000	3.0000	3.0000	3.0000
90	L-AD-3	404.0000	Trapezoid	23.7500	0.0400	2.0000	2.5000	3.0000	3.0000
91	L-AD-4	347.0000	Trapezoid	33.0000	0.0400	2.0000	3.0000	3.0000	3.0000
92	L-AD-5	786.0000	Trapezoid	33.0000	0.0400	2.0000	3.0000	3.0000	3.0000
93	L-AD-5A	776.0000	Trapezoid	33.0000	0.0400	2.0000	3.0000	3.0000	3.0000
94	E135.7	463.0000	Natural	681.6088	0.0400	149.1800	10.1200		
95	L-E13505	50.0000	Trapezoid	56.0000	0.0400	2.0000	4.0000	3.0000	3.0000
96	L-AD-6	713.0000	Trapezoid	16.0000	0.0350	2.0000	2.0000	3.0000	3.0000
97	L-AD-2	100.0000	Trapezoid	23.7500	0.0350	2.0000	2.5000	3.0000	3.0000
98	L-A-1AB	95.0000	Rectangle	6.0000	0.0130	3.0000	2.0000		
99	L-A-1BB	2801.0000	Trapezoid	56.0000	0.0350	2.0000	4.0000	3.0000	3.0000
100	L-A-1AE	3195.0000	Trapezoid	33.0000	0.0350	2.0000	3.0000	3.0000	3.0000
101	L-A-1AF	5306.0000	Trapezoid	16.0000	0.0350	2.0000	2.0000	3.0000	3.0000
102	L-ML-D7	5321.0900	Trapezoid	16.0000	0.0350	2.0000	2.0000	3.0000	3.0000
103	L-ML-D6	3453.0000	Trapezoid	56.0000	0.0350	2.0000	4.0000	3.0000	3.0000
104	L-ML-D5	322.0000	Rectangle	32.0000	0.0130	8.0000	4.0000		
105	L-ML-D4	2955.0000	Trapezoid	56.0000	0.0350	2.0000	4.0000	3.0000	3.0000
106	L-ML-D3	3771.0000	Trapezoid	16.0000	0.0350	2.0000	2.0000	3.0000	3.0000
107	L-ML-D1	2833.0000	Trapezoid	16.0000	0.0350	2.0000	2.0000	3.0000	3.0000
108	L-A-2AD	90.2500	Circular	7.0686	0.0130	3.0000	3.0000		
109	L-A-3AD	217.0000	Trapezoid	56.0000	0.0350	2.0000	4.0000	3.0000	3.0000
110	L-A-1AD	262.0000	Rectangle	32.0000	0.0130	8.0000	4.0000		
111	L-A-1AC	173.0000	Trapezoid	56.0000	0.0350	2.0000	4.0000	3.0000	3.0000
112	L-A4-A9	135.0000	Trapezoid	43.7500	0.0400	2.0000	3.5000	3.0000	3.0000
113	L-E112-OUT	150.0000	Trapezoid	333.0000	0.0400	10.0000	9.0000	3.0000	3.0000
114	E135.6	74.0000	Natural	929.8151	0.0400	265.7000	11.0000		
115	Link980	72.0000	Circular	3.1416	0.0130	2.0000	2.0000		
116	.5-RCP	63.0000	Circular	38.4845	0.0240	7.0000	7.0000		
117	.5-WEIR	63.0000	Natural	160.2218	0.0350	88.4400	3.0600		
118	RCP-02	90.0000	Circular	3.1416	0.0240	2.0000	2.0000		

Total length of all conduits .... 57960.9400 feet

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| Table E2 - Conduit Factor Data |
==========

Conduit Name	Number of Barrels	Entrance Loss Coef	Exit Loss Coef	Exp/Contc Coefficnt	Time Weighting Parameter	Low Flow Roughness Factor	Depth at Which n Changes	Flow Routing
L-A-9	1.0000	0.5000	0.0000	0.0000	0.8500	1.0000	0.0000	Standard - Dynamic Wave
L-A-12	2.0000	0.0000	0.0000	0.0000	0.8500	1.0000	0.0000	Standard - Dynamic Wave
L-A-4	1.0000	0.5000	0.0000	0.0000	0.8500	1.0000	0.0000	Standard - Dynamic Wave
L-E112-01	1.0000	0.0000	0.5000	0.0000	0.8500	1.0000	0.0000	Standard - Dynamic Wave
L-A-1AB	1.0000	0.5000	0.5000	0.0000	0.8500	1.0000	0.0000	Standard - Dynamic Wave
L-ML-D5	1.0000	0.5000	0.5000	0.0000	0.8500	1.0000	0.0000	Standard - Dynamic Wave
L-A-2AD	3.0000	0.5000	0.5000	0.0000	0.8500	1.0000	0.0000	Standard - Dynamic Wave
L-A-1AD	1.0000	0.5000	0.5000	0.0000	0.8500	1.0000	0.0000	Standard - Dynamic Wave
.5-RCP	2.0000	0.5000	0.5000	0.0000	0.8500	1.0000	0.0000	Standard - Dynamic Wave
RCP-02	1.0000	0.5000	0.5000	0.0000	0.8500	1.0000	0.0000	Standard - Dynamic Wave

==========
| If there are messages about (sqrt(g*d)*dt/dx), or |
| the sqrt(wave celerity)*time step/conduit length |
| in the output file all it means is that the |
| program will lower the internal time step to |
| satisfy this condition (explicit condition). |
| You control the actual internal time step by |
| using the minimum courant time step factor in the |
| HYDRAULICS job control. The message put in words |
| states that the smallest conduit with the fastest |
| velocity will control the time step selection. |
| You have further control by using the modify |
| conduit option in the HYDRAULICS Job Control. |
==========

Conduit Name	Courant Ratio
L-B1	0.04
L-B2	0.03
L-C1	0.09
L-C2	0.04
L-C3	0.27
L-C4	0.04
L-C5	0.10
L-C6	0.18
L-D1	0.03
L-D2	0.08
L-D3	0.09
L-D4	0.16
L-E1	0.04
L-E2	0.04
L-E4	0.08
L-E3	0.17
L-F1	0.07
L-F2	0.07
L-F3	0.08
L-F4	0.04
L-F5	0.09
L-F7	0.04
L-F6	0.19
L-A1	0.07

L-A2	0.08
L-A3	0.09
L-A4	0.09
L-A5	0.11
L-A6	0.08
L-A7	0.09
L-A8	0.05
L-A9	0.12
L-A10	0.20
L-A11	0.01
L-A12	0.02
L-A13	0.02
L-A14	0.01
L-A15	0.02
L-G1	0.10
L-G2	0.04
L-M1	0.25
L-L1	0.07
L-L2	0.07
L-L3	0.09
L-L4	0.04
L-L5	0.10
L-L6	0.11
L-L7	0.10
L-L8	0.15
L-L9	0.05
L-A-5	0.05
L-A-9	0.12
L-A-15	0.02
L-A-14	0.06
L-A-12	0.17
L-A-13	0.05
L-MH-A-10	0.03
L-MH-A-9	0.02
L-A-10	0.22
L-A-3	0.04
L-A-2	0.03
L-A-6	0.01
L-MH-A-2	0.01
L-A-8	0.08
L-A-4	0.10
L-MH-A-7	0.16
L-MH-A-5	0.14
L-MH-A-4	0.15
L-MH-A-3	0.42
L-A-7	0.16
L-A-2A	0.07
L-A-5A	0.02
L-A-8A	0.01
L-B-10A	0.01
L-B-11A	0.01
L-B-13A	0.02
L-B-14A	0.02
L-B-16A	0.01
L-B-18A	0.01
L-D-3A	0.02
L-D-2A	0.04
L-E13504.1	0.05
L-E13504	0.02
E135.4	0.09
E135.3	0.06
E135.2	0.13
E135.1	0.09
L-E112-01	0.01
L-A-1A	0.01
L-AD-3	0.02
L-AD-4	0.02
L-AD-5	0.01
L-AD-5A	0.01
E135.7	0.03
L-E13505	0.17
L-AD-6	0.01
L-AD-2	0.07
L-A-1AB	0.08
L-A-1BB	0.00
L-A-1AE	0.00
L-A-1AF	0.00
L-ML-D7	0.00
L-ML-D6	0.00
L-ML-D5	0.04
L-ML-D4	0.00
L-ML-D3	0.00
L-ML-D1	0.00
L-A-2AD	0.11
L-A-3AD	0.04
L-A-1AD	0.04
L-A-1AC	0.05
L-A4-A9	0.06
L-E112-OUT	0.09
E135.6	0.14
Link980	0.11
.5-RCP	0.24
.5-WEIR	0.12
RCP-02	0.09

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| Conduit Volume |
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Full pipe or full open conduit volume
Input full depth volume..... 3.0514E+06 cubic feet

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| Table E3a - Junction Data |
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Inp Num	Junction Name	Ground Elevation	Crown Elevation	Invert Elevation	Qinst cfs	Initial Depth-ft	Interface Flow (%)
1	MH-A-2	124.5000	124.5000	116.1600	0.0000	0.0000	100.0000
2	MH-A-7	128.2300	128.2300	113.0200	0.0000	0.0000	100.0000
3	MH-A-5	126.1000	126.1000	112.8600	0.0000	0.0000	100.0000
4	A-10	124.0000	124.0000	112.5900	0.0000	0.0000	100.0000
5	MH-A-4	124.0000	124.0000	112.6800	0.0000	0.0000	100.0000
6	A-14	123.0000	123.0000	114.2600	0.0000	0.0000	100.0000
7	A-13	121.0000	121.0000	114.3300	0.0000	0.0000	100.0000
8	A-15	121.5000	121.5000	116.8800	0.0000	0.0000	100.0000
9	A11	116.0200	116.0200	109.7600	0.0000	0.0000	100.0000
10	A10	117.6100	117.6100	111.4500	0.0000	0.0000	100.0000
11	A12	115.2200	115.2200	108.0200	0.0000	0.0000	100.0000
12	A14	114.6200	114.6200	105.4900	0.0000	0.0000	100.0000
13	A15	112.6000	112.6000	104.6300	0.0000	0.0000	100.0000
14	A-12	121.0000	121.0000	117.8200	0.0000	0.0000	100.0000
15	MH-A-3	123.1900	123.1900	112.5100	0.0000	0.0000	100.0000
16	A13	115.5200	115.5200	107.3300	0.0000	0.0000	100.0000
17	A-3	126.0000	126.0000	120.3700	0.0000	0.0000	100.0000
18	A-2	126.0000	126.0000	119.4300	0.0000	0.0000	100.0000

19	A-6	125.5000	125.5000	117.7600	0.0000	0.0000	100.0000
20	A-5	124.0000	124.0000	118.1600	0.0000	0.0000	100.0000
21	A-8	123.5000	123.5000	113.9800	0.0000	0.0000	100.0000
22	A-9	124.0000	124.0000	113.6900	0.0000	0.0000	100.0000
23	MH-A-10	122.0000	122.0000	114.0200	0.0000	0.0000	100.0000
24	A-1A	125.0000	125.0000	118.6600	0.0000	0.0000	100.0000
25	A-2A	125.0000	125.0000	118.3000	0.0000	0.0000	100.0000
26	A-5A	125.0000	125.0000	116.9000	0.0000	0.0000	100.0000
27	A-8A	125.0000	125.0000	116.7000	0.0000	0.0000	100.0000
28	B-10A	125.0000	125.0000	115.7000	0.0000	0.0000	100.0000
29	B-11A	125.0000	125.0000	115.6200	0.0000	0.0000	100.0000
30	B-13A	125.0000	125.0000	114.7000	0.0000	0.0000	100.0000
31	B-14A	125.0000	125.0000	114.3400	0.0000	0.0000	100.0000
32	B-16A	125.0000	125.0000	113.9300	0.0000	0.0000	100.0000
33	B-18A	125.0000	125.0000	113.1200	0.0000	0.0000	100.0000
34	E135-04	125.0000	125.0000	105.4200	0.0000	0.0000	100.0000
35	D-2A	125.0000	125.0000	113.0500	0.0000	0.0000	100.0000
36	D-3A	125.0000	125.0000	113.2200	0.0000	0.0000	100.0000
37	D-4A	125.0000	125.0000	113.7000	0.0000	0.0000	100.0000
38	C1	117.6100	117.6100	113.6200	0.0000	0.0000	100.0000
39	C2	117.8200	117.8200	112.8700	0.0000	0.0000	100.0000
40	C3	117.9100	117.9100	112.2800	0.0000	0.0000	100.0000
41	C4	116.4700	116.4700	112.2500	0.0000	0.0000	100.0000
42	C5	117.9900	117.9900	111.1700	0.0000	0.0000	100.0000
43	C6	117.7700	117.7700	110.8700	0.0000	0.0000	100.0000
44	D1	117.7000	117.7000	113.7200	0.0000	0.0000	100.0000
45	D2	117.6200	117.6200	112.5900	0.0000	0.0000	100.0000
46	D3	117.3100	117.3100	112.2700	0.0000	0.0000	100.0000
47	D4	118.2200	118.2200	111.9900	0.0000	0.0000	100.0000
48	E1	116.6400	116.6400	113.2200	0.0000	0.0000	100.0000
49	E2	116.3200	116.3200	111.9800	0.0000	0.0000	100.0000
50	E3	116.2100	116.2100	111.7200	0.0000	0.0000	100.0000
51	E4	116.4200	116.4200	112.4200	0.0000	0.0000	100.0000
52	F1	115.6600	115.6600	111.5200	0.0000	0.0000	100.0000
53	F2	115.1800	115.1800	111.0600	0.0000	0.0000	100.0000
54	F3	114.8300	114.8300	110.1400	0.0000	0.0000	100.0000
55	F4	115.2200	115.2200	109.7200	0.0000	0.0000	100.0000
56	F5	114.8000	114.8000	108.3600	0.0000	0.0000	100.0000
57	F6	114.2500	114.2500	107.9600	0.0000	0.0000	100.0000
58	F7	114.3300	114.3300	110.3200	0.0000	0.0000	100.0000
59	L9	115.0600	115.0600	107.6200	0.0000	0.0000	100.0000
60	L8	114.6000	114.6000	107.8300	0.0000	0.0000	100.0000
61	L7	114.8800	114.8800	108.1600	0.0000	0.0000	100.0000
62	L6	115.1800	115.1800	108.4600	0.0000	0.0000	100.0000
63	L5	115.5100	115.5100	108.7900	0.0000	0.0000	100.0000
64	L4	115.5300	115.5300	109.9200	0.0000	0.0000	100.0000
65	L3	115.3000	115.3000	110.2200	0.0000	0.0000	100.0000
66	M1	114.8000	114.8000	110.8000	0.0000	0.0000	100.0000
67	L2	115.5200	115.5200	111.5200	0.0000	0.0000	100.0000
68	L1	115.8200	115.8200	111.8200	0.0000	0.0000	100.0000
69	E135-03	116.7000	116.7000	104.4800	0.0000	0.0000	100.0000
70	G1	114.6100	114.6100	110.6400	0.0000	0.0000	100.0000
71	G2	115.0500	115.0500	110.4100	0.0000	0.0000	100.0000
72	E135-02	118.8300	118.8300	104.1400	0.0000	0.0000	100.0000
73	A-4	124.0000	124.0000	113.2800	0.0000	0.0000	100.0000
74	A-7	123.5000	123.5000	112.4600	0.0000	0.0000	100.0000
75	E112-01	123.0000	123.0000	112.3000	0.0000	0.0000	100.0000
76	MH-A-9	122.5000	122.5000	113.4400	0.0000	0.0000	100.0000
77	A1	119.9200	119.9200	115.9200	0.0000	0.0000	100.0000
78	A2	119.6200	119.6200	115.6200	0.0000	0.0000	100.0000
79	A3	119.3200	119.3200	114.8200	0.0000	0.0000	100.0000
80	A4	119.0200	119.0200	114.5200	0.0000	0.0000	100.0000
81	A5	119.1800	119.1800	114.2200	0.0000	0.0000	100.0000
82	A6	119.4800	119.4800	113.4800	0.0000	0.0000	100.0000
83	A7	118.5800	118.5800	113.1200	0.0000	0.0000	100.0000
84	A8	117.9000	117.9000	112.8200	0.0000	0.0000	100.0000
85	A9	117.8200	117.8200	111.7200	0.0000	0.0000	100.0000
86	B2	116.2200	116.2200	111.2400	0.0000	0.0000	100.0000
87	B1	118.7700	118.7700	114.4900	0.0000	0.0000	100.0000
88	E135-05	119.0000	119.0000	105.7900	0.0000	0.0000	100.0000
89	E135-01	118.8300	118.8300	103.7300	0.0000	0.0000	100.0000
90	E112-00	120.0000	120.0000	110.4568	0.0000	0.0000	100.0000
91	A-1AA	125.0000	125.0000	120.0800	0.0000	0.0000	100.0000
92	AD-3	126.4000	126.4000	123.7900	0.0000	0.0000	100.0000
93	AD-4	126.4000	126.4000	122.2100	0.0000	0.0000	100.0000
94	AD-5	125.4000	125.4000	121.8900	0.0000	0.0000	100.0000
95	AD-5A	127.1000	127.1000	121.4100	0.0000	0.0000	100.0000
96	AD-6	125.7200	125.7200	122.0000	0.0000	0.0000	100.0000
97	AD-2	125.7200	125.7200	121.2300	0.0000	0.0000	100.0000
98	A-1AB	128.5000	128.5000	121.9900	0.0000	0.0000	100.0000
99	E135-08	117.0000	117.0000	106.8000	0.0000	0.0000	100.0000
100	ML-D1	120.0000	120.0000	110.5000	0.0000	0.0000	100.0000
101	A-1BB	128.5000	128.5000	121.9000	0.0000	0.0000	100.0000
102	A-3AD	129.3050	129.3050	123.0000	0.0000	0.0000	100.0000
103	A-1AE	132.5000	132.5000	128.6900	0.0000	0.0000	100.0000
104	A-1AF	137.0000	136.0000	134.0000	0.0000	0.0000	100.0000
105	ML-D8	137.1400	134.9800	132.9800	0.0000	0.0000	100.0000
106	ML-D7	132.0000	132.0000	127.6590	0.0000	0.0000	100.0000
107	ML-D6	128.5000	128.5000	122.5900	0.0000	0.0000	100.0000
108	ML-D5	128.5000	128.5000	122.1700	0.0000	0.0000	100.0000
109	ML-D4	125.5100	125.5100	119.9710	0.0000	0.0000	100.0000
110	ML-D3	120.1100	120.1100	116.2000	0.0000	0.0000	100.0000
111	A-2AD	129.7000	129.7000	123.3000	0.0000	0.0000	100.0000
112	A-1AD	129.8000	129.8000	122.6000	0.0000	0.0000	100.0000
113	A-1AC	129.4000	129.4000	122.1600	0.0000	0.0000	100.0000
114	E112-OUT	120.0000	119.2768	110.2768	0.0000	0.0000	100.0000
115	E135-07	117.0500	117.0500	106.0206	0.0000	0.0000	100.0000
116	E135-06	117.0000	117.0000	105.8960	0.0000	0.0000	100.0000
117	E535-02	117.0000	109.0000	107.0000	0.0000	0.0000	100.0000
118	B-12A	118.5000	118.5000	116.5000	0.0000	0.0000	100.0000

Table E3b - Junction Data

Inp Num	Junction Name	X Coord.	Y Coord.	Type of Manhole	Type of Inlet	Maximum Capacity	Pavement Shape	Pavement Slope
1	MH-A-2	3.038902E+06	13.89200E+06	F	Normal		0	0.0000
2	MH-A-7	3.039298E+06	13.89153E+06	F	Normal		0	0.0000
3	MH-A-5	3.039500E+06	13.89170E+06	F	Normal		0	0.0000
4	A-10	3.039664E+06	13.89177E+06	F	Normal		0	0.0000
5	MH-A-4	3.039600E+06	13.89180E+06	F	Normal		0	0.0000
6	A-14	3.041000E+06	13.89120E+06	F	Normal		0	0.0000
7	A-13	3.041161E+06	13.89160E+06	F	Normal		0	0.0000
8	A-15	3.041300E+06	13.89120E+06	F	Normal		0	0.0000
9	A11	3.043300E+06	13.89160E+06	F	Normal		0	0.0000
10	A10	3.043300E+06	13.89179E+06	F	Normal		0	0.0000
11	A12	3.044600E+06	13.89160E+06	F	Normal		0	0.0000
12	A14	3.046000E+06	13.89160E+06	F	Normal		0	0.0000
13	A15	3.047400E+06	13.89160E+06	F	Normal		0	0.0000
14	A-12	3.041159E+06	13.89182E+06	F	Normal		0	0.0000
15	MH-A-3	3.039650E+06	13.89185E+06	F	Normal		0	0.0000
16	A13	3.045400E+06	13.89160E+06	F	Normal		0	0.0000
17	A-3	3.038400E+06	13.89200E+06	F	Normal		0	0.0000
18	A-2	3.038500E+06	13.89220E+06	F	Normal		0	0.0000
19	A-6	3.038700E+06	13.89210E+06	F	Normal		0	0.0000

20	A-5	3.038600E+06	13.89190E+06		F	Normal	0	0.0000
21	A-8	3.039100E+06	13.89190E+06		F	Normal	0	0.0000
22	A-9	3.039326E+06	13.89128E+06		F	Normal	0	0.0000
23	MH-A-10	3.041000E+06	13.89160E+06		F	Normal	0	0.0000
24	A-1A	3.041326E+06	13.89096E+06		F	Normal	0	0.0000
25	A-2A	3.042016E+06	13.89096E+06		F	Normal	0	0.0000
26	A-5A	3.043016E+06	13.89096E+06		F	Normal	0	0.0000
27	A-8A	3.043900E+06	13.89095E+06		F	Normal	0	0.0000
28	B-10A	3.044616E+06	13.89096E+06		F	Normal	0	0.0000
29	B-11A	3.045016E+06	13.89096E+06		F	Normal	0	0.0000
30	B-13A	3.045816E+06	13.89096E+06		F	Normal	0	0.0000
31	B-14A	3.046216E+06	13.89096E+06		F	Normal	0	0.0000
32	B-16A	3.047016E+06	13.89096E+06		F	Normal	0	0.0000
33	B-18A	3.047856E+06	13.89095E+06		F	Normal	0	0.0000
34	E135-04	3.048409E+06	13.89094E+06		F	Normal	0	0.0000
35	D-2A	3.049016E+06	13.89096E+06		F	Normal	0	0.0000
36	D-3A	3.049316E+06	13.89096E+06		F	Normal	0	0.0000
37	D-4A	3.049616E+06	13.89096E+06		F	Normal	0	0.0000
38	C1	3.043600E+06	13.89180E+06		F	Normal	0	0.0000
39	C2	3.043800E+06	13.89180E+06		F	Normal	0	0.0000
40	C3	3.044000E+06	13.89180E+06		F	Normal	0	0.0000
41	C4	3.044200E+06	13.89180E+06		F	Normal	0	0.0000
42	C5	3.044400E+06	13.89180E+06		F	Normal	0	0.0000
43	C6	3.044600E+06	13.89180E+06		F	Normal	0	0.0000
44	D1	3.044800E+06	13.89180E+06		F	Normal	0	0.0000
45	D2	3.045000E+06	13.89180E+06		F	Normal	0	0.0000
46	D3	3.045200E+06	13.89180E+06		F	Normal	0	0.0000
47	D4	3.045400E+06	13.89180E+06		F	Normal	0	0.0000
48	E1	3.045600E+06	13.89180E+06		F	Normal	0	0.0000
49	E2	3.045800E+06	13.89180E+06		F	Normal	0	0.0000
50	E3	3.046000E+06	13.89180E+06		F	Normal	0	0.0000
51	E4	3.046200E+06	13.89180E+06		F	Normal	0	0.0000
52	F1	3.046400E+06	13.89180E+06		F	Normal	0	0.0000
53	F2	3.046600E+06	13.89180E+06		F	Normal	0	0.0000
54	F3	3.046800E+06	13.89180E+06		F	Normal	0	0.0000
55	F4	3.047000E+06	13.89180E+06		F	Normal	0	0.0000
56	F5	3.047200E+06	13.89180E+06		F	Normal	0	0.0000
57	F6	3.047400E+06	13.89180E+06		F	Normal	0	0.0000
58	F7	3.047600E+06	13.89180E+06		F	Normal	0	0.0000
59	L9	3.049000E+06	13.89180E+06		F	Normal	0	0.0000
60	L8	3.049300E+06	13.89180E+06		F	Normal	0	0.0000
61	L7	3.049600E+06	13.89180E+06		F	Normal	0	0.0000
62	L6	3.049900E+06	13.89180E+06		F	Normal	0	0.0000
63	L5	3.050200E+06	13.89180E+06		F	Normal	0	0.0000
64	L4	3.050500E+06	13.89180E+06		F	Normal	0	0.0000
65	L3	3.050800E+06	13.89180E+06		F	Normal	0	0.0000
66	M1	3.050800E+06	13.89200E+06		F	Normal	0	0.0000
67	L2	3.051100E+06	13.89180E+06		F	Normal	0	0.0000
68	L1	3.051400E+06	13.89180E+06		F	Normal	0	0.0000
69	E135-03	3.048400E+06	13.89160E+06		F	Normal	0	0.0000
70	G1	3.047800E+06	13.89180E+06		F	Normal	0	0.0000
71	G2	3.048100E+06	13.89179E+06		F	Normal	0	0.0000
72	E135-02	3.048400E+06	13.89180E+06		F	Normal	0	0.0000
73	A-4	3.039164E+06	13.89143E+06		F	Normal	0	0.0000
74	A-7	3.039699E+06	13.89190E+06		F	Normal	0	0.0000
75	E112-01	3.039762E+06	13.89196E+06		F	Normal	0	0.0000
76	MH-A-9	3.040200E+06	13.89160E+06		F	Normal	0	0.0000
77	A1	3.041500E+06	13.89180E+06		F	Normal	0	0.0000
78	A2	3.041700E+06	13.89180E+06		F	Normal	0	0.0000
79	A3	3.041900E+06	13.89180E+06		F	Normal	0	0.0000
80	A4	3.042100E+06	13.89180E+06		F	Normal	0	0.0000
81	A5	3.042300E+06	13.89180E+06		F	Normal	0	0.0000
82	A6	3.042500E+06	13.89180E+06		F	Normal	0	0.0000
83	A7	3.042700E+06	13.89180E+06		F	Normal	0	0.0000
84	A8	3.042900E+06	13.89180E+06		F	Normal	0	0.0000
85	A9	3.043100E+06	13.89180E+06		F	Normal	0	0.0000
86	B2	3.042900E+06	13.89160E+06		F	Normal	0	0.0000
87	B1	3.043200E+06	13.89140E+06		F	Normal	0	0.0000
88	E135-05	3.048416E+06	13.89048E+06		F	Normal	0	0.0000
89	E135-01	3.048400E+06	13.89220E+06		F	Normal	0	0.0000
90	E112-00	3.040300E+06	13.89220E+06		F	Normal	0	0.0000
91	A-1AA	3.040214E+06	13.89097E+06		F	Normal	0	0.0000
92	AD-3	3.038275E+06	13.89185E+06		F	Normal	0	0.0000
93	AD-4	3.038511E+06	13.89173E+06		F	Normal	0	0.0000
94	AD-5	3.038718E+06	13.89165E+06		F	Normal	0	0.0000
95	AD-5A	3.038933E+06	13.89155E+06		F	Normal	0	0.0000
96	AD-6	3.038700E+06	13.89220E+06		F	Normal	0	0.0000
97	AD-2	3.038900E+06	13.89210E+06		F	Normal	0	0.0000
98	A-1AB	3.038307E+06	13.89109E+06		F	Normal	0	0.0000
99	E135-08	3.048416E+06	13.89000E+06		F	Normal	0	0.0000
100	ML-D1	3.047500E+06	13.89050E+06		F	Normal	0	0.0000
101	A-1BB	3.038307E+06	13.89129E+06		F	Normal	0	0.0000
102	A-3AD	3.037724E+06	13.89109E+06		F	Normal	0	0.0000
103	A-1AE	3.037122E+06	13.89109E+06		F	Normal	0	0.0000
104	A-1AF	3.036622E+06	13.89109E+06	No	P	Normal	0	0.0000
105	ML-D8	3.036592E+06	13.89052E+06	No	P	Normal	0	0.0000
106	ML-D7	3.037092E+06	13.89052E+06		F	Normal	0	0.0000
107	ML-D6	3.037692E+06	13.89052E+06		F	Normal	0	0.0000
108	ML-D5	3.037992E+06	13.89052E+06		F	Normal	0	0.0000
109	ML-D4	3.039092E+06	13.89052E+06		F	Normal	0	0.0000
110	ML-D3	3.044600E+06	13.89050E+06		F	Normal	0	0.0000
111	A-2AD	3.037732E+06	13.89131E+06		F	Normal	0	0.0000
112	A-1AD	3.037858E+06	13.89109E+06		F	Normal	0	0.0000
113	A-1AC	3.038022E+06	13.89109E+06		F	Normal	0	0.0000
114	E112-OUT	3.040375E+06	13.89223E+06	No	P	Normal	0	0.0000
115	E135-07	3.048417E+06	13.89014E+06		F	Normal	0	0.0000
116	E135-06	3.048414E+06	13.89035E+06		F	Normal	0	0.0000
117	E535-02	3.048161E+06	13.89015E+06	No	P	Normal	0	0.0000
118	B-12A	3.045016E+06	13.89105E+06		F	Normal	0	0.0000

Table E4 - Conduit Connectivity

Input Number	Conduit Name	Upstream Node	Downstream Node	Upstream Elevation	Downstream Elevation	
1	L-B1	B1	B2	114.4900	112.2400	No Design
2	L-B2	B2	A11	111.2400	110.7200	No Design
3	L-C1	C1	C2	113.6200	113.3700	No Design
4	L-C2	C2	C3	112.8700	112.3000	No Design
5	L-C3	C3	C4	112.2800	112.2500	No Design
6	L-C4	C4	C5	112.2500	111.6700	No Design
7	L-C5	C5	C6	111.1700	110.8700	No Design
8	L-C6	C6	A12	110.8700	109.9400	No Design
9	L-D1	D1	D2	113.7200	113.0900	No Design
10	L-D2	D2	D3	112.5900	112.2700	No Design
11	L-D3	D3	D4	112.2700	111.9900	No Design
12	L-D4	D4	A13	111.9900	109.3200	No Design
13	L-E1	E1	E2	113.2200	112.4800	No Design
14	L-E2	E2	E3	111.9800	111.7200	No Design
15	L-E4	E4	E3	112.4200	111.7200	No Design
16	L-E3	E3	A14	111.7200	108.3500	No Design
17	L-F1	F1	F2	111.5200	111.0600	No Design
18	L-F2	F2	F3	111.0600	110.6400	No Design
19	L-F3	F3	F4	110.1400	109.7200	No Design
20	L-F4	F4	F5	109.7200	108.8600	No Design

21	L-F5	F5	F6	108.3600	107.9600	No Design
22	L-F7	F7	F6	110.3200	108.9600	No Design
23	L-F6	F6	A15	107.9600	106.2300	No Design
24	L-A1	A1	A2	115.9200	115.6200	No Design
25	L-A2	A2	A3	115.6200	115.3200	No Design
26	L-A3	A3	A4	114.8200	114.5200	No Design
27	L-A4	A4	A5	114.5200	114.2200	No Design
28	L-A5	A5	A6	114.2200	113.9200	No Design
29	L-A6	A6	A7	113.4800	113.1200	No Design
30	L-A7	A7	A8	113.1200	112.8200	No Design
31	L-A8	A8	A9	112.8200	112.2200	No Design
32	L-A9	A9	A10	111.7200	111.4500	No Design
33	L-A10	A10	A11	111.4500	110.7600	No Design
34	L-A11	A11	A12	109.7600	109.0200	No Design
35	L-A12	A12	A13	108.0200	107.3300	No Design
36	L-A13	A13	A14	107.3300	106.4900	No Design
37	L-A14	A14	A15	105.4900	104.6300	No Design
38	L-A15	A15	E135-03	104.6300	104.4800	No Design
39	L-G1	G1	G2	110.6400	110.4100	No Design
40	L-G2	G2	E135-02	110.4100	109.9400	No Design
41	L-M1	M1	L3	110.8000	110.7200	No Design
42	L-L1	L1	L2	111.8200	111.5200	No Design
43	L-L2	L2	L3	111.5200	111.2200	No Design
44	L-L3	L3	L4	110.2200	109.9200	No Design
45	L-L4	L4	L5	109.9200	109.2900	No Design
46	L-L5	L5	L6	108.7900	108.4600	No Design
47	L-L6	L6	L7	108.4600	108.1600	No Design
48	L-L7	L7	L8	108.1600	107.8300	No Design
49	L-L8	L8	L9	107.8300	107.6200	No Design
50	L-L9	L9	E135-02	107.6200	107.0200	No Design
51	L-A-5	A-5	A-6	118.1600	117.7600	No Design
52	L-A-9	A-9	MH-A-7	113.6900	113.5100	No Design
53	L-A-15	A-15	A-14	116.8800	115.2900	No Design
54	L-A-14	A-14	MH-A-10	114.2600	114.0200	No Design
55	L-A-12	A-12	A-13	117.8200	115.6000	No Design
56	L-A-13	A-13	MH-A-10	114.3300	114.0200	No Design
57	L-MH-A-10	MH-A-10	MH-A-9	114.0200	113.4400	No Design
58	L-MH-A-9	MH-A-9	A-10	113.4400	112.5900	No Design
59	L-A-10	A-10	MH-A-3	112.5900	112.5100	No Design
60	L-A-3	A-3	A-2	120.3700	119.9300	No Design
61	L-A-2	A-2	A-6	119.4300	118.7600	No Design
62	L-A-6	A-6	MH-A-2	117.7600	116.1600	No Design
63	L-MH-A-2	MH-A-2	A-8	116.1600	114.7400	No Design
64	L-A-8	A-8	MH-A-5	113.9800	113.7100	No Design
65	L-A-4	A-4	MH-A-7	113.2800	113.0200	No Design
66	L-MH-A-7	MH-A-7	MH-A-5	113.0200	112.8600	No Design
67	L-MH-A-5	MH-A-5	MH-A-4	112.8600	112.6800	No Design
68	L-MH-A-4	MH-A-4	MH-A-3	112.6800	112.5100	No Design
69	L-MH-A-3	MH-A-3	A-7	112.5100	112.4600	No Design
70	L-A-7	A-7	E112-01	112.4600	112.3000	No Design
71	L-A-2A	A-1A	A-2A	118.6600	118.3000	No Design
72	L-A-5A	A-2A	A-5A	118.3000	116.9000	No Design
73	L-A-8A	A-5A	A-8A	116.9000	116.7000	No Design
74	L-B-10A	A-8A	B-10A	116.7000	115.7000	No Design
75	L-B-11A	B-10A	B-11A	115.7000	115.6200	No Design
76	L-B-13A	B-11A	B-13A	115.6200	114.7000	No Design
77	L-B-14A	B-13A	B-14A	114.7000	114.3400	No Design
78	L-B-16A	B-14A	B-16A	114.3400	113.9300	No Design
79	L-B-18A	B-16A	B-18A	113.9300	113.1200	No Design
80	L-D-3A	D-4A	D-3A	113.7000	113.2200	No Design
81	L-D-2A	D-3A	D-2A	113.2200	113.0500	No Design
82	L-E13504.1	D-2A	E135-04	113.0500	108.5900	No Design
83	L-E13504	B-18A	E135-04	113.1200	108.9000	No Design
84	E135.4	E135-05	E135-04	105.7900	105.4200	No Design
85	E135.3	E135-04	E135-03	105.4200	104.4800	No Design
86	E135.2	E135-03	E135-02	104.4800	104.1400	No Design
87	E135.1	E135-02	E135-01	104.1400	103.7300	No Design
88	L-E112-01	E112-01	E112-00	112.3000	110.4568	No Design
89	L-A-1A	A-1AA	A-1A	120.0800	118.6600	No Design
90	L-AD-3	AD-3	AD-4	123.7900	122.2100	No Design
91	L-AD-4	AD-4	AD-5	122.2100	121.8900	No Design
92	L-AD-5	AD-5	AD-5A	121.8900	121.4100	No Design
93	L-AD-5A	AD-5A	A-4	121.4100	120.0500	No Design
94	E135.7	E135-08	E135-07	106.8000	106.0206	No Design
95	L-E13505	ML-D1	E135-05	110.5000	107.5000	No Design
96	L-AD-6	AD-6	AD-2	122.0000	121.2300	No Design
97	L-AD-2	AD-2	A-7	121.2300	121.0000	No Design
98	L-A-1AB	A-1AB	A-1BB	121.9900	121.9000	No Design
99	L-A-1BB	A-1BB	A-9	121.9000	119.6000	No Design
100	L-A-1AE	A-1AE	A-3AD	128.6900	123.0000	No Design
101	L-A-1AF	A-1AF	A-1AE	134.0000	128.6900	No Design
102	L-ML-D7	ML-D8	ML-D7	132.9800	127.6590	No Design
103	L-ML-D6	ML-D7	ML-D6	127.6590	122.5900	No Design
104	L-ML-D5	ML-D6	ML-D5	122.5900	122.1700	No Design
105	L-ML-D4	ML-D5	ML-D4	122.1700	119.9710	No Design
106	L-ML-D3	ML-D4	ML-D3	119.9710	116.2000	No Design
107	L-ML-D1	ML-D3	ML-D1	116.2000	110.5000	No Design
108	L-A-2AD	A-2AD	A-3AD	123.3000	123.0000	No Design
109	L-A-3AD	A-3AD	A-1AD	123.0000	122.6000	No Design
110	L-A-1AD	A-1AD	A-1AC	122.6000	122.1600	No Design
111	L-A-1AC	A-1AC	A-1AB	122.1600	121.9900	No Design
112	L-A4-A9	A-4	A-9	120.0500	119.6000	No Design
113	L-E112-OUT	E112-00	E112-OUT	110.4568	110.2768	No Design
114	E135.6	E135-07	E135-06	106.0206	105.8960	No Design
115	Link980	B-12A	B-11A	116.5000	115.6200	No Design
116	.5-RCP	E135-06	E135-05	105.8960	105.7900	No Design
117	.5-WEIR	E135-06	E135-05	113.9400	113.9400	No Design
118	RCP-02	E535-02	E135-07	107.0000	106.0206	No Design

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| Storage Junction Data |
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STORAGE JUNCTION NUMBER OR NAME	JUNCTION TYPE	MAXIMUM OR CONSTANT SURFACE AREA (FT2)	PEAK OR CONSTANT VOLUME (CUBIC FEET)	CROWN ELEVATION (FT)	DEPTH STARTS FROM
A-2AD	Stage/Area	1.571209E+06	8.388425E+06	129.7000	Node Invert
E535-02	Stage/Area	314938.8000	2.731377E+06	117.0000	Node Invert

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| Variable storage data for node | A-2AD
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	123.3000	0.0000	43.5600	0.0000	0.0010	0.0000
2	123.4250	0.1250	86613.6150	3691.6487	1.9884	0.0847
3	123.5500	0.2500	173183.6700	19619.6500	3.9758	0.4504
4	123.6750	0.3750	259753.7250	46496.0798	5.9631	1.0674
5	123.8000	0.5000	346323.7800	84246.4541	7.9505	1.9340
6	123.9250	0.6250	432893.8350	132847.0583	9.9379	3.0497
7	124.0500	0.7500	519463.8900	192287.2744	11.9253	4.4143
8	124.1750	0.8750	606033.9450	262561.4245	13.9126	6.0276
9	124.3000	1.0000	692604.0000	343666.1151	15.9000	7.8895
10	124.4250	1.1250	802429.6500	437021.5647	18.4213	10.0326
11	124.5500	1.2500	912255.3000	544116.0244	20.9425	12.4912

12	124.6750	1.3750	1022080.950	664947.0338	23.4638	15.2651
13	124.8000	1.5000	1131906.600	799512.8876	25.9850	18.3543
14	124.9250	1.6250	1241732.250	947812.3549	28.5062	21.7588
15	125.0500	1.7500	1351557.900	1.109845E+06	31.0275	25.4785
16	125.1750	1.8750	1461383.550	1.285609E+06	33.5487	29.5135
17	125.3000	2.0000	1571209.200	1.475104E+06	36.0700	33.8637
18	129.7000	6.4000	1571209.200	8.388425E+06	36.0700	192.5717

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| Variable storage data for node | E535-02
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	107.0000	0.0000	43.5600	0.0000	0.0010	0.0000
2	107.1250	0.1250	31401.3150	1358.9343	0.7209	0.0312
3	107.2500	0.2500	62759.0700	7131.9821	1.4407	0.1637
4	107.3750	0.3750	94116.8250	16870.7676	2.1606	0.3873
5	107.5000	0.5000	125474.5800	30548.3453	2.8805	0.7013
6	107.6250	0.6250	156832.3350	48156.1324	3.6004	1.1055
7	107.7500	0.7500	188190.0900	69690.2850	4.3202	1.5999
8	107.8750	0.8750	219547.8450	95148.7477	5.0401	2.1843
9	108.0000	1.0000	250905.6000	124530.2916	5.7600	2.8588
10	108.1250	1.1250	251994.6000	155961.5295	5.7850	3.5804
11	108.2500	1.2500	253083.6000	187528.8926	5.8100	4.3051
12	108.3750	1.3750	254172.6000	219232.3807	5.8350	5.0329
13	108.5000	1.5000	255261.6000	251071.9940	5.8600	5.7638
14	108.6250	1.6250	256350.6000	283047.7323	5.8850	6.4979
15	108.7500	1.7500	257439.6000	315159.5958	5.9100	7.2351
16	108.8750	1.8750	258528.6000	347407.5843	5.9350	7.9754
17	109.0000	2.0000	259617.6000	379791.6980	5.9600	8.7188
18	109.1250	2.1250	260761.0500	412315.3374	5.9863	9.4655
19	109.2500	2.2500	261904.5000	444981.9083	6.0125	10.2154
20	109.3750	2.3750	263047.9500	477791.4104	6.0388	10.9686
21	109.5000	2.5000	264191.4000	510743.8440	6.0650	11.7251
22	109.6250	2.6250	265334.8500	543839.2089	6.0912	12.4848
23	109.7500	2.7500	266478.3000	577077.5051	6.1175	13.2479
24	109.8750	2.8750	267621.7500	610458.7328	6.1437	14.0142
25	110.0000	3.0000	268765.2000	643982.8918	6.1700	14.7838
26	110.1250	3.1250	269854.2000	677646.5813	6.1950	15.5566
27	110.2500	3.2500	270943.2000	711446.3960	6.2200	16.3326
28	110.3750	3.3750	272032.2000	745382.3357	6.2450	17.1116
29	110.5000	3.5000	273121.2000	779454.4006	6.2700	17.8938
30	110.6250	3.6250	274210.2000	813662.5905	6.2950	18.6791
31	110.7500	3.7500	275299.2000	848006.9055	6.3200	19.4676
32	110.8750	3.8750	276388.2000	882487.3456	6.3450	20.2591
33	111.0000	4.0000	277477.2000	917103.9108	6.3700	21.0538
34	111.1250	4.1250	278620.6500	951860.0020	6.3963	21.8517
35	111.2500	4.2500	279764.1000	986759.0244	6.4225	22.6529
36	111.3750	4.3750	280907.5500	1.021801E+06	6.4488	23.4573
37	111.5000	4.5000	282051.0000	1.056986E+06	6.4750	24.2651
38	111.6250	4.6250	283194.4500	1.092314E+06	6.5012	25.0761
39	111.7500	4.7500	284337.9000	1.127784E+06	6.5275	25.8904
40	111.8750	4.8750	285481.3500	1.163398E+06	6.5537	26.7079
41	112.0000	5.0000	286624.8000	1.199155E+06	6.5800	27.5288
42	112.1250	5.1250	287822.7000	1.235058E+06	6.6075	28.3530
43	112.2500	5.2500	289020.6000	1.271110E+06	6.6350	29.1807
44	112.3750	5.3750	290218.5000	1.307313E+06	6.6625	30.0118
45	112.5000	5.5000	291416.4000	1.343665E+06	6.6900	30.8463
46	112.6250	5.6250	292614.3000	1.380167E+06	6.7175	31.6843
47	112.7500	5.7500	293812.2000	1.416818E+06	6.7450	32.5257
48	112.8750	5.8750	295010.1000	1.453620E+06	6.7725	33.3705
49	113.0000	6.0000	296208.0000	1.490571E+06	6.8000	34.2188
50	113.1250	6.1250	297351.4500	1.527668E+06	6.8262	35.0704
51	113.2500	6.2500	298494.9000	1.564909E+06	6.8525	35.9254
52	113.3750	6.3750	299638.3500	1.602292E+06	6.8788	36.7836
53	113.5000	6.5000	300781.8000	1.639818E+06	6.9050	37.6450
54	113.6250	6.6250	301925.2500	1.677487E+06	6.9312	38.5098
55	113.7500	6.7500	303068.7000	1.715300E+06	6.9575	39.3779
56	113.8750	6.8750	304212.1500	1.753255E+06	6.9837	40.2492
57	114.0000	7.0000	305355.6000	1.791353E+06	7.0100	41.1238
58	114.1250	7.1250	306553.5000	1.829597E+06	7.0375	42.0018
59	114.2500	7.2500	307751.4000	1.867991E+06	7.0650	42.8832
60	114.3750	7.3750	308949.3000	1.906535E+06	7.0925	43.7680
61	114.5000	7.5000	310147.2000	1.945228E+06	7.1200	44.6563
62	114.6250	7.6250	311345.1000	1.984071E+06	7.1475	45.5480
63	114.7500	7.7500	312543.0000	2.023064E+06	7.1750	46.4432
64	114.8750	7.8750	313740.9000	2.062207E+06	7.2025	47.3418
65	115.0000	8.0000	314938.8000	2.101500E+06	7.2300	48.2438
66	115.2500	8.2500	314938.8000	2.180234E+06	7.2300	50.0513
67	115.5000	8.5000	314938.8000	2.258969E+06	7.2300	51.8588
68	115.7500	8.7500	314938.8000	2.337704E+06	7.2300	53.6663
69	116.0000	9.0000	314938.8000	2.416438E+06	7.2300	55.4738
70	116.2500	9.2500	314938.8000	2.495173E+06	7.2300	57.2813
71	116.5000	9.5000	314938.8000	2.573908E+06	7.2300	59.0888
72	116.7500	9.7500	314938.8000	2.652642E+06	7.2300	60.8963
73	117.0000	10.0000	314938.8000	2.731377E+06	7.2300	62.7038

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| Weir Data |
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Weir Name	From Junction	To Junction	Type	Crest Height(ft)	Weir Top(ft)	Weir Length(ft)	Discharge Coefficient	Weir Power
E535-02-00 WEIR	E535-02	E135-07	3	5.00	8.00	55.00	2.6000	1.6667

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| FREE OUTFALL DATA (DATA GROUP I1) |
| BOUNDARY CONDITION ON DATA GROUP J1 |
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Outfall at Junction....E135-01 has boundary condition number... 1
Outfall at Junction....E112-OUT has boundary condition number... 2

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| Weir Outfall Data |
| Boundary Condition on data group J1 |
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| INTERNAL CONNECTIVITY INFORMATION |
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CONDUIT	JUNCTION	JUNCTION
E535-02-00 WEIR	E535-02	E135-07
FREE # 1	E135-01	BOUNDARY
FREE # 2	E112-OUT	BOUNDARY

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| Boundary Condition Information |
| Data Groups J1-J4 |

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| Outlet: E135-01 |
| Downstream Rating Curve Information |
| for Boundary Condition =   1. |
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No.	Flow(cfs)	Depth(ft)	No.	Flow(cfs)	Depth(ft)	No.	Flow(cfs)	Depth(ft)
1	0.00	0.000	2	770.00	9.130	3	1160.00	10.580
4	1360.00	11.120	5	1820.00	11.400			

BC NUMBER.. 2 has no control water surface.

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| XP Note Field Summary |
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| Table E9 - JUNCTION SUMMARY STATISTICS |
| The Maximum area is only the area of the node, it |
| does not include the area of the surrounding conduits |
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Junction Name	Ground Elevation feet	Uppermost PipeCrown Elevation feet	Maximum Junction Elevation feet	Time of Occurence Hr.	Time of Occurence Min.	Feet of Surcharge at Max Elevation	Freeboard of node feet	Maximum Junction Area ft^2	Maximum Gutter Depth feet	Maximum Gutter Width feet	Maximum Gutter Velocity ft/s
MH-A-2	124.5000	119.6600	124.5032	17	8	4.8432	0.0000	5024.5931	0.0000	0.0000	0.0000
MH-A-7	128.2300	118.0200	120.9632	16	34	2.9432	7.2668	12.5660	0.0000	0.0000	0.0000
MH-A-5	126.1000	117.8600	120.8805	16	31	3.0205	5.2195	12.5660	0.0000	0.0000	0.0000
A-10	124.0000	116.5900	120.6743	16	31	4.0843	3.3257	12.5660	0.0000	0.0000	0.0000
MH-A-4	124.0000	117.6800	120.7384	16	35	3.0584	3.2616	12.5660	0.0000	0.0000	0.0000
A-14	123.0000	117.2600	121.9022	17	8	4.6422	1.0978	12.5660	0.0000	0.0000	0.0000
A-13	121.0000	117.3300	121.6906	16	34	4.3606	0.0000	9974.9441	0.0000	0.0000	0.0000
A-15	121.5000	118.3800	122.4863	16	45	4.1063	0.0000	13406.573	0.0000	0.0000	0.0000
A11	116.0200	113.7600	115.7422	16	16	1.9822	0.2778	12.5660	0.0000	0.0000	0.0000
A10	117.6100	114.4500	115.7611	16	16	1.3111	1.8489	12.5660	0.0000	0.0000	0.0000
A12	115.2200	113.0200	115.1500	16	17	2.1300	0.0700	12.5660	0.0000	0.0000	0.0000
A14	114.6200	111.4900	114.2425	18	23	2.7525	0.3775	12.5660	0.0000	0.0000	0.0000
A15	112.6000	110.6300	114.2401	18	23	3.6101	0.0000	25778.304	0.0000	0.0000	0.0000
A-12	121.0000	119.3200	121.7459	16	36	2.4259	0.0000	10541.663	0.0000	0.0000	0.0000
MH-A-3	123.1900	117.5100	120.6041	16	31	3.0941	2.5859	12.5660	0.0000	0.0000	0.0000
A13	115.5200	112.3300	114.6050	16	17	2.2750	0.9150	12.5660	0.0000	0.0000	0.0000
A-3	126.0000	122.3700	126.8840	16	41	4.5140	0.0000	12102.300	0.0000	0.0000	0.0000
A-2	126.0000	121.9300	126.3310	16	39	4.4010	0.0000	6961.8809	0.0000	0.0000	0.0000
A-6	125.5000	121.2600	125.6201	17	13	4.3601	0.0000	5789.9464	0.0000	0.0000	0.0000
A-5	124.0000	120.6600	125.5815	16	43	4.9215	0.0000	24312.332	0.0000	0.0000	0.0000
A-8	123.5000	118.2400	121.4248	16	31	3.1848	2.0752	12.5660	0.0000	0.0000	0.0000
A-9	124.0000	123.6000	121.0989	16	35	0.0000	2.9011	12.5660	0.0000	0.0000	0.0000
MH-A-10	122.0000	118.0200	121.7421	17	4	3.7221	0.2579	12.5660	0.0000	0.0000	0.0000
A-1A	125.0000	121.6600	120.3046	16	20	0.0000	4.6954	12.5660	0.0000	0.0000	0.0000
A-2A	125.0000	121.3000	120.0350	16	40	0.0000	4.9650	12.5660	0.0000	0.0000	0.0000
A-5A	125.0000	119.9000	119.8596	16	51	0.0000	5.1404	12.5660	0.0000	0.0000	0.0000
A-8A	125.0000	119.7000	119.7219	16	54	0.0219	5.2781	12.5660	0.0000	0.0000	0.0000
B-10A	125.0000	118.7000	119.5429	16	53	0.8429	5.4571	12.5660	0.0000	0.0000	0.0000
B-11A	125.0000	118.6200	119.1957	16	52	0.5757	5.8043	12.5660	0.0000	0.0000	0.0000
B-13A	125.0000	117.7000	118.8386	16	53	1.1386	6.1614	12.5660	0.0000	0.0000	0.0000
B-14A	125.0000	117.3400	118.4815	16	52	1.1415	6.5185	12.5660	0.0000	0.0000	0.0000
B-16A	125.0000	116.9300	117.6986	16	52	0.7686	7.3014	12.5660	0.0000	0.0000	0.0000
B-18A	125.0000	116.1200	115.3189	16	21	0.0000	9.6811	12.5660	0.0000	0.0000	0.0000
E135-04	125.0000	117.6100	114.3186	18	23	0.0000	10.6814	12.5660	0.0000	0.0000	0.0000
D-2A	125.0000	116.0500	114.3190	18	23	0.0000	10.6810	12.5660	0.0000	0.0000	0.0000
D-3A	125.0000	116.2200	114.3223	18	24	0.0000	10.6777	12.5660	0.0000	0.0000	0.0000
D-4A	125.0000	116.7000	114.4603	16	6	0.0000	10.5397	12.5660	0.0000	0.0000	0.0000
C1	117.6100	115.1200	115.4299	16	17	0.3099	2.1801	12.5660	0.0000	0.0000	0.0000
C2	117.8200	114.8700	115.4129	16	17	0.5429	2.4071	12.5660	0.0000	0.0000	0.0000
C3	117.9100	114.3000	115.3908	16	17	1.0908	2.5192	12.5660	0.0000	0.0000	0.0000
C4	116.4700	114.2500	115.3802	16	17	1.1302	1.0898	12.5660	0.0000	0.0000	0.0000
C5	117.9900	113.6700	115.2373	16	17	1.5673	2.7527	12.5660	0.0000	0.0000	0.0000
C6	117.7700	113.3700	115.1802	16	17	1.8102	2.5898	12.5660	0.0000	0.0000	0.0000
D1	117.7000	115.2200	115.0952	16	15	0.0000	2.6048	12.5660	0.0000	0.0000	0.0000
D2	117.6200	114.5900	114.8824	16	17	0.2924	2.7376	12.5660	0.0000	0.0000	0.0000
D3	117.3100	114.2700	114.8022	16	17	0.5322	2.5078	12.5660	0.0000	0.0000	0.0000
D4	118.2200	113.9900	114.6966	16	17	0.7066	3.5234	12.5660	0.0000	0.0000	0.0000
E1	116.6400	114.7200	114.2471	18	23	0.0000	2.3929	12.5660	0.0000	0.0000	0.0000
E2	116.3200	113.9800	114.2452	18	23	0.2652	2.0748	12.5660	0.0000	0.0000	0.0000
E3	116.2100	113.7200	114.2434	18	23	0.5234	1.9666	12.5660	0.0000	0.0000	0.0000
E4	116.4200	113.9200	114.2444	18	23	0.3244	2.1756	12.5660	0.0000	0.0000	0.0000
F1	115.6600	113.0200	114.2437	18	22	1.2237	1.4163	12.5660	0.0000	0.0000	0.0000
F2	115.1800	112.5600	114.2433	18	22	1.6833	0.9367	12.5660	0.0000	0.0000	0.0000
F3	114.8300	112.1400	114.2425	18	23	2.1025	0.5875	12.5660	0.0000	0.0000	0.0000
F4	115.2200	111.7200	114.2420	18	22	2.5220	0.9780	12.5660	0.0000	0.0000	0.0000
F5	114.8000	110.8600	114.2406	18	22	3.3806	0.5594	12.5660	0.0000	0.0000	0.0000
F6	114.2500	110.4600	114.2404	18	23	3.7804	0.0096	12.5660	0.0000	0.0000	0.0000
F7	114.3300	111.8200	114.2416	18	22	2.4216	0.0884	12.5660	0.0000	0.0000	0.0000
L9	115.0600	110.6200	114.2241	18	24	3.6041	0.8359	12.5660	0.0000	0.0000	0.0000
L8	114.6000	110.8300	114.2245	18	24	3.3945	0.3755	12.5660	0.0000	0.0000	0.0000
L7	114.8800	111.1600	114.2250	18	24	3.0650	0.6550	12.5660	0.0000	0.0000	0.0000
L6	115.1800	111.4600	114.2253	18	24	2.7653	0.9547	12.5660	0.0000	0.0000	0.0000
L5	115.5100	111.7900	114.2256	18	24	2.4356	1.2844	12.5660	0.0000	0.0000	0.0000
L4	115.5300	112.4200	114.2819	21	9	1.8619	1.2481	12.5660	0.0000	0.0000	0.0000
L3	115.3000	112.7200	114.3668	21	5	1.6468	0.9332	12.5660	0.0000	0.0000	0.0000
M1	114.8000	112.8000	114.4267	21	5	1.6267	0.3733	12.5660	0.0000	0.0000	0.0000
L2	115.5200	113.0200	114.6918	21	4	1.6718	0.8282	12.5660	0.0000	0.0000	0.0000
L1	115.8200	113.3200	114.8723	21	4	1.5523	0.9477	12.5660	0.0000	0.0000	0.0000
E135-03	116.7000	116.6700	114.2360	18	24	0.0000	2.4640	12.5660	0.0000	0.0000	0.0000
G1	114.6100	112.1400	114.2234	18	23	2.0834	0.3866	12.5660	0.0000	0.0000	0.0000
G2	115.0500	111.9100	114.2232	18	23	2.3132	0.8268	12.5660	0.0000	0.0000	0.0000
E135-02	118.8300	116.6900	114.2226	18	24	0.0000	4.6074	12.5660	0.0000	0.0000	0.0000
A-4	124.0000	123.5500	121.1572	16	32	0.0000	2.8428	12.5660	0.0000	0.0000	0.0000
A-7	123.5000	123.5000	120.5158	16	30	0.0000	2.9842	12.5660	0.0000	0.0000	0.0000
E112-01	123.0000	117.3000	120.2537	16	35	2.9537	2.7463	12.5660	0.0000	0.0000	0.0000
MH-A-9	122.5000	117.4400	121.2965	17	4	3.8565	1.2035	12.5660	0.0000	0.0000	0.0000
A1	119.9200	117.4200	116.4728	16	0	0.0000	3.4472	12.5660	0.0000	0.0000	0.0000
A2	119.6200	117.1200	116.3220	16	0	0.0000	3.2980	12.5660	0.0000	0.0000	0.0000
A3	119.3200	116.8200	116.0503	16	16	0.0000	3.2697	12.5660	0.0000	0.0000	0.0000
A4	119.0200	116.5200	116.0283	16	16	0.0000	2.9917	12.5660	0.0000	0.0000	0.0000
A5	119.1800	116.2200	115.9992	16	16	0.0000	3.1808	12.5660	0.0000	0.0000	0.0000
A6	119.4800	115.9800	115.9679	16	16	0.0000	3.5121	12.5660	0.0000	0.0000	0.0000
A7	118.5800	115.6200	115.9384	16	16	0.3184	2.6416	12.5660	0.0000	0.0000	0.0000
A8	117.9000	115.3200	115.8958	16	16	0.5758	2.0042	12.5660	0.0000	0.0000	0.0000
A9	117.8200	114.7200	115.7867	16	16	1.0667	2.0333	12.5660	0.0000	0.0000	0.0000
B2	116.2200	114.2400	116.2318	16	17	1.9918	0.0000	5059.1164	0.0000	0.0000	0.0000
B1	118.7700	116.4900	117.0690	16	14	0.5790	1.7010	12.5660	0.0000	0.0000	0.0000
E135-05	119.0000	117.9800	114.3610	18	24	0.0000	4.6390	12.5660	0.0000	0.0000	0.0000
E135-01	118.8300	116.2800	114.2050	18	24	0.0000	4.6250	12.5660	0.0000	0.0000	0.0000
E112-00	120.0000	119.4568	115.8964	16	32	0.0000	4.1036	12.5660	0.0000	0.0000	0.0000
A-1AA	125.0000	123.0800	121.8386	16	15	0.0000	3.1614	12.5660	0.0000	0.0000	0.0000
AD-3	126.4000	126.2900	126.0496	16	31	0.0000	0.3504	12.5660	0.0000	0.0000	0.0000
AD-4	126.4000	125.2100	125.6755	16	36	0.4655	0.7245	12.5660	0.0000	0.0000	0.0000
AD-5	125.4000	124.8900	125.5223	16	39	0.6323	0.0000	5650.4222	0.0000	0.0000	0.0000
AD-5A	127.1000	124.4100	125.0147	16	42	0.6047	2.0853	12.5660	0.0000	0.0000	0.0000
AD-6	125.7200	124.0000	123.7771	16	16	0.0000	1.9429	12.5660	0.0000	0.0000	0.0000

AD-2	125.7200	123.7300	122.9857	16	18	0.0000	2.7343	12.5660	0.0000	0.0000	0.0000
A-1AB	128.5000	125.9900	125.8894	22	34	0.0000	2.6106	12.5660	0.0000	0.0000	0.0000
E135-08	117.0000	116.9200	116.5095	18	26	0.0000	0.4905	12.5660	0.0000	0.0000	0.0000
ML-D1	120.0000	114.5000	114.3709	18	24	0.0000	5.6291	12.5660	0.0000	0.0000	0.0000
A-1BB	128.5000	125.9000	124.8202	22	53	0.0000	3.6798	12.5660	0.0000	0.0000	0.0000
A-3AD	129.3050	127.0000	125.9918	22	41	0.0000	3.3132	12.5660	0.0000	0.0000	0.0000
A-1AE	132.5000	131.6900	131.0684	17	41	0.0000	1.4316	12.5660	0.0000	0.0000	0.0000
A-1AF	137.0000	136.0000	136.3369	17	24	0.3369	0.6631	12.5660	0.0000	0.0000	0.0000
ML-D8	137.1400	134.9800	134.9727	17	19	0.0000	2.1673	12.5660	0.0000	0.0000	0.0000
ML-D7	132.0000	131.6590	130.0982	17	31	0.0000	1.9018	12.5660	0.0000	0.0000	0.0000
ML-D6	128.5000	126.5900	129.4869	20	56	2.8969	0.0000	13413.862	0.0000	0.0000	0.0000
ML-D5	128.5000	126.1700	129.4598	21	1	3.2898	0.0000	13055.359	0.0000	0.0000	0.0000
ML-D4	125.5100	123.9710	129.3342	22	8	5.3632	0.0000	228991.46	0.0000	0.0000	0.0000
ML-D3	120.1100	118.2000	125.7382	34	29	7.5382	0.0000	1390823.6	0.0000	0.0000	0.0000
A-2AD	129.7000	126.3000	126.0254	23	7	0.0000	3.6746	1571209.2	0.0000	0.0000	0.0000
A-1AD	129.8000	126.6000	125.9395	22	38	0.0000	3.8605	12.5660	0.0000	0.0000	0.0000
A-1AC	129.4000	126.1600	125.9063	22	35	0.0000	3.4937	12.5660	0.0000	0.0000	0.0000
E112-OUT	120.0000	119.2768	115.7162	16	33	0.0000	4.2838	12.5660	0.0000	0.0000	0.0000
E135-07	117.0500	117.0206	116.4016	18	25	0.0000	0.6484	12.5660	0.0000	0.0000	0.0000
E135-06	117.0000	117.0000	116.3815	18	25	0.0000	0.6185	12.5660	0.0000	0.0000	0.0000
E535-02	117.0000	109.0000	116.4144	18	51	7.4144	0.5856	314938.80	0.0000	0.0000	0.0000
B-12A	118.5000	118.5000	119.5194	16	43	1.0194	0.0000	13858.263	0.0000	0.0000	0.0000

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| Table E10 - CONDUIT SUMMARY STATISTICS |
| Note: The peak flow may be less than the design flow |
| and the conduit may still surcharge because of the |
| downstream boundary conditions. |
| |
| * denotes an open conduit that has been overtopped |
| this is a potential source of severe errors |
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Conduit Name	Design Flow (cfs)	Conduit Design Velocity (ft/s)	Maximum Vertical Depth (in)	Maximum Computed Flow (cfs)	Time of Occurence Hr.	Time of Occurence Min.	Maximum Computed Velocity (ft/s)	Time of Occurence Hr.	Time of Occurence Min.	Ratio of Max. to Design Flow	Maximum Water Elev at Pipe Ends Upstream (ft)	Maximum Water Elev at Pipe Ends Dwnstrm (ft)	Ratio d/D US	Ratio d/D DS	
L-B1	22.8262	7.2658	24.0000	14.0264	16	15	7.1674	15	56	0.6145	117.0690	116.2318	1.289	1.996	
L-B2	27.4952	3.8898	36.0000	27.6048	16	14	4.4137	15	47	1.0040	116.2318	115.7422	1.664	1.674	
L-C1	5.9469	3.3653	18.0000	2.0776	16	4	3.0736	16	0	0.3494	115.4299	115.4129	1.207	1.362	
L-C2	12.4235	3.9545	24.0000	2.6884	16	5	2.1293	16	0	0.2164	115.4129	115.3908	1.271	1.545	
L-C3	7.1538	2.2771	24.0000	4.9095	15	59	2.8164	15	59	0.6863	115.3908	115.3802	1.555	1.565	
L-C4	12.5989	4.0103	24.0000	7.1530	15	58	4.3191	15	57	0.5678	115.3802	115.2373	1.565	1.784	
L-C5	23.2962	4.7459	30.0000	10.7620	16	6	5.9247	15	51	0.4620	115.2373	115.1802	1.627	1.724	
L-C6	56.5079	11.5117	30.0000	10.7339	16	6	7.7832	15	41	0.1900	115.1802	115.1500	1.724	2.084	
L-D1	5.8518	3.3115	18.0000	3.8629	16	5	3.7238	16	3	0.6601	115.0952	114.8824	0.917	1.195	
L-D2	12.9271	4.1148	24.0000	6.9703	16	2	4.0492	16	0	0.5392	114.8824	114.8022	1.146	1.266	
L-D3	12.7608	4.0619	24.0000	8.3818	16	2	6.0872	15	57	0.6568	114.8022	114.6966	1.266	1.353	
L-D4	52.8076	16.8092	24.0000	10.5584	16	0	10.9848	15	37	0.1999	114.6966	114.6050	1.353	2.643	
L-E1	6.7352	3.8113	18.0000	1.5868	16	4	3.1383	16	1	0.2356	114.2471	114.2452	0.685	1.177	
L-E2	8.4809	2.6995	24.0000	3.5917	16	7	3.2795	15	57	0.4235	114.2452	114.2434	1.133	1.262	
L-E4	9.2640	5.2423	18.0000	2.7702	16	7	4.4162	15	57	0.2990	114.2444	114.2434	1.216	1.682	
L-E3	59.9422	19.0802	24.0000	9.5072	16	7	9.0034	15	22	0.1586	114.2434	114.2425	1.262	2.946	
L-F1	6.9527	3.9344	18.0000	3.2952	16	15	3.0035	15	55	0.4739	114.2437	114.2433	1.816	2.122	
L-F2	6.8767	3.8914	18.0000	4.9012	16	14	4.1772	15	53	0.7127	114.2433	114.2425	2.122	2.402	
L-F3	14.8098	4.7141	24.0000	7.6998	16	14	4.1742	15	47	0.5199	114.2425	114.2420	2.051	2.261	
L-F4	14.6525	4.6640	24.0000	8.8475	16	14	4.2886	15	41	0.6038	114.2420	114.2406	2.261	2.690	
L-F5	26.2049	5.3384	30.0000	10.2051	16	13	4.0850	15	34	0.3894	114.2406	114.2404	2.352	2.512	
L-F7	9.6845	5.4803	18.0000	4.6085	15	59	4.9696	15	42	0.4759	114.2416	114.2404	2.614	3.520	
L-F6	77.8696	15.8635	30.0000	15.9719	15	42	4.7940	15	33	0.2051	114.2404	114.2401	2.512	3.204	
L-A1	5.9661	3.3761	18.0000	1.6887	16	0	2.4479	16	0	0.2830	116.4728	116.3220	0.369	0.468	
L-A2	6.0647	3.4311	18.0000	2.6520	16	1	3.5156	16	1	0.4373	116.3220	116.0503	0.468	0.487	
L-A3	13.0610	4.1575	24.0000	3.6664	16	1	3.1179	16	1	0.2807	116.0503	116.0283	0.615	0.754	
L-A4	13.0610	4.1575	24.0000	5.1531	16	1	3.9166	16	1	0.3945	116.0283	115.9992	0.754	0.890	
L-A5	14.8098	4.7141	24.0000	5.8326	16	4	4.4922	16	2	0.3938	115.9992	115.9679	0.890	1.024	
L-A6	23.4650	4.7802	30.0000	7.3276	16	4	3.7234	16	2	0.3123	115.9679	115.9383	0.995	1.127	
L-A7	22.6941	4.6232	30.0000	8.9589	16	1	4.1470	16	1	0.3948	115.9384	115.8958	1.127	1.230	
L-A8	22.8698	4.6590	30.0000	10.1179	16	0	4.6509	16	0	0.4424	115.8958	115.7867	1.230	1.427	
L-A9	38.0415	5.3818	36.0000	11.6235	16	20	5.4971	15	50	0.3055	115.7867	115.7610	1.356	1.437	
L-A10	79.9686	11.3132	36.0000	13.1877	16	20	7.1343	15	35	0.1649	115.7611	115.7422	1.437	1.661	
L-A11	55.6245	3.4765	48.0000	50.2403	16	16	3.9127	15	42	0.9032	115.7422	115.1500	1.496	1.532	
L-A12	103.7414	4.1497	60.0000	93.6605	16	15	3.7383	16	15	0.9028	115.1500	114.6050	1.426	1.455	
L-A13	124.0755	4.9630	60.0000	118.9125	16	15	4.7458	16	15	0.9584	114.6050	114.2425	1.455	1.551	
L-A14	156.9598	4.3600	72.0000	138.6263	16	15	3.8431	16	15	0.8832	114.2425	114.2401	1.459	1.602	
L-A15	80.7430	2.2429	72.0000	181.0042	16	17	5.0182	16	17	2.2417	114.2401	114.2360	1.602	1.626	
L-G1	6.0212	3.4073	18.0000	3.3127	16	0	3.4251	15	55	0.5502	114.2234	114.2232	2.389	2.542	
L-G2	5.7843	3.2733	18.0000	3.3019	16	6	3.5386	15	52	0.5708	114.2232	114.2226	2.542	2.855	
L-M1	11.3112	3.6005	24.0000	12.0800	16	15	5.1530	15	58	1.0680	114.4267	114.3668	1.813	1.823	
L-L1	5.9029	3.3404	18.0000	-2.6003	21	8	1.6399	15	58	-0.4405	114.8723	114.6918	2.035	2.115	
L-L2	5.9661	3.3761	18.0000	-4.1984	21	16	3.0138	15	55	-0.7037	114.6918	114.3668	2.115	2.098	
L-L3	23.0496	4.6956	30.0000	15.9116	16	13	4.4858	15	51	0.6903	114.3667	114.2819	1.659	1.745	
L-L4	22.8501	4.6550	30.0000	17.0189	16	13	4.8232	15	48	0.7448	114.2819	114.2256	1.745	1.974	
L-L5	38.3153	5.4205	36.0000	17.9449	16	13	3.9292	15	36	0.4683	114.2256	114.2253	1.812	1.922	
L-L6	38.5083	5.4478	36.0000	19.1503	16	13	3.6616	15	30	0.4973	114.2253	114.2250	1.922	2.022	
L-L7	37.7532	5.3410	36.0000	20.3863	16	13	3.2585	15	26	0.5400	114.2250	114.2245	2.022	2.132	
L-L8	37.9113	5.3633	36.0000	22.9675	16	13	3.2365	16	12	0.6058	114.2245	114.2241	2.132	2.201	
L-L9	37.1888	5.2611	36.0000	25.4245	16	12	3.5814	16	12	0.6837	114.2241	114.2226	2.201	2.401	
L-A-5	18.3895	3.7463	30.0000	45.4994	17	25	9.0529	17	25	2.4742	125.5815	125.6467	2.969	3.155	
L-A-9	63.8853	5.0838	48.0000	48.3487	16	52	5.1550	22	35	0.7568	121.0989	120.9632	1.852	1.863	
L-A-15	6.6394	3.7571	18.0000	11.0549	17	12	6.1891	17	12	1.6651	122.4863	121.8989	3.738	4.406	
L-A-14	26.3306	3.7250	36.0000	19.3334	17	8	2.7224	17	8	0.7343	121.8989	121.7421	2.546	2.574	
L-A-12	24.1502	13.6662	18.0000	17.1726	17	10	9.6220	17	10	0.7111	121.7459	121.6906	2.617	4.060	
L-A-13	26.0644	3.6874	36.0000	42.1244	17	8	5.9151	17	8	1.6162	121.6906	121.7421	2.454	2.574	
L-MH-A-10	55.0428	4.3802	48.0000	50.1657	17	11	3.9786	17	11	0.9114	121.7437	121.2965	1.931	1.964	
L-MH-A-9	55.1324	4.3873	48.0000	51.1299	17	11	4.0528	17	11	0.9274	121.2965	120.6743	1.964	2.021	
L-A-10	56.8912	4.5273	48.0000	68.0416	15	59	5.3901	15	59	1.1960	120.6743	120.6041	2.021	2.024	
L-A-3	10.1633	3.2351	24.0000	21.0391	17	19	6.6354	17	19	2.0701	126.8840	126.3310	3.257	3.201	
L-A-2	18.3709	3.7425	30.0000	28.8624	17	13	5.8262	17	13	1.5711	126.3310	125.6337	2.760	2.749	
L-A-6	45.0787	4.6854	42.0000	62.5972	17	13	6.4636	17	13	1.3886	125.6337	124.5032	2.250	2.384	
L-MH-A-2	36.4477	3.7883	42.0000	60.5043	17	13	6.2600	17	13	1.6600	124.5032	121.4248	2.384	1.910	
L-A-8	45.5025	4.7294	42.0000	70.0658	16	14	7.2366	16	14	1.5398	121.4248	120.8793	2.127	2.048	
L-A-4	315.6259	7.0139	60.0000	190.1491	16	53	4.2161	16	53	0.6025	121.1572	120.9632	1.575	1.589	
L-MH-A-7	315.6259	7.0139	60.0000	235.0440	16	47	5.2090	16	47	0.7447	120.9632	120.8805	1.589	1.604	
L-MH-A-5	319.1924	7.0932	60.0000	296.7307	16	44	6.5752	16	44	0.9296	120.8793	120.7315	1.604	1.610	
L-MH-A-4	315.6259	7.0139	60.0000	296.7767	16	46	6.5763	16	44	0.9403	120.7384	120.6041	1.612	1.619	
L-MH-A-3	288.1257	6.4028	60.0000	351.9499	16	40	7.7960	16	40	1.2215	120.5840	120.5158	1.615	1.611	
L-A-7	321.7157	7.1492	60.0000	402.9072	16	31	8.9275	16	31	1.2524	120.5106	120.2537	1.610	1.591	
L-A-2A	99.5063	3.0153	36.0000	23.3552	16	16	2.0260	16	14	0.2347	120.3046	120.0350	0.548	0.578	
L-A-5A	92.2984	2.7969	36.0000	23.0972	16	14	1.2801	15	16	0.2502	120.0350	119.8596	0.578	0.987	
L-A-8A	30.3548	0.9198	36.0000	31.4703	16	17	1.3257	15	52	1.0368	119.8596	119.7219	0.987	1.007	*
L-B-10A	58.4522	1.7713	36.0000	25.5883	16	19	0.9469	15	45	0.4378	119.7219	119.5429	1.007	1.281	*
L-B-11A	17.7548	0.5380	36.0000	37.4083	17	6	1.1338	17	6	2.1069	119.5429	119.1957	1.281	1.192	*
L-B-13A	91.6874	2.7784	36.0000	57.3228	16	40	1.8941	15	58	0.6252	119.1957	118.8386	1.192	1.380	*
L-B-14A	57.3545	1.7380	36.0000	57.2807	17	0	1.7359	17	0	0.9987	118.8386	118.4815	1.380	1.380	*
L-B-16A	46.5682	1.4112	36.0000	64.3783	16	55	1.9510	16	55	1.3825	118.4815	117.6986	1.380	1.256	*
L-B-18A	58.4097	1.7700	36.0000	72.2695	16	50	2.8413	16	52	1.2373	117.6986	115.3188	1.256	0.733	*
L-D-3A	61.4166	1.8611	36.0000	2.7379	16	6	0.8039	15	55	0.0446	114.4603	114.3223	0.253	0.367	
L-D-2A	48.3514	1.4652	36.0000	2.7338	16	17	0.8358	16	35	0.0565	114.3223	114.3190	0.367	0.423	
L-E13504.1	276.8896	8.3906	36.0000	11.4338	16	3	2.1061	15	27	0.0413	114.3190	114.3186	0.423	1.910	*
L-E13504	162.4161	4.9217	36.0000	91.2809	16	21	3.6547	15	21	0.5620	115.3189	114.3186	0.733	1.806	*
E135.4	15337.49	3.8087	146.2800	1072.005	18	27	4.4762	27	21	0.0699	114.3610	114.3186	0.703	0.730	
E135.3	4755.812	7.7033	129.9600	1114.979	18	23	4.4423	27	21	0.2344	114.3186	114.2360	0.822	0.901	
E135.2	18251.22	4.5322	146.2800	1129.500	18	23	4.0543	27	19	0.0619	114.2360	114.2226	0.800	0.827	
E135.1	13825.39	3.8719	150.6000	1131.760	18	24	4.2652	29	40	0.0819	114.2226	114.2050	0.803	0.835	
L-E112-01	278.3141	5.5663	60.0000	402.3530	16	32	8.0325	16	32	1.4457	120.2525	115.8964	1.591	1.088	
L-A-1A	56.9784	1.7266	36.0000	15.4980	16	15	1.2768	16	9	0.2720	121.8386	120.3046	0.586	0.548	
L-AD-3	66.8453	2.8145	30.0000	31.6327	16	17	1.5826	16	12	0.4732	126.0496	125.6755	0.904	1.386	*

L-AD-4	50.3627	1.5261	36.0000	38.4351	16	18	1.1647	16	18	0.7632	125.6755	125.5223	1.155	1.211 *
L-AD-5	40.9834	1.2419	36.0000	43.7546	16	25	1.3259	16	25	1.0676	125.5223	125.0147	1.211	1.202 *
L-AD-5A	69.4285	2.1039	36.0000	65.8838	16	43	2.8111	16	43	0.9489	125.0147	121.7236	1.202	0.558 *
E135.7	2819.712	4.1368	121.4400	1099.162	17	6	2.9605	16	55	0.3898	116.5095	116.4016	0.959	1.026 *
L-E13505	822.7318	14.6916	48.0000	267.5257	16	36	7.2102	16	36	0.3252	114.3709	114.3610	0.968	1.715 *
L-AD-6	23.6761	1.4798	24.0000	17.9769	16	16	1.3941	16	16	0.7593	123.7771	122.9857	0.889	0.878
L-AD-2	58.5853	2.4668	30.0000	30.7927	16	18	3.1092	16	19	0.5256	122.9857	122.1664	0.702	0.467
L-A-1AB	15.0171	2.5029	24.0000	35.9940	22	22	5.9772	22	22	2.3969	125.8894	124.8202	1.950	1.460
L-A-1BB	109.9973	1.9642	48.0000	35.9640	22	53	1.7505	22	54	0.3270	124.8202	121.0989	0.730	0.375
L-A-1AE	79.9856	2.4238	36.0000	45.7722	17	41	1.9980	17	30	0.5723	131.0684	125.9918	0.793	0.997
L-A-1AF	22.7915	1.4245	24.0000	22.7371	17	17	1.4214	17	17	0.9976	136.3369	131.0684	1.168	1.189 *
L-ML-D7	22.7828	1.4239	24.0000	21.7505	17	17	1.3654	17	6	0.9547	134.9727	130.0982	0.996	1.220 *
L-ML-D6	147.0745	2.6263	48.0000	52.9254	17	34	1.7553	15	48	0.3599	130.0982	129.4869	0.610	1.724 *
L-ML-D5	160.0349	5.0011	48.0000	79.6377	16	17	2.9891	16	15	0.4976	129.4869	129.4598	1.724	1.822
L-ML-D4	104.7149	1.8699	48.0000	69.4010	16	12	1.6845	15	55	0.6628	129.4598	129.3342	1.822	2.341 *
L-ML-D3	22.7829	1.4239	24.0000	22.4875	21	59	1.4055	21	59	0.9870	129.3342	125.7382	4.682	4.769 *
L-ML-D1	32.3165	2.0198	24.0000	49.0488	21	16	3.0742	21	34	1.5178	125.7382	114.3709	4.769	1.935 *
L-A-2AD	38.4550	5.4403	36.0000	-17.5309	17	0	-3.3142	16	45	-0.4559	126.0254	125.9918	0.908	0.997
L-A-3AD	164.8066	2.9430	48.0000	35.0768	24	1	1.5778	14	49	0.2128	125.9918	125.9395	0.748	0.835
L-A-1AD	181.5907	5.6747	48.0000	35.1033	24	0	1.2522	24	2	0.1933	125.9395	125.9063	0.835	0.937
L-A-1AC	120.3306	2.1488	48.0000	35.1287	24	0	1.0280	14	16	0.2919	125.9063	125.8894	0.937	0.975
L-A4-A9	139.5036	3.1887	42.0000	5.7326	16	30	0.8236	16	18	0.0411	121.1572	121.0989	0.316	0.428
L-E112-OUT	1249.055	3.7509	108.0000	402.3055	16	33	2.8102	16	33	0.3221	115.8964	115.7162	0.604	0.604
E135.6	3238.248	3.4827	132.0000	1019.285	18	25	3.4037	27	18	0.3148	116.4016	116.3815	0.944	0.953
Link980	25.0100	7.9609	24.0000	22.4658	18	7	7.7553	18	7	0.8983	119.5194	119.1957	1.510	1.788
.5-RCP	141.9389	3.6882	84.0000	379.6821	20	31	9.7186	20	34	2.6750	116.3815	114.3610	1.498	1.224
.5-WEIR	31.7737	0.0000	36.7200	294.4005	18	25	3.5025	18	26	9.2656	116.3815	115.7768	0.798	0.600
RCP-02	12.7829	4.0689	24.0000	25.4561	27	17	7.9939	27	17	1.9914	116.4144	116.4016	4.707	5.191
E535-02-00 WEIR	Undefnd	Undefnd	Undefn	891.1024	27	17								
FREE # 1	Undefnd	Undefnd	Undefn	1131.760	18	24								
FREE # 2	Undefnd	Undefnd	Undefn	402.3055	16	33								

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| Table E14 - Natural Channel Overbank Flow Information |
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Conduit Name	Maximum Velocity Left	Maximum Velocity Center	Maximum Velocity Right	Maximum Flow Left	Maximum Flow Center	Maximum Flow Right	Maximum Area Left	Maximum Area Center	Maximum Area Right	Max. Storage Volume Left	Max. Storage Volume Center	Max. Storage Volume Right	Maximum Depth
E135.4	0.0000	2.5480	0.0000	0.0000	1072.0048	0.0000	0.0000	420.7199	0.0000	0.0000	39547.671	0.0000	8.7208
E135.3	0.0481	2.3687	0.0000	0.0279	1114.9510	0.0000	0.5796	470.6929	0.0000	136.2163	110612.84	0.0000	9.2920
E135.2	0.3176	1.9690	0.0000	92.1193	1037.3803	0.0000	290.0387	526.8451	0.0000	17692.360	32137.553	0.0000	9.9030
E135.1	0.0660	2.0151	0.0088	0.4531	1131.3065	0.0001	6.8603	561.4108	0.0134	905.5662	49179.586	0.7632	10.2592
E135.7	0.9088	1.9111	0.7810	68.5233	986.6075	44.0311	75.3990	516.2575	56.3750	29707.206	239027.21	29709.644	9.8942
E135.6	0.3191	1.7137	0.7754	5.1253	772.5008	241.6587	16.0591	450.7750	311.6728	1188.3770	33357.349	23063.790	10.4281
.5-WEIR	1.3336	4.0545	2.7320	13.5491	242.1476	38.7038	10.1599	59.7237	14.1669	640.0750	3762.5902	892.5143	2.1813

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| Table E14a - Natural Channel Encroachment Information |
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Conduit Name	Existing Conveyance Condition Left Bank	Centre Channel	Right Bank	Total	Left Station	Right Station	Encroachment Conveyance Condition Left Bank	Centre Channel	Right Bank	Total	Left Station	Right Station	% Volume Reduction Left	% Volume Reduction Right	Encroachment Data Depth Incr.	Encroachment Data Method
E135.4	0.0000	44465.7	0.0000	44465.7	4947.6	5033.0	0.0000	44465.7	0.0000	44465.7	4947.6	5033.0	0.0000	0.0000	0.0000	None
E135.3	1.2981	51883.3	0.0000	51884.6	4945.5	5035.1	1.2981	51883.3	0.0000	51884.6	4945.5	5035.1	0.0000	0.0000	0.0000	None
E135.2	5376.8	60549.5	0.0000	65926.3	4943.2	5037.4	5376.8	60549.5	0.0000	65926.3	4943.2	5037.4	0.0000	0.0000	0.0000	None
E135.1	26.456	66055.2	.006853	66081.7	4941.8	5405.8	26.456	66055.2	.006853	66081.7	4941.8	5405.8	0.0000	0.0000	0.0000	None
E135.7	4568.9	65783.1	2935.8	73287.8	4923.3	5071.6	4568.9	65783.1	2935.8	73287.8	4923.3	5071.6	0.0000	0.0000	0.0000	None
E135.6	378.16	56997.7	17830.4	75206.3	4931.5	5194.9	378.16	56997.7	17830.4	75206.3	4931.5	5194.9	0.0000	0.0000	0.0000	None
.5-WEIR	182.78	3266.6	522.12	3971.5	4951.6	5036.6	182.78	3266.6	522.12	3971.5	4951.6	5036.6	0.0000	0.0000	0.0000	None

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| Table E14b - Floodplain Mapping |
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Conduit Name	Upstream WS Elev.	Downstream WS Elev.	Channel Length	Center Station	Left Offsets Natural	Left Offsets Encroach	Left Offsets Bank	Right Offsets Natural	Right Offsets Encroach	Right Offsets Bank	Channel Widths Total	Channel Widths Encroach.
E135.4	114.3610	114.3186	94.0000	5001.5000	53.8837	53.8837	66.9000	31.4704	31.4704	43.9000	85.3541	85.3541
E135.3	114.3186	114.2360	235.0000	5001.5000	56.0268	56.0268	66.9000	33.5966	33.5966	43.9000	89.6234	89.6234
E135.2	114.2360	114.2226	61.0000	5001.5000	58.3192	58.3192	66.9000	35.8708	35.8708	43.9000	94.1900	94.1900
E135.1	114.2226	114.2050	87.6000	5001.5000	59.6699	59.6699	66.9000	404.3000	404.3000	43.9000	463.9699	463.9699
E135.7	116.5095	116.4016	463.0000	5005.2500	81.9085	81.9085	46.2800	66.3685	66.3685	32.8200	148.2769	148.2769
E135.6	116.4016	116.3815	74.0000	5000.0000	68.5361	68.5361	36.7800	194.8761	194.8761	32.1000	263.4123	263.4123
.5-WEIR	116.3815	115.7768	63.0000	5000.0000	48.3716	48.3716	18.2500	36.5626	36.5626	22.4900	84.9342	84.9342

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| Table E15 - SPREADSHEET INFO LIST |
| Conduit Flow and Junction Depth Information for use in |
| spreadsheets. The maximum values in this table are the |
| true maximum values because they sample every time step. |
| The values in the review results may only be the |
| maximum of a subset of all the time steps in the run. |
| Note: These flows are only the flows in a single barrel. |
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Conduit Name	Maximum Flow (cfs)	Total Flow (ft^3)	Maximum Velocity (ft/s)	Maximum Volume (ft^3)	##	Junction Name	Invert Elevation (ft)	Maximum Elevation (ft)
L-B1	14.0264	68487.3086	7.1674	701.5377	##	MH-A-2	116.1600	124.5032
L-B2	27.6048	136488.2762	4.4137	2266.7713	##	MH-A-7	113.0200	120.9632
L-C1	2.0776	9094.0326	3.0736	144.2803	##	MH-A-5	112.8600	120.8805
L-C2	2.6884	14209.7411	2.1293	611.3228	##	A-10	112.5900	120.6743
L-C3	4.9095	25720.6735	2.8164	98.8021	##	MH-A-4	112.6800	120.7384

L-C4	7.1530	37746.1280	4.3191	605.6973	##	A-14	114.2600	121.9022
L-C5	10.7620	57409.1942	5.9247	478.5731	##	A-13	114.3300	121.6906
L-C6	10.7339	57378.5720	7.7832	242.1880	##	A-15	116.8800	122.4863
L-D1	3.8629	17753.7433	3.7238	365.6842	##	A11	109.7600	115.7422
L-D2	6.9703	35111.4489	4.0492	322.5214	##	A10	111.4500	115.7611
L-D3	8.3818	43334.2466	6.0872	289.8198	##	A12	108.0200	115.1500
L-D4	10.5584	55875.1146	10.9848	155.5477	##	A14	105.4900	114.2425
L-E1	1.5868	8003.7326	3.1383	299.1737	##	A15	104.6300	114.2401
L-E2	3.5917	18451.7311	3.2795	609.2802	##	A-12	117.8200	121.7459
L-E4	2.7702	12962.4000	4.4162	159.7339	##	MH-A-3	112.5100	120.6041
L-E3	9.5072	48390.2121	9.0034	152.6649	##	A13	107.3300	114.6050
L-F1	3.2952	16339.0480	3.0035	191.5115	##	A-3	120.3700	126.8840
L-F2	4.9012	25686.7342	4.1772	180.9694	##	A-2	119.4300	126.3310
L-F3	7.6998	41989.4459	4.1742	322.2812	##	A-6	117.7600	125.6201
L-F4	8.8475	48466.8544	4.2886	665.5583	##	A-5	118.1600	125.5815
L-F5	10.2051	56530.1822	4.0850	503.9261	##	A-8	113.9800	121.4248
L-F7	4.6085	24466.5536	4.9696	287.2798	##	A-9	113.6900	121.0989
L-F6	15.9719	86922.0722	4.7940	238.9255	##	MH-A-10	114.0200	121.7421
L-A1	1.6887	6965.5189	2.4479	64.9131	##	A-1A	118.6600	120.3046
L-A2	2.6520	13118.7747	3.5156	71.3857	##	A-2A	118.3000	120.0350
L-A3	3.6664	19423.3017	3.1179	205.1175	##	A-5A	116.9000	119.8596
L-A4	5.1531	27684.7628	3.9166	246.8369	##	A-8A	116.7000	119.7219
L-A5	5.8326	31523.9343	4.4922	215.7757	##	B-10A	115.7000	119.5429
L-A6	7.3276	38976.8812	3.7234	563.9472	##	B-11A	115.6200	119.1957
L-A7	8.9589	49300.9276	4.1470	504.3024	##	B-13A	114.7000	118.8386
L-A8	10.1179	55223.0977	4.6509	982.6047	##	B-14A	114.3400	118.4815
L-A9	11.6235	67214.2364	5.4971	615.0436	##	B-16A	113.9300	117.6986
L-A10	13.1877	76783.6651	7.1343	352.0713	##	B-18A	113.1200	115.3189
L-A11	50.2403	272801.3807	3.9127	12834.0798	##	E135-04	105.4200	114.3186
L-A12	93.6605	506457.9061	3.7383	17665.0974	##	D-2A	113.0500	114.3190
L-A13	118.9125	636199.8665	4.7458	15041.2879	##	D-3A	113.2200	114.3223
L-A14	138.6263	737013.1665	3.8431	36649.9274	##	D-4A	113.7000	114.4603
L-A15	181.0042	961690.1471	5.0182	24250.5315	##	C1	113.6200	115.4299
L-G1	3.3127	17168.2649	3.4251	129.6490	##	C2	112.8700	115.4129
L-G2	3.3019	17066.3708	3.5386	281.5808	##	C3	112.2800	115.3908
L-M1	12.0800	59522.5643	5.1530	105.3890	##	C4	112.2500	115.3802
L-L1	-2.6003	4638.0079	1.6399	175.4618	##	C5	111.1700	115.2373
L-L2	-4.1984	10922.0450	3.0138	172.1209	##	C6	110.8700	115.1802
L-L3	15.9116	83039.8887	4.4858	488.8650	##	D1	113.7200	115.0952
L-L4	17.0189	90059.6101	4.8232	1035.6327	##	D2	112.5900	114.8824
L-L5	17.9449	96200.4667	3.9292	741.0165	##	D3	112.2700	114.8022
L-L6	19.1503	103045.2614	3.6616	666.9148	##	D4	111.9900	114.6966
L-L7	20.3863	110230.5579	3.2585	763.2470	##	E1	113.2200	114.2471
L-L8	22.9675	124865.5696	3.2365	481.6607	##	E2	111.9800	114.2452
L-L9	25.4245	138909.4885	3.5814	1422.8176	##	E3	111.7200	114.2434
L-A-5	45.4994	64638.9306	9.0529	1023.4706	##	E4	112.4200	114.2444
L-A-9	48.3487	3976166.438	5.1550	1198.7996	##	F1	111.5200	114.2437
L-A-15	11.0549	49801.2468	6.1891	718.5741	##	F2	111.0600	114.2433
L-A-14	19.3334	102641.8045	2.7224	1141.1654	##	F3	110.1400	114.2425
L-A-12	17.1726	64095.4970	9.6220	124.6661	##	F4	109.7200	114.2420
L-A-13	42.1244	200881.9129	5.9151	1504.2634	##	F5	108.3600	114.2406
L-MH-A-10	50.1657	303640.3483	3.9786	5203.5823	##	F6	107.9600	114.2404
L-MH-A-9	51.1299	303967.1851	4.0528	7563.9288	##	F7	110.3200	114.2416
L-A-10	68.0416	428424.3974	5.3901	671.8549	##	L9	107.6200	114.2241
L-A-3	21.0391	84405.2168	6.6354	717.7324	##	L8	107.8300	114.2245
L-A-2	28.8624	149973.3976	5.8262	1713.1569	##	L7	108.1600	114.2250
L-A-6	62.5972	398506.6181	6.4636	7998.6280	##	L6	108.4600	114.2253
L-MH-A-2	60.5043	398371.3169	6.2600	10844.3686	##	L5	108.7900	114.2256
L-A-8	70.0658	512665.6496	7.2366	1331.3596	##	L4	109.9200	114.2819
L-A-4	190.1491	2197878.131	4.2161	5867.2180	##	L3	110.2200	114.3668
L-MH-A-7	235.0440	6172991.822	5.2090	3610.8736	##	M1	110.8000	114.4267
L-MH-A-5	296.7307	6685015.646	6.5752	3972.0839	##	L2	111.5200	114.6918
L-MH-A-4	296.7767	6684219.441	6.5763	3837.1467	##	L1	111.8200	114.8723
L-MH-A-3	351.9499	7112129.586	7.7960	1363.0320	##	E135-03	104.4800	114.2360

L-A-7	402.9072	7535564.139	8.9275	3495.5280	##	G1	110.6400	114.2234
L-A-2A	23.3552	190857.1197	2.0260	1181.0255	##	G2	110.4100	114.2232
L-A-5A	23.0972	191294.8793	1.2801	9718.3905	##	E135-02	104.1400	114.2226
L-A-8A	31.4703	261979.7659	1.3257	19484.4208	##	A-4	113.2800	121.1572
L-B-10A	25.5883	262015.4204	0.9469	26565.0000	##	A-7	112.4600	120.5158
L-B-11A	37.4083	380203.4272	1.1338	23034.0000	##	E112-01	112.3000	120.2537
L-B-13A	57.3228	574141.7403	1.8941	9933.0000	##	MH-A-9	113.4400	121.2965
L-B-14A	57.2807	574293.4746	1.7359	9933.0000	##	A1	115.9200	116.4728
L-B-16A	64.3783	651697.8894	1.9510	17160.0000	##	A2	115.6200	116.3220
L-B-18A	72.2695	732197.2944	2.8413	16733.5731	##	A3	114.8200	116.0503
L-D-3A	2.7379	30535.3081	0.8039	1426.7712	##	A4	114.5200	116.0283
L-D-2A	2.7338	30494.4891	0.8358	1318.7640	##	A5	114.2200	115.9992
L-E13504.1	11.4338	90424.5818	2.1061	4388.9063	##	A6	113.4800	115.9679
L-E13504	91.2809	807518.4416	3.6547	12973.3928	##	A7	113.1200	115.9384
E135.4	1072.0048	39343726.12	4.4762	39547.6710	##	A8	112.8200	115.8958
E135.3	1114.9789	40445847.65	4.4423	110749.0538	##	A9	111.7200	115.7867
E135.2	1129.4996	41454877.45	4.0543	49829.9136	##	B2	111.2400	116.2318
E135.1	1131.7597	41609363.01	4.2652	50085.9153	##	B1	114.4900	117.0690
L-E112-01	402.3530	7526978.874	8.0325	77245.0322	##	E135-05	105.7900	114.3610
L-A-1A	15.4980	131362.1438	1.2768	14521.8910	##	E135-01	103.7300	114.2050
L-AD-3	31.6327	179268.8782	1.5826	9272.7429	##	E112-00	110.4568	115.8964
L-AD-4	38.4351	244115.8125	1.1647	11451.0000	##	A-1AA	120.0800	121.8386
L-AD-5	43.7546	312356.4178	1.3259	25938.0000	##	AD-3	123.7900	126.0496
L-AD-5A	65.8838	541115.1332	2.8111	16668.6535	##	AD-4	122.2100	125.6755
E135.7	1099.1619	35100316.97	2.9605	298444.0568	##	AD-5	121.8900	125.5223
L-E13505	267.5257	4237277.815	7.2102	2796.1513	##	AD-5A	121.4100	125.0147
L-AD-6	17.9769	135597.6180	1.3941	9187.7225	##	AD-6	122.0000	123.7771
L-AD-2	30.7927	222663.0473	3.1092	940.6589	##	AD-2	121.2300	122.9857
L-A-1AB	35.9940	3962786.517	5.9772	573.6297	##	A-1AB	121.9900	125.8894
L-A-1BB	35.9640	3887703.738	1.7505	31103.8425	##	E135-08	106.8000	116.5095
L-A-1AE	45.7722	1170728.094	1.9980	35570.9375	##	ML-D1	110.5000	114.3709
L-A-1AF	22.7371	439911.9761	1.4214	38026.1396	##	A-1BB	121.9000	124.8202
L-ML-D7	21.7505	698089.4485	1.3654	38838.5518	##	A-3AD	123.0000	125.9918
L-ML-D6	52.9254	1756383.566	1.7553	165703.8594	##	A-1AE	128.6900	131.0684
L-ML-D5	79.6377	2353172.389	2.9891	10346.3721	##	A-1AF	134.0000	136.3369
L-ML-D4	69.4010	2224486.060	1.6845	165480.0000	##	ML-D8	132.9800	134.9727
L-ML-D3	22.4875	2106919.092	1.4055	60336.0000	##	ML-D7	127.6590	130.0982
L-ML-D1	49.0488	3956562.854	3.0742	30782.4061	##	ML-D6	122.5900	129.4869
L-A-2AD	-17.5309	2150890.910	-3.3142	1868.3994	##	ML-D5	122.1700	129.4598
L-A-3AD	35.0768	3636195.665	1.5778	7904.1728	##	ML-D4	119.9710	129.3342
L-A-1AD	35.1033	3628535.326	1.2522	7421.8372	##	ML-D3	116.2000	125.7382
L-A-1AC	35.1287	3620260.428	1.0280	8908.2922	##	A-2AD	123.3000	126.0254
L-A4-A9	5.7326	10854.3710	0.8236	1041.9053	##	A-1AD	122.6000	125.9395
L-E112-OUT	402.3055	7512905.188	2.8102	21473.8056	##	A-1AC	122.1600	125.9063
E135.6	1019.2847	35107648.75	3.4037	57609.5157	##	E112-OUT	110.2768	115.7162
Link980	22.4658	134742.9599	7.7553	235.5164	##	E135-07	106.0206	116.4016
.5-RCP	379.6821	32941945.20	9.7186	4941.0544	##	E135-06	105.8960	116.3815
.5-WEIR	294.4005	2165428.640	3.5025	5295.1796	##	E535-02	107.0000	116.4144
RCP-02	25.4561	1297769.787	7.9939	292.1326	##	B-12A	116.5000	119.5194
E535-02-00 WEIR	891.1024	-1301506.19	0.0000	0.0000	##			
FREE # 1	1131.7597	41609626.48	0.0000	0.0000	##			
FREE # 2	402.3055	7512935.410	0.0000	0.0000	##			

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| Table E15a - SPREADSHEET REACH LIST |
| Peak flow and Total Flow listed by Reach or those |
| conduits or diversions having the same |
| upstream and downstream nodes. |
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Upstream Node	Downstream Node	Maximum Flow (cfs)	Total Flow (ft^3)
B1	B2	14.0264	68487.3086
B2	A11	27.6048	136488.276
C1	C2	2.0776	9094.0326
C2	C3	2.6884	14209.7411
C3	C4	4.9095	25720.6735
C4	C5	7.1530	37746.1280

C5	C6	10.7620	57409.1942
C6	A12	10.7339	57378.5720
D1	D2	3.8629	17753.7433
D2	D3	6.9703	35111.4489
D3	D4	8.3818	43334.2466
D4	A13	10.5584	55875.1146
E1	E2	1.5868	8003.7326
E2	E3	3.5917	18451.7311
E4	E3	2.7702	12962.4000
E3	A14	9.5072	48390.2121
F1	F2	3.2952	16339.0480
F2	F3	4.9012	25686.7342
F3	F4	7.6998	41989.4459
F4	F5	8.8475	48466.8544
F5	F6	10.2051	56530.1822
F7	F6	4.6085	24466.5536
F6	A15	15.9719	86922.0722
A1	A2	1.6887	6965.5189
A2	A3	2.6520	13118.7747
A3	A4	3.6664	19423.3017
A4	A5	5.1531	27684.7628
A5	A6	5.8326	31523.9343
A6	A7	7.3276	38976.8812
A7	A8	8.9589	49300.9276
A8	A9	10.1179	55223.0977
A9	A10	11.6235	67214.2364
A10	A11	13.1877	76783.6651
A11	A12	50.2403	272801.381
A12	A13	93.6605	506457.906
A13	A14	118.9125	636199.866
A14	A15	138.6263	737013.167
A15	E135-03	181.0042	961690.147
G1	G2	3.3127	17168.2649
G2	E135-02	3.3019	17066.3708
M1	L3	12.0800	59522.5643
L1	L2	-2.6003	4638.0079
L2	L3	-4.1984	10922.0450
L3	L4	15.9116	83039.8887
L4	L5	17.0189	90059.6101
L5	L6	17.9449	96200.4667
L6	L7	19.1503	103045.261
L7	L8	20.3863	110230.558
L8	L9	22.9675	124865.570
L9	E135-02	25.4245	138909.489
A-5	A-6	45.4994	64638.9306
A-9	MH-A-7	48.3487	3976166.44
A-15	A-14	11.0549	49801.2468
A-14	MH-A-10	19.3334	102641.804
A-12	A-13	34.3452	64095.4970
A-13	MH-A-10	42.1244	200881.913
MH-A-10	MH-A-9	50.1657	303640.348
MH-A-9	A-10	51.1299	303967.185
A-10	MH-A-3	68.0416	428424.397
A-3	A-2	21.0391	84405.2168
A-2	A-6	28.8624	149973.398
A-6	MH-A-2	62.5972	398506.618
MH-A-2	A-8	60.5043	398371.317
A-8	MH-A-5	70.0658	512665.650
A-4	MH-A-7	190.1491	2197878.13
MH-A-7	MH-A-5	235.0440	6172991.82
MH-A-5	MH-A-4	296.7307	6685015.65
MH-A-4	MH-A-3	296.7767	6684219.44
MH-A-3	A-7	351.9499	7112129.59
A-7	E112-01	402.9072	7535564.14

A-1A	A-2A	23.3552	190857.120
A-2A	A-5A	23.0972	191294.879
A-5A	A-8A	31.4703	261979.766
A-8A	B-10A	25.5883	262015.420
B-10A	B-11A	37.4083	380203.427
B-11A	B-13A	57.3228	574141.740
B-13A	B-14A	57.2807	574293.475
B-14A	B-16A	64.3783	651697.889
B-16A	B-18A	72.2695	732197.294
D-4A	D-3A	2.7379	30535.3081
D-3A	D-2A	2.7338	30494.4891
D-2A	E135-04	11.4338	90424.5818
B-18A	E135-04	91.2809	807518.442
E135-05	E135-04	1072.0048	39343726.1
E135-04	E135-03	1114.9789	40445847.7
E135-03	E135-02	1129.4996	41454877.5
E135-02	E135-01	1131.7597	41609363.0
E112-01	E112-00	402.3530	7526978.87
A-1AA	A-1A	15.4980	131362.144
AD-3	AD-4	31.6327	179268.878
AD-4	AD-5	38.4351	244115.813
AD-5	AD-5A	43.7546	312356.418
AD-5A	A-4	65.8838	541115.133
E135-08	E135-07	1099.1619	35100317.0
ML-D1	E135-05	267.5257	4237277.81
AD-6	AD-2	17.9769	135597.618
AD-2	A-7	30.7927	222663.047
A-1AB	A-1BB	35.9940	3962786.52
A-1BB	A-9	35.9640	3887703.74
A-1AE	A-3AD	45.7722	1170728.09
A-1AF	A-1AE	22.7371	439911.976
ML-D8	ML-D7	21.7505	698089.449
ML-D7	ML-D6	52.9254	1756383.57
ML-D6	ML-D5	79.6377	2353172.39
ML-D5	ML-D4	69.4010	2224486.06
ML-D4	ML-D3	22.4875	2106919.09
ML-D3	ML-D1	49.0488	3956562.85
A-2AD	A-3AD	-52.5928	2150890.91
A-3AD	A-1AD	35.0768	3636195.67
A-1AD	A-1AC	35.1033	3628535.33
A-1AC	A-1AB	35.1287	3620260.43
A-4	A-9	5.7326	10854.3710
E112-00	E112-OUT	402.3055	7512905.19
E135-07	E135-06	1019.2847	35107648.7
B-12A	B-11A	22.4658	134742.960
E135-06	E135-05	1019.2900	35107373.8
E535-02	E135-07	25.4561	1297769.79
E535-02	E135-07	891.1024	-1301506.2

Table E19 - Junction Inflow & Outflow Listing
Units are either ft^3 or m^3 depending on the units in your model.

Junction Name	Constant Inflow to Node	User Inflow to Node	Interface Inflow to Node	DWF Inlow to Node	Inflow through Outfall	RNF Layer Inflow to Node	Outflow from Node	Evaporation from Node	Inflow from 2D Layer
A-10	0.0000	124884.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
A-14	0.0000	52632.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
A-13	0.0000	127701.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
A-15	0.0000	50148.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
A11	0.0000	61524.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
A10	0.0000	9585.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
A12	0.0000	174870.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
A14	0.0000	55224.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
A15	0.0000	146529.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
A-12	0.0000	60898.5050	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	

A13	0.0000	73521.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
A-3	0.0000	83502.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
A-2	0.0000	61380.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
A-6	0.0000	176616.0100	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
A-5	0.0000	62244.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
A-8	0.0000	113904.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
A-9	0.0000	80356.5150	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
A-1A	0.0000	59944.5050	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
A-5A	0.0000	70123.5050	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
B-10A	0.0000	118345.5050	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
B-11A	0.0000	59517.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
B-14A	0.0000	76536.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
B-16A	0.0000	80181.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
B-18A	0.0000	72639.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
E135-04	0.0000	207598.5050	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
D-2A	0.0000	59616.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
D-4A	0.0000	30501.0100	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
C1	0.0000	9108.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
C2	0.0000	5058.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
C3	0.0000	11493.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
C4	0.0000	12177.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
C5	0.0000	19512.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
D1	0.0000	17865.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
D2	0.0000	17271.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
D3	0.0000	8199.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
D4	0.0000	12555.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
E1	0.0000	8046.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
E2	0.0000	10431.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
E3	0.0000	16983.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
E4	0.0000	12960.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
F1	0.0000	16344.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
F2	0.0000	9405.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
F3	0.0000	16254.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
F4	0.0000	6624.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
F5	0.0000	7875.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
F6	0.0000	5895.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
F7	0.0000	24525.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
L9	0.0000	14004.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
L8	0.0000	14625.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
L7	0.0000	7182.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
L6	0.0000	6849.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
L5	0.0000	5940.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
L4	0.0000	7353.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
L3	0.0000	12573.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
M1	0.0000	59562.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
L2	0.0000	6264.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
L1	0.0000	4608.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
E135-03	0.0000	53505.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
G1	0.0000	17172.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
A-4	0.0000	1.6680E+06	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
A-7	0.0000	201289.5250	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
A1	0.0000	6966.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
A2	0.0000	6156.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
A3	0.0000	6300.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
A4	0.0000	8262.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
A5	0.0000	3861.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
A6	0.0000	7407.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
A7	0.0000	10278.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
A8	0.0000	6075.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
A9	0.0000	11718.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
B2	0.0000	68301.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
B1	0.0000	68661.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
E135-01	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	41.6096E+06	0.0000
A-1AA	0.0000	130864.5150	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

AD-3	0.0000	178965.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
AD-4	0.0000	64395.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
AD-5	0.0000	67248.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
AD-5A	0.0000	228244.5250	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
AD-6	0.0000	135297.0100	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
AD-2	0.0000	87259.5050	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
A-1AB	0.0000	347265.2900	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
E135-08	0.0000	35.0984E+06	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
ML-D1	0.0000	287451.4800	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
A-3AD	0.0000	365949.3200	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
A-1AE	0.0000	741205.5900	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
A-1AF	0.0000	442084.9250	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
ML-D8	0.0000	700358.9350	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
ML-D7	0.0000	1.0728E+06	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
ML-D6	0.0000	738184.9350	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
ML-D4	0.0000	322330.5750	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
ML-D3	0.0000	3.7790E+06	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
A-2AD	0.0000	4.5286E+06	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
E112-OUT	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	7.5129E+06	0.0000
E535-02	0.0000	315517.5050	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
B-12A	0.0000	128808.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Table E20 - Junction Flooding and Volume Listing. The maximum volume is the total volume in the node including the volume in the flooded storage area. This is the max volume at any time. The volume in the flooded storage area is the total volume above the ground elevation, where the flooded pond storage area starts. The fourth column is instantaneous, the fifth is the sum of the flooded volume over the entire simulation. Units are either ft^3 or m^3 depending on the units.

Junction Name	Surcharged Time (min)	Flooded Time(min)	Out of 1D-System (Flooded Volume)	Maximum Volume	Passed to 2D cell OR Volume Stored in allowed Flood Pond of 1D-System
MH-A-2	91.4500	0.1250	0.0000	129.3935	0.9986
MH-A-7	88.1500	0.0000	0.0000	99.8149	0.0000
MH-A-5	90.2333	0.0000	0.0000	100.7857	0.0000
A-10	117.8833	0.0000	0.0000	101.6018	0.0000
MH-A-4	91.8667	0.0000	0.0000	101.1752	0.0000
A-14	105.3667	0.0000	0.0000	95.9971	0.0000
A-13	105.3667	67.4000	0.0000	5058.7593	6065.5709
A-15	98.0000	89.6917	0.0000	8464.6282	9830.1164
A11	167.2000	0.0000	0.0000	75.1721	0.0000
A10	39.4667	0.0000	0.0000	54.1727	0.0000
A12	299.9833	0.0000	0.0000	89.5954	0.0000
A14	393.4833	0.0000	0.0000	109.9842	0.0000
A15	439.0667	334.5250	0.0000	20878.4547	60150.8087
A-12	76.9500	71.9917	0.0000	5581.6228	7216.5858
MH-A-3	93.7417	0.0000	0.0000	101.4578	0.0000
A13	353.2833	0.0000	0.0000	91.4183	0.0000
A-3	86.6750	81.6250	0.0000	7173.0461	7796.9538
A-2	87.0250	61.9750	0.0000	2044.4395	2482.3161
A-6	88.0667	36.2417	0.0000	887.2072	623.1906
A-5	92.8333	86.7583	0.0000	19385.7170	20445.7804
A-8	89.5000	0.0000	0.0000	93.5509	0.0000
A-9	0.0000	0.0000	0.0000	93.1001	0.0000
MH-A-10	91.5000	0.0000	0.0000	97.0556	0.0000
A-1A	0.0000	0.0000	0.0000	20.6655	0.0000
A-2A	0.0000	0.0000	0.0000	21.8016	0.0000
A-5A	0.0000	0.0000	0.0000	37.1907	0.0000
A-8A	15.4417	0.0000	0.0000	37.9728	0.0000
B-10A	97.9000	0.0000	0.0000	48.2905	0.0000
B-11A	80.5000	0.0000	0.0000	44.9323	0.0000
B-13A	115.3667	0.0000	0.0000	52.0059	0.0000
B-14A	122.2500	0.0000	0.0000	52.0421	0.0000
B-16A	115.5333	0.0000	0.0000	47.3565	0.0000
B-18A	0.0000	0.0000	0.0000	27.6312	0.0000

E135-04	0.0000	0.0000	0.0000	111.8194	0.0000
D-2A	0.0000	0.0000	0.0000	15.9466	0.0000
D-3A	0.0000	0.0000	0.0000	13.8521	0.0000
D-4A	0.0000	0.0000	0.0000	9.5543	0.0000
C1	14.5667	0.0000	0.0000	22.7436	0.0000
C2	22.6500	0.0000	0.0000	31.9540	0.0000
C3	38.0500	0.0000	0.0000	39.0909	0.0000
C4	39.1500	0.0000	0.0000	39.3344	0.0000
C5	179.1667	0.0000	0.0000	51.1098	0.0000
C6	246.2750	0.0000	0.0000	54.1617	0.0000
D1	0.0000	0.0000	0.0000	17.2812	0.0000
D2	17.4000	0.0000	0.0000	28.8064	0.0000
D3	27.4667	0.0000	0.0000	31.8196	0.0000
D4	106.7000	0.0000	0.0000	34.0115	0.0000
E1	0.0000	0.0000	0.0000	12.9067	0.0000
E2	75.5500	0.0000	0.0000	28.4643	0.0000
E3	140.4333	0.0000	0.0000	31.7093	0.0000
E4	98.2667	0.0000	0.0000	22.9255	0.0000
F1	302.7667	0.0000	0.0000	34.2259	0.0000
F2	337.6083	0.0000	0.0000	40.0018	0.0000
F3	359.2833	0.0000	0.0000	51.5518	0.0000
F4	380.8333	0.0000	0.0000	56.8231	0.0000
F5	424.4000	0.0000	0.0000	73.8953	0.0000
F6	454.3667	0.0000	0.0000	78.9192	0.0112
F7	375.8083	0.0000	0.0000	49.2785	0.0000
L9	435.9333	0.0000	0.0000	82.9874	0.0000
L8	423.0500	0.0000	0.0000	80.3538	0.0000
L7	404.8500	0.0000	0.0000	76.2129	0.0000
L6	389.9500	0.0000	0.0000	72.4468	0.0000
L5	373.5000	0.0000	0.0000	68.3041	0.0000
L4	338.2500	0.0000	0.0000	54.8115	0.0000
L3	305.7500	0.0000	0.0000	52.1077	0.0000
M1	301.3167	0.0000	0.0000	45.5509	0.0000
L2	271.6917	0.0000	0.0000	39.8569	0.0000
L1	232.2083	0.0000	0.0000	38.3491	0.0000
E135-03	0.0000	0.0000	0.0000	122.5936	0.0000
G1	351.3833	0.0000	0.0000	45.0285	0.0000
G2	362.3167	0.0000	0.0000	47.9165	0.0000
E135-02	0.0000	0.0000	0.0000	126.6984	0.0000
A-4	0.0000	0.0000	0.0000	98.9848	0.0000
A-7	0.0000	0.0000	0.0000	101.2297	0.0000
E112-01	95.1167	0.0000	0.0000	99.9461	0.0000
MH-A-9	97.3083	0.0000	0.0000	98.7375	0.0000
A1	0.0000	0.0000	0.0000	6.9463	0.0000
A2	0.0000	0.0000	0.0000	8.8220	0.0000
A3	0.0000	0.0000	0.0000	15.4601	0.0000
A4	0.0000	0.0000	0.0000	18.9533	0.0000
A5	0.0000	0.0000	0.0000	22.3580	0.0000
A6	0.0000	0.0000	0.0000	31.2628	0.0000
A7	11.3500	0.0000	0.0000	35.4155	0.0000
A8	20.3667	0.0000	0.0000	38.6504	0.0000
A9	34.0000	0.0000	0.0000	51.1017	0.0000
B2	57.5667	5.3667	0.0000	121.6950	57.3307
B1	14.9500	0.0000	0.0000	32.4075	0.0000
E135-05	0.0000	0.0000	0.0000	107.7037	0.0000
E135-01	0.0000	0.0000	0.0000	131.6289	0.0000
E112-00	0.0000	0.0000	0.0000	68.3540	0.0000
A-1AA	0.0000	0.0000	0.0000	22.0992	0.0000
AD-3	0.0000	0.0000	0.0000	28.3938	0.0000
AD-4	54.1667	0.0000	0.0000	43.5475	0.0000
AD-5	67.6083	28.6500	0.0000	694.5289	2527.5726
AD-5A	72.5667	0.0000	0.0000	45.2964	0.0000
AD-6	0.0000	0.0000	0.0000	22.3311	0.0000
AD-2	0.0000	0.0000	0.0000	22.0621	0.0000

A-1AB	0.0000	0.0000	0.0000	48.9992	0.0000	
E135-08	0.0000	0.0000	0.0000	122.0091	0.0000	
ML-D1	0.0000	0.0000	0.0000	48.6416	0.0000	
A-1BB	0.0000	0.0000	0.0000	36.6947	0.0000	
A-3AD	0.0000	0.0000	0.0000	37.5945	0.0000	
A-1AE	0.0000	0.0000	0.0000	29.8873	0.0000	
A-1AF	115.7000	0.0000	0.0000	29.3661	0.0000	
ML-D8	0.0000	0.0000	0.0000	25.0396	0.0000	
ML-D7	0.0000	0.0000	0.0000	30.6504	0.0000	
ML-D6	1875.0667	896.0333	0.0000	8488.1270	62568.0375	
ML-D5	1882.7333	886.7500	0.0000	8134.9018	53310.7040	
ML-D4	1909.0167	1886.0833	0.0000	224061.0673	555692.9315	
ML-D3	2002.4167	1969.9500	0.0000	1385872.733	1.9213E+06	
A-2AD	0.0000	0.0000	0.0000	2614842.955	0.0000	
A-1AD	0.0000	0.0000	0.0000	41.9646	0.0000	
A-1AC	0.0000	0.0000	0.0000	47.0757	0.0000	
E112-OUT	0.0000	0.0000	0.0000	68.3511	0.0000	
E135-07	0.0000	0.0000	0.0000	130.4481	0.0000	
E135-06	0.0000	0.0000	0.0000	131.7614	0.0000	
E535-02	1791.8833	0.0000	0.0000	2546952.500	0.0000	
B-12A	120.9417	120.9417	0.0000	8883.3948	10824.3266	

==================================
| Simulation Specific Information |
==================================

Number of Input Conduits.....	118	Number of Simulated Conduits.....	121
Number of Natural Channels.....	7	Number of Junctions.....	118
Number of Storage Junctions.....	2	Number of Weirs.....	1
Number of Orifices.....	0	Number of Pumps.....	0
Number of Free Outfalls.....	2	Number of Tide Gate Outfalls.....	0

==
| Average % Change in Junction or Conduit is defined as: |
| Conduit % Change ==> 100.0 (Q(n+1) - Q(n)) / Qfull |
| Junction % Change ==> 100.0 (Y(n+1) - Y(n)) / Yfull |
==

The Conduit with the largest average change was..E135.4 with 19.825 percent
The Junction with the largest average change was.A-6 with 0.061 percent
The Conduit with the largest sinuosity was.....L-A-5 with 64.110

==
| Table E21. Continuity balance at the end of the simulation |
| Junction Inflow, Outflow or Street Flooding |
| Error = Inflow + Initial Volume - Outflow - Final   Volume |
==

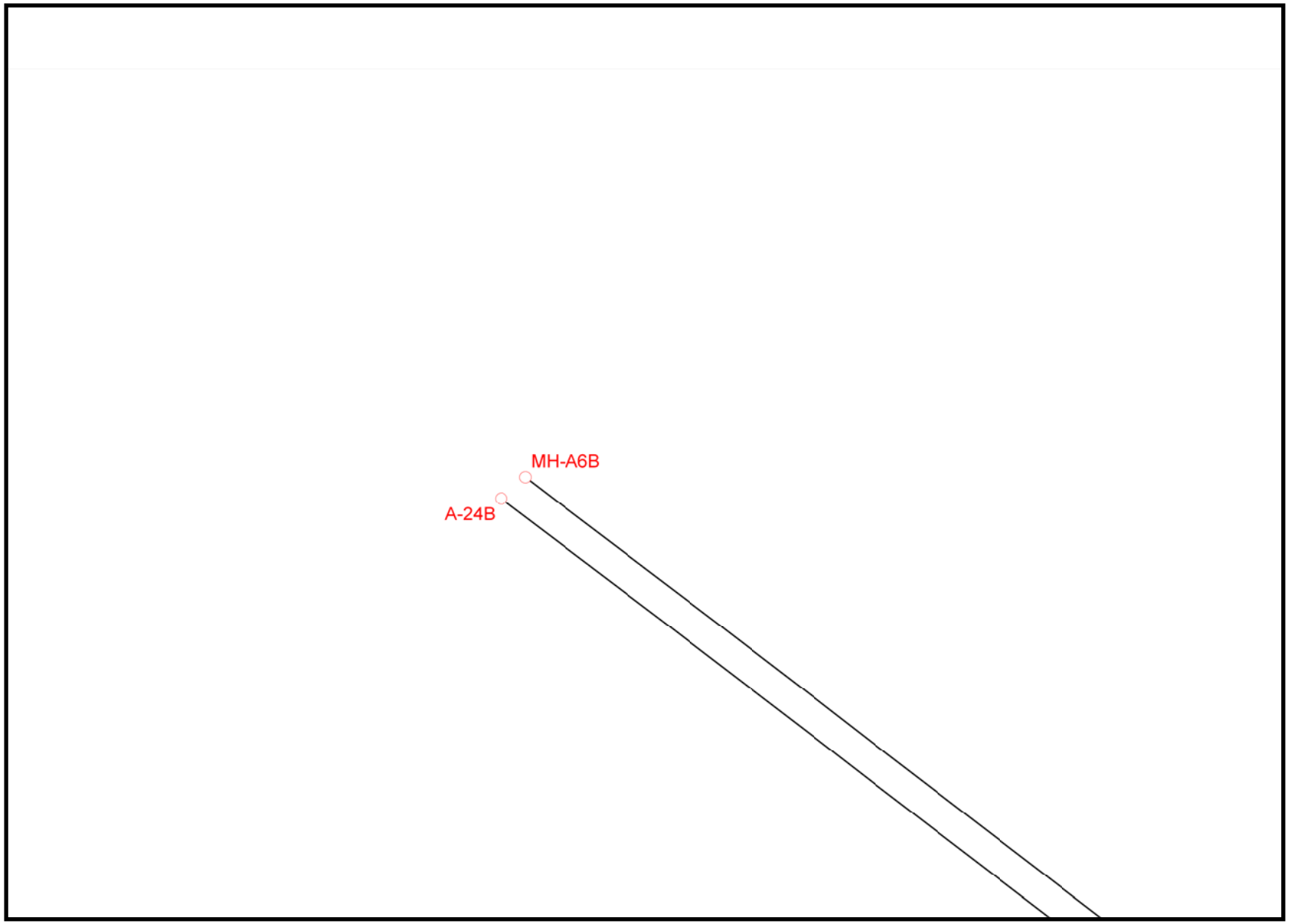
Inflow Junction	Inflow Volume,ft^3	Average Inflow, cfs
A-10	124884.7223	0.7227
A-14	52632.2892	0.3046
A-13	127701.7813	0.7390
A-15	50148.3016	0.2902
A11	61524.3105	0.3560
A10	9585.0486	0.0555
A12	174871.1371	1.0120
A14	55224.3424	0.3196
A15	146529.9145	0.8480
A-12	60898.8419	0.3524
A13	73521.4478	0.4255
A-3	83502.5406	0.4832
A-2	61380.3869	0.3552
A-6	176616.9959	1.0221
A-5	62244.3229	0.3602
A-8	113904.6780	0.6592
A-9	80356.8230	0.4650
A-1A	59944.7805	0.3469
A-5A	70123.8906	0.4058
B-10A	118346.1665	0.6849
B-11A	59517.3159	0.3444
B-14A	76536.4128	0.4429
B-16A	80181.4342	0.4640
B-18A	72639.3342	0.4204
E135-04	207599.6472	1.2014
D-2A	59616.2753	0.3450
D-4A	30501.0965	0.1765

C1	9108.0467	0.0527
C2	5058.0251	0.0293
C3	11493.0585	0.0665
C4	12177.0613	0.0705
C5	19512.1117	0.1129
D1	17865.0998	0.1034
D2	17271.0881	0.0999
D3	8199.0420	0.0474
D4	12555.0633	0.0727
E1	8046.0401	0.0466
E2	10431.0535	0.0604
E3	16983.0856	0.0983
E4	12960.0736	0.0750
F1	16344.1005	0.0946
F2	9405.0470	0.0544
F3	16254.0850	0.0941
F4	6624.0337	0.0383
F5	7875.0413	0.0456
F6	5895.0304	0.0341
F7	24525.1265	0.1419
L9	14004.0721	0.0810
L8	14625.0769	0.0846
L7	7182.0380	0.0416
L6	6849.0358	0.0396
L5	5940.0289	0.0344
L4	7353.0337	0.0426
L3	12573.0570	0.0728
M1	59562.3648	0.3447
L2	6264.0289	0.0363
L1	4608.0226	0.0267
E135-03	53505.3276	0.3096
G1	17172.0853	0.0994
A-4	1.66800E+06	9.6528
A-7	201290.4502	1.1649
A1	6966.0348	0.0403
A2	6156.0290	0.0356
A3	6300.0284	0.0365
A4	8262.0420	0.0478
A5	3861.0199	0.0223
A6	7407.0401	0.0429
A7	10278.0543	0.0595
A8	6075.0312	0.0352
A9	11718.0590	0.0678
B2	68301.4218	0.3953
B1	68661.4171	0.3973
A-1AA	130865.0256	0.7573
AD-3	178966.1743	1.0357
AD-4	64395.3373	0.3727
AD-5	67248.3578	0.3892
AD-5A	228245.5755	1.3209
AD-6	135297.6340	0.7830
AD-2	87259.9888	0.5050
A-1AB	347266.0659	2.0096
E135-08	35.09838E+06	203.1156
ML-D1	287451.7031	1.6635
A-3AD	365950.1037	2.1178
A-1AE	741205.6755	4.2894
A-1AF	442085.7549	2.5584
ML-D8	700359.2024	4.0530
ML-D7	1.07280E+06	6.2083
ML-D6	738187.0936	4.2719
ML-D4	322332.2167	1.8653
ML-D3	3.77900E+06	21.8692
A-2AD	4.52858E+06	26.2071

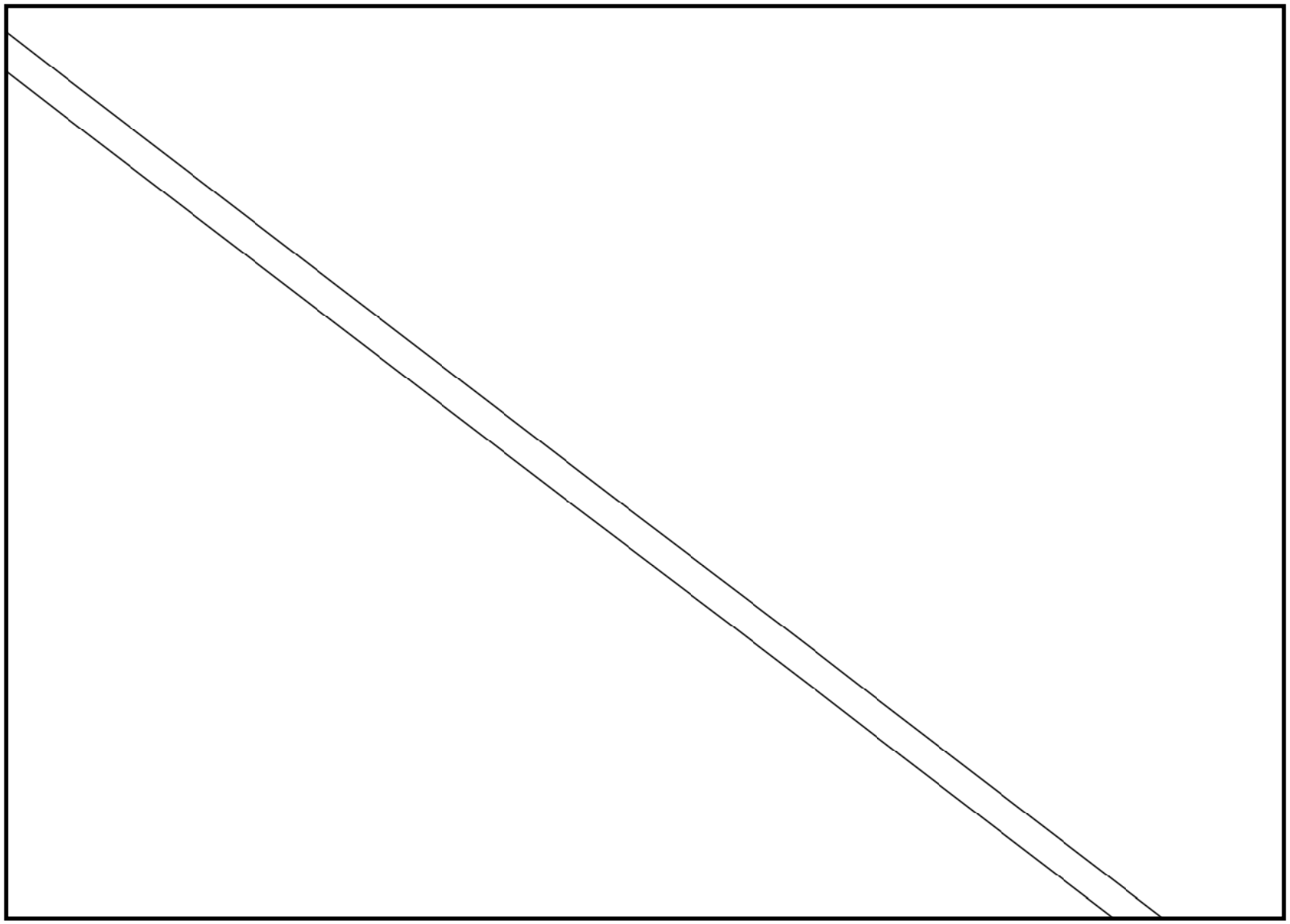
```
        E535-02   315519.6742         1.8259
          B-12A   128808.7848         0.7454
        E135-01   -41.610E+06      -240.7964
       E112-OUT    -7.513E+06       -43.4776

       Outflow      Outflow          Average
       Junction  Volume,ft^3    Outflow, cfs
---------------  ------------   ------------
        E135-01  41.60963E+06       240.7964
       E112-OUT   7.51294E+06        43.4776


*====================================================*
| Initial system volume        =         0.0000 Cu Ft |
| Total system inflow volume   =  54.642196E+06 Cu Ft |
| Inflow + Initial volume      =  54.642196E+06 Cu Ft |
*====================================================*
| Total system outflow         =  49.122562E+06 Cu Ft |
| Volume left in system        =   4.189286E+06 Cu Ft |
| Evaporation                  =         0.0000 Cu Ft |
| Outflow + Final Volume       =  53.311848E+06 Cu Ft |
*====================================================*


*=============================================*
| Total Model Continuity Error                |
| Error in Continuity, Percent =       2.4316 |
| Error in Continuity, ft^3    =    1328683.293 |
| + Error means a continuity loss, - a gain   |
*=============================================*

#####################################################
# Table E22. Numerical Model judgement section    #
#####################################################

Your overall error was                                    2.4316 percent


Worst nodal error was in node ML-D3            with       5.8622 percent


Of the total inflow this loss was                         1.1241 percent


Your overall continuity error was                 Good


                                                Excellent Efficiency


Efficiency of the simulation                      1.06


Most Number of Non Convergences at one Node       0.


Total Number Non Convergences at all Nodes        0.


Total Number of Nodes with Non Convergences       0.



===> Hydraulic model simulation ended normally.
===> XP-SWMM Simulation ended normally.


===> Your input file was named  : P:\PROJECTS\290PMC\PhaseII\DRA\Models\SWMM\Segment D\SWMM\Existing\100YR_Ext_US290_SegD_StplwytoSH6.DAT
===> Your output file was named : P:\PROJECTS\290PMC\PhaseII\DRA\Models\SWMM\Segment D\SWMM\Existing\100YR_Ext_US290_SegD_StplwytoSH6.out

*============================================================*
|             SWMM Simulation Date and Time Summary          |
*============================================================*
| Starting Date... August     22, 2009  Time...   13:15:30:86  |
|   Ending Date... August     22, 2009  Time...   13:25:32:53  |
|  Elapsed Time...   10.02783 minutes or    601.67000 seconds  |
*============================================================*
```

OUTFALL 5
SWMM OUTPUT
100 YR- MITIGATED CONDITIONS

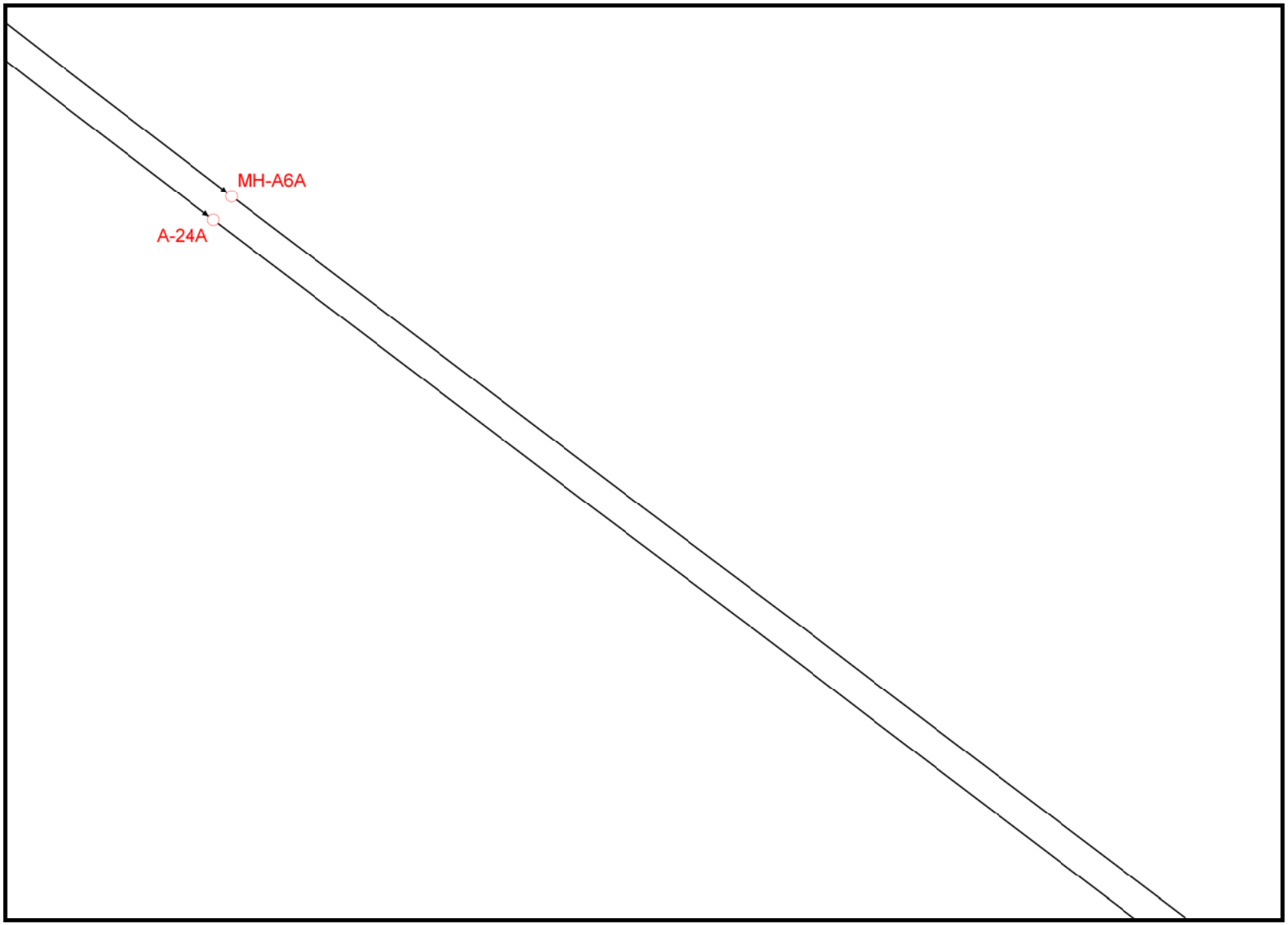
OUTFALL 5
MITIGATED CONDITIONS SWMM LAYOUT



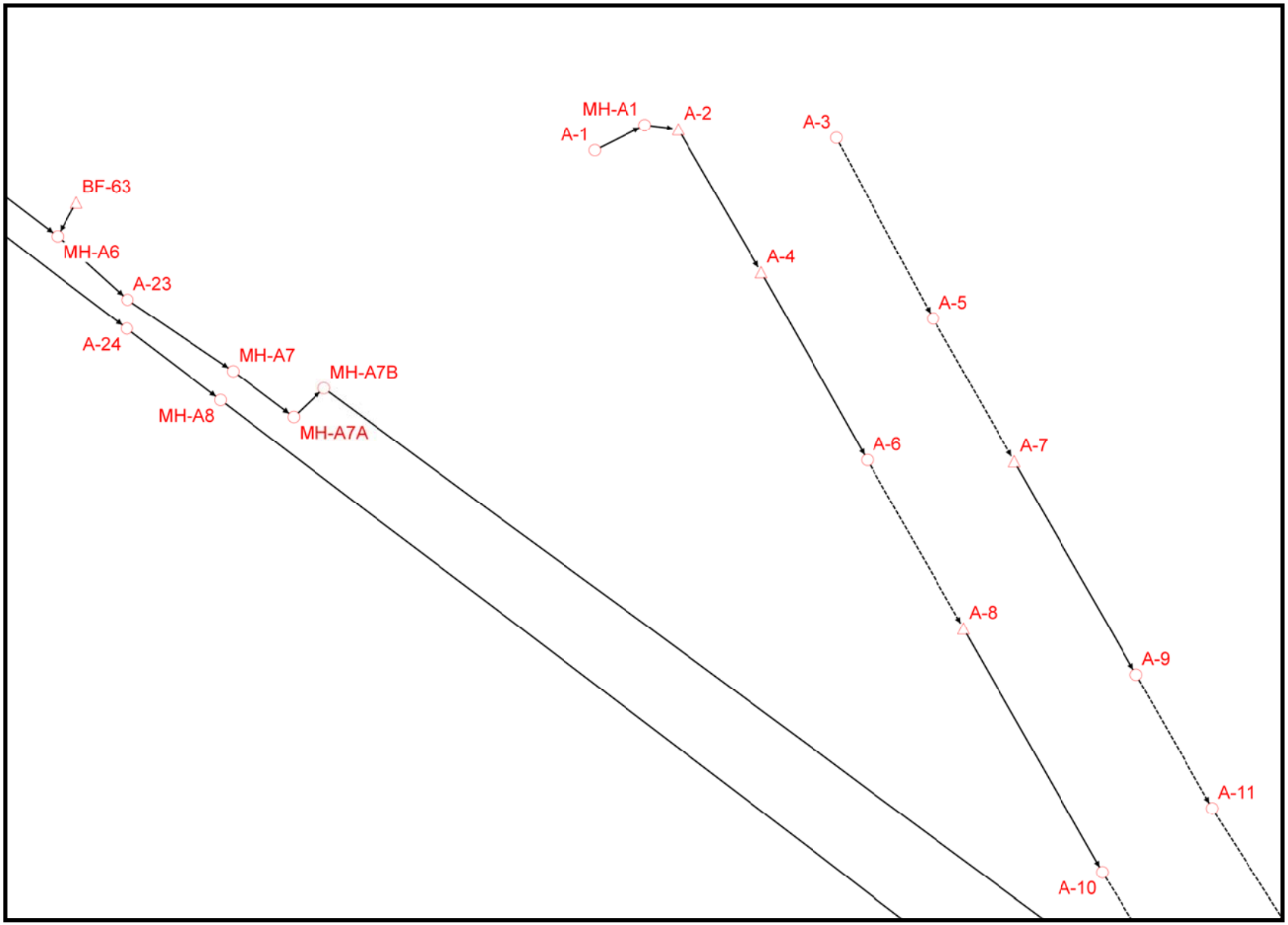
OUTFALL 5
MITIGATED CONDITIONS SWMM LAYOUT



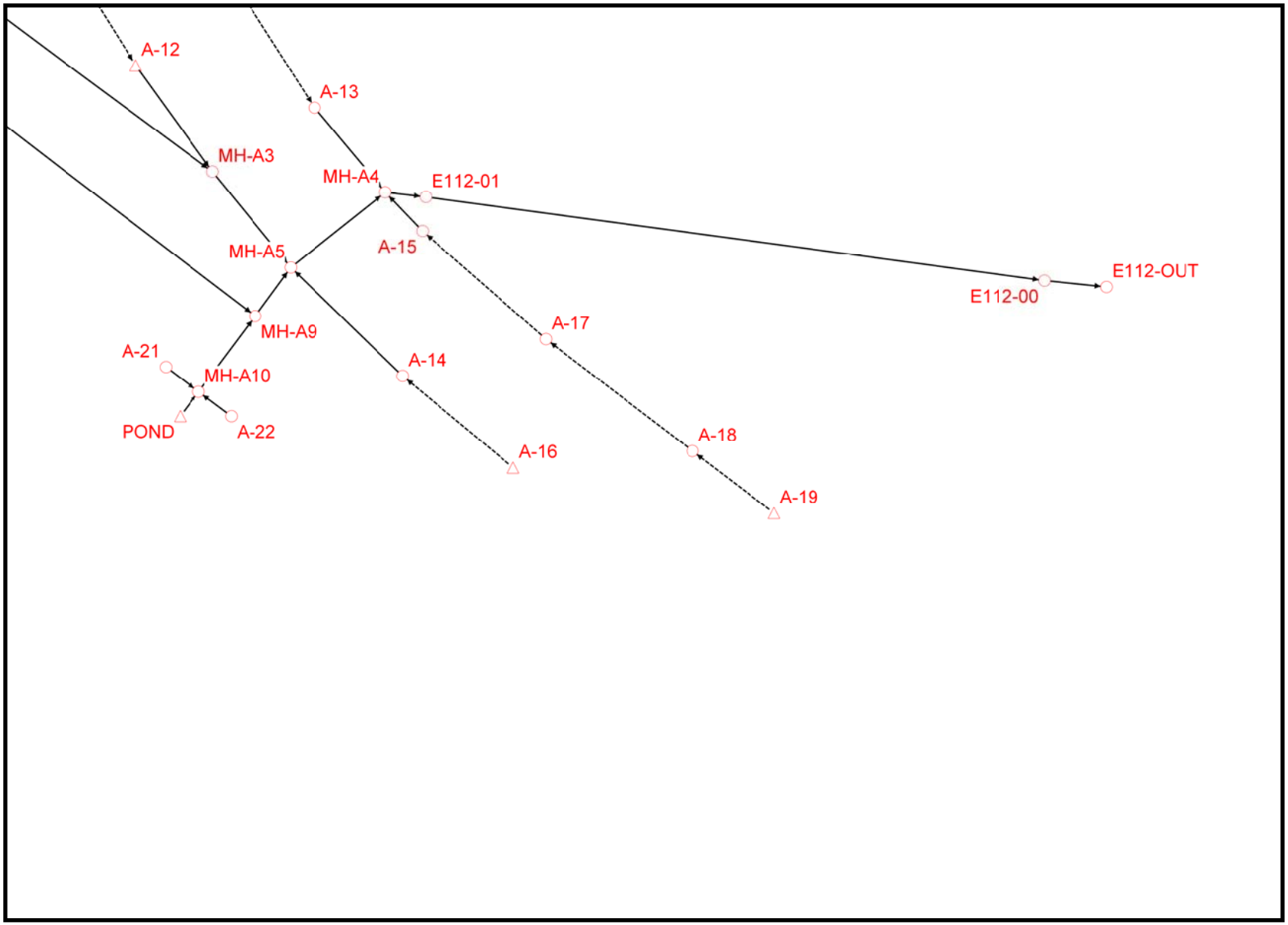
OUTFALL 5
MITIGATED CONDITIONS SWMM LAYOUT



OUTFALL 5
MITIGATED CONDITIONS SWMM LAYOUT



OUTFALL 5
MITIGATED CONDITIONS SWMM LAYOUT



Current Directory: C:\XPS\xpstorm
Engine Name: C:\XPS\xpstorm\SWMMEN~1.EXE

Input File : \Segment D\SWMM\Mitigated Conditions\100YR_US290_Mit_SegD_SysA.XP

```
          *================================================*
          |                    xpswmm                      |
          |     Storm and Wastewater Management Model      |
          |           Interface Version: 10.52             |
          |              Engine Version: 10.54             |
          |================================================|
          |                                                |
          |                Developed by                    |
          |                                                |
          |                XP Software                     |
          |                                                |
          |================================================|
          |      XP Software       November, 2006          |
          |       Data File Version --->   11.9            |
          |       Serial Number: 42-xxx-0000               |
          |          XP Software (Evaluation)              |
          *================================================*
```

Engine Name: C:\XPS\xpstorm\SWMMEN~1.EXE

===
| Input and Output file names by Layer |
===

Input File to Layer #   1 JOT.US
Output File to Layer #   1 JOT.US

===
| Special command line arguments in XP-SWMM2000. This |
| now includes program defaults. $Keywords are the program|
| defaults. Other Keywords are from the SWMMCOM.CFG file.|
| or the command line or any cfg file on the command line.|
| Examples include these in the file xpswm.bat under the |
| section :solve or in the windows version XPSWMM32 in the|
| file solve.bat |
| |
| Note: the cfg file should be in the subdirectory swmxp |
| or defined by the set variable in the xpswm.bat |
| file. Some examples of the command lines possible|
| are shown below: |
| |
| swmmd swmmcom.cfg |
| swmmd my.cfg |
| swmmd nokeys nconv5 perv extranwq |
===

$powerstation	0.0000	1	2
$perv	0.0000	0	4
$oldegg	0.0000	0	7
$as	0.0000	0	11
$noflat	0.0000	0	21
$oldomega	0.0000	0	24
$oldvol	0.0000	1	28
$implicit	0.0000	1	29
$oldhot	0.0000	1	31
$oldscs	0.0000	0	33
$flood	0.0000	1	40
$nokeys	0.0000	0	42
$pzero	0.0000	0	55
$oldvol2	0.0000	2	59
$storage2	0.0000	3	62
$oldhot1	0.0000	1	63
$pumpwt	0.0000	1	70
$ecloss	0.0000	1	77
$exout	0.0000	0	97
SPATIAL=0.55	0.5500	5	124
$djref = -1.0	-0.1000	3	143
$weirlen = 50	50.0000	1	153
$oldbnd	0.0000	1	154
$nogrelev	0.0000	1	161
$ncmid	0.0000	0	164
$new_nl_97	0.0000	2	290
$best97	0.0000	1	294
$newbound	0.0000	1	295
$q_tol = 0.01	0.0001	1	316
$new_storage	0.0000	1	322
$old_iteration	0.0000	1	333
MINLEN=10	10.0000	1	346
$review_elevation	0.0000	1	383
$use_half_volume	0.0000	1	385
$min_ts = 0.5	0.5000	1	407
$design_restart = on	0.0000	1	412
$zero_value=1.e-05	0.0000	1	415
$relax_depth = on	0.0000	1	427
$saveallpts = on	0.0000	1	434

===
| Parameter Values on the Tapes Common Block.These are the |
| values read from the data file and dynamically allocated |
| by the model for this simulation. |
===

```
 Number of Subcatchments in the Runoff Block (NW)....     0
 Number of Channel/Pipes in the Runoff Block (NG)....     0
 Runoff Water quality constituents (NRQ).............     0
 Runoff Land Uses per Subcatchment (NLU).............     0
 Number of Elements in the Transport Block (NET).....     0
 Number of Storage Junctions in Transport (NTSE).....     0
 Number of Input Hydrographs in Transport (NTH)......     0
 Number of Elements in the Extran Block (NEE)........    53
 Number of Groundwater Subcatchments in Runoff (NGW).     0
 Number of Interface locations for all Blocks (NIE)..    53
 Number of Pumps in Extran (NEP).....................     0
 Number of Orifices in Extran (NEO)..................     0
 Number of Tide Gates/Free Outfalls in Extran (NTG)..     1
 Number of Extran Weirs (NEW)........................     0
 Number of scs hydrograph points.....................     1
 Number of Extran printout locations (NPO)...........     0
 Number of Tide elements in Extran (NTE).............     1
 Number of Natural channels (NNC)....................     0
 Number of Storage junctions in Extran (NVSE)........     9
 Number of Time history data points in Extran(NTVAL).     0
 Number of Variable storage elements in Extran (NVST)     9
 Number of Input Hydrographs in Extran (NEH).........    31
 Number of Particle sizes in Transport Block (NPS)...     0
 Number of User defined conduits (NHW)...............    53
 Number of Connecting conduits in Extran (NECC)......    20
 Number of Upstream elements in Transport (NTCC).....    10
 Number of Storage/treatment plants (NSTU)...........     1
```

```
 Number of Values for R1 lines in Transport (NR1)....     0
 Number of Nodes to be allowed for (NNOD)............    53
 Number of Plugs in a Storage Treatment Unit.........     1


#######################################################
#    Entry made to the HYDRAULIC Layer(Block) of SWMM #
#    Last Updated June,2005 by XP Software            #

    US 290/ Hempstead Highway Corridor - From W.Little York to Hollister
    Drainage Impact & Mitigation Study - Existing Conditions - SegB_SysA -1


*============================================================*
|        HYDRAULICS TABLES IN THE OUTPUT FILE                |
|  These are the more important tables in the output file.   |
|  You can use your editor to find the table numbers,        |
|  for example: search for Table E20 to check continuity.    |
|  This output file can be imported into a Word Processor    |
|  and printed on US letter or A4 paper using portrait       |
|  mode, courier font, a size of 8 pt. and margins of 0.75   |
|                                                            |
| Table E1   - Basic Conduit Data                            |
| Table E2   - Conduit Factor Data                           |
| Table E3a  - Junction Data                                 |
| Table E3b  - Junction Data                                 |
| Table E4   - Conduit Connectivity Data                     |
| Table E4a  - Dry Weather Flow Data                         |
| Table E4b  - Real Time Control Data                        |
| Table E5   - Junction Time Step Limitation Summary         |
| Table E5a  - Conduit Explicit Condition Summary            |
| Table E6   - Final Model Condition                         |
| Table E7   - Iteration Summary                             |
| Table E8   - Junction Time Step Limitation Summary         |
| Table E9   - Junction  Summary  Statistics                 |
| Table E10  - Conduit   Summary  Statistics                 |
| Table E11  - Area assumptions used in the analysis         |
| Table E12  - Mean conduit information                      |
| Table E13  - Channel losses(H) and culvert info            |
| Table E13a - Culvert Analysis Classification               |
| Table E14  - Natural Channel Overbank Flow Information     |
| Table E14a - Natural Channel Encroachment Information      |
| Table E14b - Floodplain Mapping                            |
| Table E15  - Spreadsheet Info List                         |
| Table E15a - Spreadsheet Reach List                        |
| Table E16  - New Conduit Output Section                    |
| Table E17  - Pump Operation                                |
| Table E18  - Junction Continuity Error                     |
| Table E19  - Junction Inflow & Outflow Listing             |
| Table E20  - Junction Flooding and Volume List             |
| Table E21  - Continuity balance at simulation end          |
| Table E22  - Model Judgement Section                       |
*============================================================*

Time Control from Hydraulics Job Control
Year.........    1995 Month.......       1
Day..........       1 Hour........       0
Minute.......       0 Second......       0


Control information for simulation
----------------------------------

Integration cycles..................    172800
Length of integration step is......      1.00 seconds
Simulation length...................     48.00 hours
Do not create equiv. pipes(NEQUAL)..         0
Use U.S. customary units for I/O...          0
Printing starts in cycle...........          1
Intermediate printout intervals of.       500 cycles
Intermediate printout intervals of.      8.33 minutes
Summary printout intervals of......       500 cycles
Summary printout time interval of..      8.33 minutes
Hot start file parameter (REDO)....          0
Initial time........................      0.00 hours

Iteration variables: Flow Tolerance.   0.00010
                     Head Tolerance.   0.00010
    Minimum depth (m or ft).........   0.00001
    Underrelaxation parameter.......   0.85000
    Time weighting parameter........   0.85000
    Conduit roughness factor........   1.00000
    Flow adjustment factor..........   1.00000
    Initial Condition Smoothing.....         0
    Courant Time Step Factor........   1.00000
    Default Expansion/Contraction K.   0.00000
    Default Entrance/Exit K.........   0.00000
    Routing Method..................   Dynamic Wave
Default surface area of junctions...     12.57 square feet.
Minimum Junction/Conduit Depth......   0.00001 feet.
Ponding Area Coefficient............   5000.00
Ponding Area Exponent...............    1.0000
Minimum Orifice Length..............    500.00 feet.
NJSW input hydrograph junctions.....    31
     or user defined hydrographs....

*================================================*
|          Table E1 - Conduit Data               |
*================================================*
```

Inp Num	Conduit Name	Length (ft)	Conduit Class	Area (ft^2)	Manning Coef.	Max Width (ft)	Depth (ft)	Trapezoid Side Slopes	
1	L_A-12	319.1060	Rectangle	20.0000	0.0130	5.0000	4.0000		
2	L_MH-A3	301.7830	Rectangle	35.0000	0.0130	7.0000	5.0000		
3	L_A-14	379.5630	Circular	4.9087	0.0130	2.5000	2.5000		
4	L_MH-A9	146.7265	Rectangle	45.0000	0.0130	9.0000	5.0000		
5	L_A-8	683.3450	Rectangle	20.0000	0.0130	5.0000	4.0000		
6	L_MH-A10	230.2457	Rectangle	45.0000	0.0130	9.0000	5.0000		
7	L_A-21	100.0000	Rectangle	25.0000	0.0130	5.0000	5.0000		
8	L_A-22	100.0000	Circular	12.5664	0.0130	4.0000	4.0000		
9	L_A-4	525.7280	Rectangle	15.0000	0.0130	5.0000	3.0000		
10	L_A-2	403.1664	Rectangle	12.0000	0.0130	4.0000	3.0000		
11	L_MH-A1	82.2467	Circular	3.1416	0.0130	2.0000	2.0000		
12	L_A-1	136.0310	Circular	3.1416	0.0130	2.0000	2.0000		
13	L_A-13	266.9091	Rectangle	18.0000	0.0130	6.0000	3.0000		
14	L_A-15	128.8755	Rectangle	15.0000	0.0130	5.0000	3.0000		
15	L_A-7	600.3070	Rectangle	12.0000	0.0130	4.0000	3.0000		
16	L_MH-A6B	5306.0000	Trapezoid	16.0000	0.0350	2.0000	2.0000	3.0000	3.0000
17	L_A-24B	5321.0900	Trapezoid	16.0000	0.0350	2.0000	2.0000	3.0000	3.0000
18	L_MH-A6A	3195.0000	Trapezoid	33.0000	0.0350	2.0000	3.0000	3.0000	3.0000
19	L_A-24A	3453.0000	Trapezoid	56.0000	0.0350	2.0000	4.0000	3.0000	3.0000
20	L_BF-63	90.2500	Circular	7.0686	0.0130	3.0000	3.0000		
21	L_MH-A6	217.0000	Trapezoid	56.0000	0.0350	2.0000	4.0000	3.0000	3.0000
22	L_A-23	262.0000	Rectangle	32.0000	0.0130	8.0000	4.0000		
23	L_A-24	322.0000	Rectangle	32.0000	0.0130	8.0000	4.0000		
24	L_MH-A7	173.0000	Trapezoid	56.0000	0.0350	2.0000	4.0000	3.0000	3.0000

25	L_MH-A7A	95.0000	Rectangle	6.0000	0.0130	3.0000	2.0000		
26	L_MH-A7B	2762.8500	Trapezoid	56.0000	0.0350	2.0000	4.0000	3.0000	3.0000
27	L_MH-A8	3213.9700	Trapezoid	56.0000	0.0350	2.0000	4.0000	3.0000	3.0000
28	L_MH-A5	294.3975	Rectangle	45.0000	0.0130	9.0000	5.0000		
29	L_MH-A4	101.4300	Rectangle	45.0000	0.0130	9.0000	5.0000		
30	L_E112-01	1536.0000	Rectangle	50.0000	0.0130	10.0000	5.0000		
31	L_POND	74.2103	Rectangle	45.0000	0.0130	9.0000	5.0000		
32	L_E112-OUT	150.0000	Trapezoid	333.0000	0.0400	10.0000	9.0000	3.0000	3.0000
33	A-10 RCB	216.6950	Rectangle	20.0000	0.0130	5.0000	4.0000		
34	A-10 OL	216.6950	Trapezoid	19.0000	0.0150	38.0000	0.5000	0.0000	0.0000
35	A-16 RCB	349.9730	Circular	3.1416	0.0130	2.0000	2.0000		
36	A-16 OL	349.9730	Trapezoid	19.0000	0.0150	38.0000	0.5000	0.0000	0.0000
37	A-6 RCB	474.2720	Rectangle	15.0000	0.0130	5.0000	3.0000		
38	A-6 OL	474.2720	Trapezoid	19.0000	0.0150	38.0000	0.5000	0.0000	0.0000
39	A-11 RCB	524.5810	Rectangle	15.0000	0.0130	5.0000	3.0000		
40	A-11 OL	524.5810	Trapezoid	19.0000	0.0150	38.0000	0.5000	0.0000	0.0000
41	A-17 RCB	399.5890	Rectangle	15.0000	0.0130	5.0000	3.0000		
42	A-17 OL	399.5890	Trapezoid	19.0000	0.0150	38.0000	0.5000	0.0000	0.0000
43	A-9 RCB	374.7860	Rectangle	15.0000	0.0130	5.0000	3.0000		
44	A-9 OL	374.7860	Trapezoid	19.0000	0.0150	38.0000	0.5000	0.0000	0.0000
45	A-18 RCB	449.6750	Rectangle	12.0000	0.0130	4.0000	3.0000		
46	A-18 OL	449.6750	Trapezoid	19.0000	0.0150	38.0000	0.5000	0.0000	0.0000
47	A-19 RCP	249.9620	Circular	7.0686	0.0130	3.0000	3.0000		
48	A-19 OL	249.9620	Trapezoid	19.0000	0.0150	38.0000	0.5000	0.0000	0.0000
49	A-5 RCP	399.6930	Circular	7.0686	0.0130	3.0000	3.0000		
50	A-5 OL	399.6930	Trapezoid	19.0000	0.0150	38.0000	0.5000	0.0000	0.0000
51	A-3 RCP	500.1440	Circular	4.9087	0.0130	2.5000	2.5000		
52	A-3 OL	500.1440	Trapezoid	19.0000	0.0150	38.0000	0.5000	0.0000	0.0000

Total length of all conduits .... 38849.9707 feet

==
| Table E2 - Conduit Factor Data |
==

Conduit Name	Number of Barrels	Entrance Loss Coef	Exit Loss Coef	Exp/Contc Coefficnt	Time Weighting Parameter	Low Flow Roughness Factor	Depth at Which n Changes	Flow Routing
L_BF-63	3.0000	0.5000	0.5000	0.0000	0.8500	1.0000	0.0000	Standard - Dynamic Wave
L_A-23	1.0000	-1.0000	0.0000	0.0000	0.8500	1.0000	0.0000	Standard - Dynamic Wave
L_A-24	1.0000	0.5000	0.5000	0.0000	0.8500	1.0000	0.0000	Standard - Dynamic Wave
L_MH-A7A	1.0000	0.5000	0.5000	0.0000	0.8500	1.0000	0.0000	Standard - Dynamic Wave
L_E112-01	1.0000	0.0000	0.5000	0.0000	0.8500	1.0000	0.0000	Standard - Dynamic Wave
L_POND	1.0000	0.5000	0.0000	0.0000	0.8500	1.0000	0.0000	Standard - Dynamic Wave

==
| If there are messages about (sqrt(g*d)*dt/dx), or |
| the sqrt(wave celerity)*time step/conduit length |
| in the output file all it means is that the |
| program will lower the internal time step to |
| satisfy this condition (explicit condition). |
| You control the actual internal time step by |
| using the minimum courant time step factor in the |
| HYDRAULICS job control. The message put in words |
| states that the smallest conduit with the fastest |
| velocity will control the time step selection. |
| You have further control by using the modify |
| conduit option in the HYDRAULICS Job Control. |
==

Conduit Name	Courant Ratio
L_A-12	0.04
L_MH-A3	0.04
L_A-14	0.02
L_MH-A9	0.09
L_A-8	0.02
L_MH-A10	0.06
L_A-21	0.13
L_A-22	0.11
L_A-4	0.02
L_A-2	0.02
L_MH-A1	0.10
L_A-1	0.06
L_A-13	0.04
L_A-15	0.08
L_A-7	0.02
L_MH-A6B	0.00
L_A-24B	0.00
L_MH-A6A	0.00
L_A-24A	0.00
L_BF-63	0.11
L_MH-A6	0.04
L_A-23	0.04
L_A-24	0.04
L_MH-A7	0.05
L_MH-A7A	0.08
L_MH-A7B	0.00
L_MH-A8	0.00
L_MH-A5	0.04
L_MH-A4	0.13
L_E112-01	0.01
L_POND	0.17
L_E112-OUT	0.09
A-10 RCB	0.05
A-10 OL	0.02
A-16 RCB	0.02
A-16 OL	0.01
A-6 RCB	0.02
A-6 OL	0.01
A-11 RCB	0.02
A-11 OL	0.01
A-17 RCB	0.02
A-17 OL	0.01
A-9 RCB	0.03
A-9 OL	0.01
A-18 RCB	0.02
A-18 OL	0.01
A-19 RCP	0.04
A-19 OL	0.02
A-5 RCP	0.02
A-5 OL	0.01
A-3 RCP	0.02
A-3 OL	0.01

==================
| Conduit Volume |
==================

Full pipe or full open conduit volume
Input full depth volume..... 1.1930E+06 cubic feet

===> Warning !! The upstream and downstream junctions for the following conduits
have been reversed to correspond to the positive flow and decreasing
slope convention. A negative flow in the output thus means
the flow was from your original upstream junction to your original

downstream junction. Any initial flow has been multiplied by -1.

1. Conduit #...A-16 OL has been changed.
2. Conduit #...A-17 OL has been changed.
3. Conduit #...A-18 OL has been changed.
4. Conduit #...A-19 OL has been changed.

Table E3a - Junction Data

Inp Num	Junction Name	Ground Elevation	Crown Elevation	Invert Elevation	Qinst cfs	Initial Depth-ft	Interface Flow (%)
1	MH-A3	124.0000	124.0000	113.5000	0.0000	0.0000	100.0000
2	A-12	123.1100	123.1100	114.9790	0.0000	0.0000	100.0000
3	MH-A5	125.1300	125.1300	112.7749	0.0000	0.0000	100.0000
4	A-10	123.8600	123.8600	115.3040	0.0000	0.0000	100.0000
5	A-14	123.6800	123.6803	116.1163	0.0000	0.0000	100.0000
6	MH-A9	125.7000	125.7000	112.9509	0.0000	0.0000	100.0000
7	A-8	124.1600	124.1600	116.3290	0.0000	0.0000	100.0000
8	A-16	122.3400	122.3402	117.1412	0.0000	0.0000	100.0000
9	MH-A10	125.5000	125.5000	113.2271	0.0000	0.0000	100.0000
10	A-6	126.0500	126.0500	118.0400	0.0000	0.0000	100.0000
11	A-21	125.5000	125.5000	113.3271	0.0000	0.0000	100.0000
12	A-22	125.5000	125.5000	113.3271	0.0000	0.0000	100.0000
13	A-4	125.4100	121.8290	118.8290	0.0000	0.0000	100.0000
14	A-2	126.4600	122.4340	119.4340	0.0000	0.0000	100.0000
15	MH-A1	126.5000	126.5000	120.5570	0.0000	0.0000	100.0000
16	A-1	126.5000	126.5000	120.7610	0.0000	0.0000	100.0000
17	MH-A4	123.9400	123.9400	112.4217	0.0000	0.0000	100.0000
18	A-13	124.4400	124.4400	115.6510	0.0000	0.0000	100.0000
19	A-15	124.4400	124.4400	113.7630	0.0000	0.0000	100.0000
20	A-11	124.4400	124.4400	116.4380	0.0000	0.0000	100.0000
21	A-17	123.3900	123.3900	114.3630	0.0000	0.0000	100.0000
22	A-9	124.5000	124.5000	117.0000	0.0000	0.0000	100.0000
23	A-18	121.8100	121.8100	115.0380	0.0000	0.0000	100.0000
24	A-7	124.4900	124.4900	117.9000	0.0000	0.0000	100.0000
25	A-19	120.9400	120.9400	115.4130	0.0000	0.0000	100.0000
26	A-5	125.0900	125.0900	118.5000	0.0000	0.0000	100.0000
27	A-3	125.5800	125.5800	119.7500	0.0000	0.0000	100.0000
28	BF-63	129.7000	129.7000	123.3000	0.0000	0.0000	100.0000
29	MH-A6	129.3050	129.3050	123.0000	0.0000	0.0000	100.0000
30	A-23	129.8000	129.8000	122.6000	0.0000	0.0000	100.0000
31	MH-A7	129.4000	129.4000	122.1600	0.0000	0.0000	100.0000
32	A-24	128.5000	128.5000	122.5900	0.0000	0.0000	100.0000
33	MH-A8	128.5000	128.5000	122.1700	0.0000	0.0000	100.0000
34	MH-A6A	132.5000	132.5000	128.6900	0.0000	0.0000	100.0000
35	A-24A	132.0000	132.0000	127.6590	0.0000	0.0000	100.0000
36	MH-A6B	137.0000	136.0000	134.0000	0.0000	0.0000	100.0000
37	A-24B	137.1400	134.9800	132.9800	0.0000	0.0000	100.0000
38	MH-A7A	128.5000	128.5000	121.9900	0.0000	0.0000	100.0000
39	MH-A7B	128.5000	128.5000	121.9000	0.0000	0.0000	100.0000
40	E112-01	123.0000	123.0000	112.3000	0.0000	0.0000	100.0000
41	E112-00	120.0000	120.0000	110.4568	0.0000	0.0000	100.0000
42	POND	122.0000	118.3161	113.3161	0.0000	0.0000	100.0000
43	E112-OUT	120.0000	119.2768	110.2768	0.0000	0.0000	100.0000

Table E3b - Junction Data

Inp Num	Junction Name	X Coord.	Y Coord.	Type of Manhole	Type of Inlet	Maximum Capacity	Pavement Shape	Pavement Slope
1	MH-A3	3.042074E+06	13.89573E+06	F	Normal		0	0.0000
2	A-12	3.041887E+06	13.89599E+06	No P	Normal		0	0.0000
3	MH-A5	3.042265E+06	13.89550E+06	F	Normal		0	0.0000
4	A-10	3.041772E+06	13.89617E+06	F	Normal		0	0.0000
5	A-14	3.042538E+06	13.89523E+06	F	Normal		0	0.0000
6	MH-A9	3.042178E+06	13.89538E+06	F	Normal		0	0.0000
7	A-8	3.041433E+06	13.89676E+06	No P	Normal		0	0.0000
8	A-16	3.042807E+06	13.89501E+06	No P	Normal		0	0.0000
9	MH-A10	3.042040E+06	13.89519E+06	F	Normal		0	0.0000
10	A-6	3.041198E+06	13.89718E+06	F	Normal		0	0.0000
11	A-21	3.041961E+06	13.89525E+06	F	Normal		0	0.0000
12	A-22	3.042120E+06	13.89513E+06	F	Normal		0	0.0000
13	A-4	3.040938E+06	13.89763E+06	No P	Normal		0	0.0000
14	A-2	3.040735E+06	13.89798E+06	No P	Normal		0	0.0000
15	MH-A1	3.040654E+06	13.89799E+06	F	Normal		0	0.0000
16	A-1	3.040532E+06	13.89793E+06	F	Normal		0	0.0000
17	MH-A4	3.042495E+06	13.89568E+06	F	Normal		0	0.0000
18	A-13	3.042323E+06	13.89588E+06	F	Normal		0	0.0000
19	A-15	3.042586E+06	13.89558E+06	No P	Normal		0	0.0000
20	A-11	3.042040E+06	13.89633E+06	F	Normal		0	0.0000
21	A-17	3.042887E+06	13.89532E+06	F	Normal		0	0.0000
22	A-9	3.041854E+06	13.89665E+06	F	Normal		0	0.0000
23	A-18	3.043245E+06	13.89505E+06	F	Normal		0	0.0000
24	A-7	3.041557E+06	13.89717E+06	No P	Normal		0	0.0000
25	A-19	3.043443E+06	13.89490E+06	No P	Normal		0	0.0000
26	A-5	3.041359E+06	13.89752E+06	F	Normal		0	0.0000
27	A-3	3.041122E+06	13.89796E+06	No P	Normal		0	0.0000
28	BF-63	3.039267E+06	13.89780E+06	F	Normal		0	0.0000
29	MH-A6	3.039222E+06	13.89772E+06	F	Normal		0	0.0000
30	A-23	3.039392E+06	13.89757E+06	F	Normal		0	0.0000
31	MH-A7	3.039650E+06	13.89739E+06	F	Normal		0	0.0000
32	A-24	3.039391E+06	13.89750E+06	F	Normal		0	0.0000
33	MH-A8	3.039619E+06	13.89732E+06	F	Normal		0	0.0000
34	MH-A6A	3.036681E+06	13.89964E+06	F	Normal		0	0.0000
35	A-24A	3.036636E+06	13.89958E+06	F	Normal		0	0.0000
36	MH-A6B	3.032465E+06	13.90286E+06	No P	Normal		0	0.0000
37	A-24B	3.032406E+06	13.90281E+06	No P	Normal		0	0.0000
38	MH-A7A	3.039798E+06	13.89728E+06	F	Normal		0	0.0000
39	MH-A7B	3.039872E+06	13.89735E+06	F	Normal		0	0.0000
40	E112-01	3.042594E+06	13.89567E+06	F	Normal		0	0.0000
41	E112-00	3.044105E+06	13.89546E+06	F	Normal		0	0.0000
42	POND	3.041995E+06	13.89513E+06	No P	Normal		0	0.0000
43	E112-OUT	3.044256E+06	13.89545E+06	No P	Normal		0	0.0000

Table E4 - Conduit Connectivity

Input Number	Conduit Name	Upstream Node	Downstream Node	Upstream Elevation	Downstream Elevation	
1	L_A-12	A-12	MH-A3	114.9790	114.5000	No Design
2	L_MH-A3	MH-A3	MH-A5	113.5000	113.0469	No Design
3	L_A-14	A-14	MH-A5	116.1163	115.5469	No Design
4	L_MH-A9	MH-A9	MH-A5	112.9509	112.7749	No Design
5	L_A-8	A-8	A-10	116.3290	115.3040	No Design
6	L_MH-A10	MH-A10	MH-A9	113.2271	112.9509	No Design
7	L_A-21	A-21	MH-A10	113.3271	113.2271	No Design
8	L_A-22	A-22	MH-A10	114.3271	114.2271	No Design
9	L_A-4	A-4	A-6	118.8290	118.0400	No Design

10	L_A-2	A-2	A-4	119.4340	118.8290	No Design
11	L_MH-A1	MH-A1	A-2	120.5570	120.4340	No Design
12	L_A-1	A-1	MH-A1	120.7610	120.5570	No Design
13	L_A-13	A-13	MH-A4	115.6510	115.2477	No Design
14	L_A-15	A-15	MH-A4	113.7630	113.5667	No Design
15	L_A-7	A-7	A-9	117.9000	117.0000	No Design
16	L_MH-A6B	MH-A6B	MH-A6A	134.0000	128.6900	No Design
17	L_A-24B	A-24B	A-24A	132.9800	127.6590	No Design
18	L_MH-A6A	MH-A6A	MH-A6	128.6900	123.0000	No Design
19	L_A-24A	A-24A	A-24	127.6590	122.5900	No Design
20	L_BF-63	BF-63	MH-A6	123.3000	123.0000	No Design
21	L_MH-A6	MH-A6	A-23	123.0000	122.6000	No Design
22	L_A-23	A-23	MH-A7	122.6000	122.1600	No Design
23	L_A-24	A-24	MH-A8	122.5900	122.1700	No Design
24	L_MH-A7	MH-A7	MH-A7A	122.1600	121.9900	No Design
25	L_MH-A7A	MH-A7A	MH-A7B	121.9900	121.9000	No Design
26	L_MH-A7B	MH-A7B	MH-A3	121.9000	119.7600	No Design
27	L_MH-A8	MH-A8	MH-A9	122.1700	121.6999	No Design
28	L_MH-A5	MH-A5	MH-A4	112.7749	112.4217	No Design
29	L_MH-A4	MH-A4	E112-01	112.4217	112.3000	No Design
30	L_E112-01	E112-01	E112-00	112.3000	110.4568	No Design
31	L_POND	POND	MH-A10	113.3161	113.2271	No Design
32	L_E112-OUT	E112-00	E112-OUT	110.4568	110.2768	No Design
33	A-10 RCB	A-10	A-12	115.3040	114.9790	No Design
34	A-10 OL	A-10	A-12	123.3600	122.6100	No Design
35	A-16 RCB	A-16	A-14	117.1412	116.6163	No Design
36	A-16 OL	A-14	A-16	123.1803	121.8402	No Design
37	A-6 RCB	A-6	A-8	118.0400	117.3290	No Design
38	A-6 OL	A-6	A-8	125.5500	123.6600	No Design
39	A-11 RCB	A-11	A-13	116.4380	115.6510	No Design
40	A-11 OL	A-11	A-13	123.4400	123.4000	No Design
41	A-17 RCB	A-17	A-15	114.3630	113.7630	No Design
42	A-17 OL	A-15	A-17	123.9400	122.8900	No Design
43	A-9 RCB	A-9	A-11	117.0000	116.4380	No Design
44	A-9 OL	A-9	A-11	123.5000	123.4400	No Design
45	A-18 RCB	A-18	A-17	115.0380	114.3630	No Design
46	A-18 OL	A-17	A-18	122.8900	121.3100	No Design
47	A-19 RCP	A-19	A-18	115.4130	115.0380	No Design
48	A-19 OL	A-18	A-19	121.3100	120.4400	No Design
49	A-5 RCP	A-5	A-7	118.5000	117.9000	No Design
50	A-5 OL	A-5	A-7	124.5900	123.9900	No Design
51	A-3 RCP	A-3	A-5	119.7500	119.0000	No Design
52	A-3 OL	A-3	A-5	125.0800	124.5900	No Design

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| Storage Junction Data |
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STORAGE JUNCTION NUMBER OR NAME	JUNCTION TYPE	MAXIMUM OR CONSTANT SURFACE AREA (FT2)	PEAK OR CONSTANT VOLUME (CUBIC FEET)	CROWN ELEVATION (FT)	DEPTH STARTS FROM
A-12	Stage/Area	17119.0800	129183.5600	123.1100	Spill Crest
A-8	Stage/Area	17119.0800	124047.8360	124.1600	Spill Crest
A-16	Stage/Area	17119.0800	78986.9936	122.3400	Spill Crest
A-4	Stage/Area	17119.0800	102648.9860	125.4100	Spill Crest
A-2	Stage/Area	17119.0800	110266.9766	126.4600	Spill Crest
A-7	Stage/Area	24916.3200	146237.6776	124.4900	Spill Crest
A-19	Stage/Area	24916.3200	119751.6294	120.9400	Spill Crest
BF-63	Stage/Area	1.571209E+06	8.388425E+06	129.7000	Node Invert
POND	Stage/Area	261795.6000	1.787407E+06	122.0000	Node Invert

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| Variable storage data for node | A-12
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	114.9790	0.0000	4.3560	0.0000	0.0001	0.0000
2	115.0040	0.0250	150.8265	1.5068	0.0035	0.0000
3	115.0290	0.0500	297.2970	7.0058	0.0068	0.0002
4	115.0540	0.0750	443.7675	16.2082	0.0102	0.0004
5	115.0790	0.1000	590.2380	29.0898	0.0135	0.0007
6	115.1040	0.1250	736.7085	45.6428	0.0169	0.0010
7	115.1290	0.1500	883.1790	65.8638	0.0203	0.0015
8	115.1540	0.1750	1029.6495	89.7507	0.0236	0.0021
9	115.1790	0.2000	1176.1200	117.3026	0.0270	0.0027
10	115.2040	0.2250	1475.5950	150.3783	0.0339	0.0035
11	115.2290	0.2500	1775.0700	190.9540	0.0408	0.0044
12	115.2540	0.2750	2074.5450	239.0256	0.0476	0.0055
13	115.2790	0.3000	2374.0200	294.5906	0.0545	0.0068
14	115.3040	0.3250	2673.4950	357.6475	0.0614	0.0082
15	115.3290	0.3500	2972.9700	428.1952	0.0683	0.0098
16	115.3540	0.3750	3272.4450	506.2330	0.0751	0.0116
17	115.3790	0.4000	3571.9200	591.7602	0.0820	0.0136
18	115.4040	0.4250	4067.4150	687.1849	0.0934	0.0158
19	115.4290	0.4500	4562.9100	795.0046	0.1047	0.0183
20	115.4540	0.4750	5058.4050	915.2179	0.1161	0.0210
21	115.4790	0.5000	5553.9000	1047.8235	0.1275	0.0241
22	115.5040	0.5250	6049.3950	1192.8205	0.1389	0.0274
23	115.5290	0.5500	6544.8900	1350.2085	0.1502	0.0310
24	115.5540	0.5750	7040.3850	1519.9868	0.1616	0.0349
25	115.5790	0.6000	7535.8800	1702.1550	0.1730	0.0391
26	115.6040	0.6250	8330.8500	1900.4061	0.1912	0.0436
27	115.6290	0.6500	9125.8200	2118.5390	0.2095	0.0486
28	115.6540	0.6750	9920.7900	2356.5524	0.2278	0.0541
29	115.6790	0.7000	10715.7600	2614.4455	0.2460	0.0600
30	115.7040	0.7250	11510.7300	2892.2174	0.2642	0.0664
31	115.7290	0.7500	12305.7000	3189.8674	0.2825	0.0732
32	115.7540	0.7750	13100.6700	3507.3952	0.3007	0.0805
33	115.7790	0.8000	13895.6400	3844.8003	0.3190	0.0883
34	115.7915	0.8125	14298.5700	4021.0081	0.3282	0.0923
35	115.8040	0.8250	14701.5000	4202.2527	0.3375	0.0965
36	115.8165	0.8375	15104.4300	4388.5341	0.3468	0.1007
37	115.8290	0.8500	15507.3600	4579.8523	0.3560	0.1051
38	115.8415	0.8625	15910.2900	4776.2072	0.3653	0.1096
39	115.8540	0.8750	16313.2200	4977.5989	0.3745	0.1143
40	115.8665	0.8875	16716.1500	5184.0274	0.3838	0.1190
41	115.8790	0.9000	17119.0800	5395.4925	0.3930	0.1239
42	123.1100	8.1310	17119.0800	129183.5600	0.3930	2.9656

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| Variable storage data for node | A-8
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	116.3290	0.0000	4.3560	0.0000	0.0001	0.0000
2	116.3540	0.0250	150.8265	1.5068	0.0035	0.0000
3	116.3790	0.0500	297.2970	7.0058	0.0068	0.0002
4	116.4040	0.0750	443.7675	16.2082	0.0102	0.0004
5	116.4290	0.1000	590.2380	29.0898	0.0135	0.0007
6	116.4540	0.1250	736.7085	45.6428	0.0169	0.0010
7	116.4790	0.1500	883.1790	65.8638	0.0203	0.0015
8	116.5040	0.1750	1029.6495	89.7507	0.0236	0.0021
9	116.5290	0.2000	1176.1200	117.3026	0.0270	0.0027
10	116.5540	0.2250	1475.5950	150.3783	0.0339	0.0035

11	116.5790	0.2500	1775.0700	190.9540	0.0408	0.0044
12	116.6040	0.2750	2074.5450	239.0256	0.0476	0.0055
13	116.6290	0.3000	2374.0200	294.5906	0.0545	0.0068
14	116.6540	0.3250	2673.4950	357.6475	0.0614	0.0082
15	116.6790	0.3500	2972.9700	428.1952	0.0683	0.0098
16	116.7040	0.3750	3272.4450	506.2330	0.0751	0.0116
17	116.7290	0.4000	3571.9200	591.7602	0.0820	0.0136
18	116.7540	0.4250	4067.4150	687.1849	0.0934	0.0158
19	116.7790	0.4500	4562.9100	795.0046	0.1047	0.0183
20	116.8040	0.4750	5058.4050	915.2179	0.1161	0.0210
21	116.8290	0.5000	5553.9000	1047.8235	0.1275	0.0241
22	116.8540	0.5250	6049.3950	1192.8205	0.1389	0.0274
23	116.8790	0.5500	6544.8900	1350.2085	0.1502	0.0310
24	116.9040	0.5750	7040.3850	1519.9868	0.1616	0.0349
25	116.9290	0.6000	7535.8800	1702.1550	0.1730	0.0391
26	116.9540	0.6250	8330.8500	1900.4061	0.1912	0.0436
27	116.9790	0.6500	9125.8200	2118.5390	0.2095	0.0486
28	117.0040	0.6750	9920.7900	2356.5524	0.2278	0.0541
29	117.0290	0.7000	10715.7600	2614.4455	0.2460	0.0600
30	117.0540	0.7250	11510.7300	2892.2174	0.2642	0.0664
31	117.0790	0.7500	12305.7000	3189.8674	0.2825	0.0732
32	117.1040	0.7750	13100.6700	3507.3952	0.3007	0.0805
33	117.1290	0.8000	13895.6400	3844.8003	0.3190	0.0883
34	117.1415	0.8125	14298.5700	4021.0081	0.3282	0.0923
35	117.1540	0.8250	14701.5000	4202.2527	0.3375	0.0965
36	117.1665	0.8375	15104.4300	4388.5341	0.3468	0.1007
37	117.1790	0.8500	15507.3600	4579.8523	0.3560	0.1051
38	117.1915	0.8625	15910.2900	4776.2072	0.3653	0.1096
39	117.2040	0.8750	16313.2200	4977.5989	0.3745	0.1143
40	117.2165	0.8875	16716.1500	5184.0274	0.3838	0.1190
41	117.2290	0.9000	17119.0800	5395.4925	0.3930	0.1239
42	124.1600	7.8310	17119.0800	124047.8360	0.3930	2.8477

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| Variable storage data for node | A-16
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	117.1412	0.0000	4.3560	0.0000	0.0001	0.0000
2	117.1662	0.0250	150.8265	1.5068	0.0035	0.0000
3	117.1912	0.0500	297.2970	7.0058	0.0068	0.0002
4	117.2162	0.0750	443.7675	16.2082	0.0102	0.0004
5	117.2412	0.1000	590.2380	29.0898	0.0135	0.0007
6	117.2662	0.1250	736.7085	45.6428	0.0169	0.0010
7	117.2912	0.1500	883.1790	65.8638	0.0203	0.0015
8	117.3162	0.1750	1029.6495	89.7507	0.0236	0.0021
9	117.3412	0.2000	1176.1200	117.3026	0.0270	0.0027
10	117.3662	0.2250	1475.5950	150.3783	0.0339	0.0035
11	117.3912	0.2500	1775.0700	190.9540	0.0408	0.0044
12	117.4162	0.2750	2074.5450	239.0256	0.0476	0.0055
13	117.4412	0.3000	2374.0200	294.5906	0.0545	0.0068
14	117.4662	0.3250	2673.4950	357.6475	0.0614	0.0082
15	117.4912	0.3500	2972.9700	428.1952	0.0683	0.0098
16	117.5162	0.3750	3272.4450	506.2330	0.0751	0.0116
17	117.5412	0.4000	3571.9200	591.7602	0.0820	0.0136
18	117.5662	0.4250	4067.4150	687.1849	0.0934	0.0158
19	117.5912	0.4500	4562.9100	795.0046	0.1047	0.0183
20	117.6162	0.4750	5058.4050	915.2179	0.1161	0.0210
21	117.6412	0.5000	5553.9000	1047.8235	0.1275	0.0241
22	117.6662	0.5250	6049.3950	1192.8205	0.1389	0.0274
23	117.6912	0.5500	6544.8900	1350.2085	0.1502	0.0310
24	117.7162	0.5750	7040.3850	1519.9868	0.1616	0.0349
25	117.7412	0.6000	7535.8800	1702.1550	0.1730	0.0391
26	117.7662	0.6250	8330.8500	1900.4061	0.1912	0.0436
27	117.7912	0.6500	9125.8200	2118.5390	0.2095	0.0486
28	117.8162	0.6750	9920.7900	2356.5524	0.2278	0.0541
29	117.8412	0.7000	10715.7600	2614.4455	0.2460	0.0600
30	117.8662	0.7250	11510.7300	2892.2174	0.2642	0.0664
31	117.8912	0.7500	12305.7000	3189.8674	0.2825	0.0732
32	117.9162	0.7750	13100.6700	3507.3952	0.3007	0.0805
33	117.9412	0.8000	13895.6400	3844.8003	0.3190	0.0883
34	117.9537	0.8125	14298.5700	4021.0081	0.3282	0.0923
35	117.9662	0.8250	14701.5000	4202.2527	0.3375	0.0965
36	117.9787	0.8375	15104.4300	4388.5341	0.3468	0.1007
37	117.9912	0.8500	15507.3600	4579.8523	0.3560	0.1051
38	118.0037	0.8625	15910.2900	4776.2072	0.3653	0.1096
39	118.0162	0.8750	16313.2200	4977.5989	0.3745	0.1143
40	118.0287	0.8875	16716.1500	5184.0274	0.3838	0.1190
41	118.0412	0.9000	17119.0800	5395.4925	0.3930	0.1239
42	122.3400	5.1988	17119.0800	78986.9936	0.3930	1.8133

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| Variable storage data for node | A-4
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	118.8290	0.0000	4.3560	0.0000	0.0001	0.0000
2	118.8540	0.0250	150.8265	1.5068	0.0035	0.0000
3	118.8790	0.0500	297.2970	7.0058	0.0068	0.0002
4	118.9040	0.0750	443.7675	16.2082	0.0102	0.0004
5	118.9290	0.1000	590.2380	29.0898	0.0135	0.0007
6	118.9540	0.1250	736.7085	45.6428	0.0169	0.0010
7	118.9790	0.1500	883.1790	65.8638	0.0203	0.0015
8	119.0040	0.1750	1029.6495	89.7507	0.0236	0.0021
9	119.0290	0.2000	1176.1200	117.3026	0.0270	0.0027
10	119.0540	0.2250	1475.5950	150.3783	0.0339	0.0035
11	119.0790	0.2500	1775.0700	190.9540	0.0408	0.0044
12	119.1040	0.2750	2074.5450	239.0256	0.0476	0.0055
13	119.1290	0.3000	2374.0200	294.5906	0.0545	0.0068
14	119.1540	0.3250	2673.4950	357.6475	0.0614	0.0082
15	119.1790	0.3500	2972.9700	428.1952	0.0683	0.0098
16	119.2040	0.3750	3272.4450	506.2330	0.0751	0.0116
17	119.2290	0.4000	3571.9200	591.7602	0.0820	0.0136
18	119.2540	0.4250	4067.4150	687.1849	0.0934	0.0158
19	119.2790	0.4500	4562.9100	795.0046	0.1047	0.0183
20	119.3040	0.4750	5058.4050	915.2179	0.1161	0.0210
21	119.3290	0.5000	5553.9000	1047.8235	0.1275	0.0241
22	119.3540	0.5250	6049.3950	1192.8205	0.1389	0.0274
23	119.3790	0.5500	6544.8900	1350.2085	0.1502	0.0310
24	119.4040	0.5750	7040.3850	1519.9868	0.1616	0.0349
25	119.4290	0.6000	7535.8800	1702.1550	0.1730	0.0391
26	119.4540	0.6250	8330.8500	1900.4061	0.1912	0.0436
27	119.4790	0.6500	9125.8200	2118.5390	0.2095	0.0486
28	119.5040	0.6750	9920.7900	2356.5524	0.2278	0.0541
29	119.5290	0.7000	10715.7600	2614.4455	0.2460	0.0600
30	119.5540	0.7250	11510.7300	2892.2174	0.2642	0.0664
31	119.5790	0.7500	12305.7000	3189.8674	0.2825	0.0732
32	119.6040	0.7750	13100.6700	3507.3952	0.3007	0.0805
33	119.6290	0.8000	13895.6400	3844.8003	0.3190	0.0883
34	119.6415	0.8125	14298.5700	4021.0081	0.3282	0.0923
35	119.6540	0.8250	14701.5000	4202.2527	0.3375	0.0965
36	119.6665	0.8375	15104.4300	4388.5341	0.3468	0.1007
37	119.6790	0.8500	15507.3600	4579.8523	0.3560	0.1051
38	119.6915	0.8625	15910.2900	4776.2072	0.3653	0.1096
39	119.7040	0.8750	16313.2200	4977.5989	0.3745	0.1143
40	119.7165	0.8875	16716.1500	5184.0274	0.3838	0.1190

41	119.7290	0.9000	17119.0800	5395.4925	0.3930	0.1239
42	125.4100	6.5810	17119.0800	102648.9860	0.3930	2.3565

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| Variable storage data for node | A-2
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	119.4340	0.0000	4.3560	0.0000	0.0001	0.0000
2	119.4590	0.0250	150.8265	1.5068	0.0035	0.0000
3	119.4840	0.0500	297.2970	7.0058	0.0068	0.0002
4	119.5090	0.0750	443.7675	16.2082	0.0102	0.0004
5	119.5340	0.1000	590.2380	29.0898	0.0135	0.0007
6	119.5590	0.1250	736.7085	45.6428	0.0169	0.0010
7	119.5840	0.1500	883.1790	65.8638	0.0203	0.0015
8	119.6090	0.1750	1029.6495	89.7507	0.0236	0.0021
9	119.6340	0.2000	1176.1200	117.3026	0.0270	0.0027
10	119.6590	0.2250	1475.5950	150.3783	0.0339	0.0035
11	119.6840	0.2500	1775.0700	190.9540	0.0408	0.0044
12	119.7090	0.2750	2074.5450	239.0256	0.0476	0.0055
13	119.7340	0.3000	2374.0200	294.5906	0.0545	0.0068
14	119.7590	0.3250	2673.4950	357.6475	0.0614	0.0082
15	119.7840	0.3500	2972.9700	428.1952	0.0683	0.0098
16	119.8090	0.3750	3272.4450	506.2330	0.0751	0.0116
17	119.8340	0.4000	3571.9200	591.7602	0.0820	0.0136
18	119.8590	0.4250	4067.4150	687.1849	0.0934	0.0158
19	119.8840	0.4500	4562.9100	795.0046	0.1047	0.0183
20	119.9090	0.4750	5058.4050	915.2179	0.1161	0.0210
21	119.9340	0.5000	5553.9000	1047.8235	0.1275	0.0241
22	119.9590	0.5250	6049.3950	1192.8205	0.1389	0.0274
23	119.9840	0.5500	6544.8900	1350.2085	0.1502	0.0310
24	120.0090	0.5750	7040.3850	1519.9868	0.1616	0.0349
25	120.0340	0.6000	7535.8800	1702.1550	0.1730	0.0391
26	120.0590	0.6250	8330.8500	1900.4061	0.1912	0.0436
27	120.0840	0.6500	9125.8200	2118.5390	0.2095	0.0486
28	120.1090	0.6750	9920.7900	2356.5524	0.2278	0.0541
29	120.1340	0.7000	10715.7600	2614.4455	0.2460	0.0600
30	120.1590	0.7250	11510.7300	2892.2174	0.2642	0.0664
31	120.1840	0.7500	12305.7000	3189.8674	0.2825	0.0732
32	120.2090	0.7750	13100.6700	3507.3952	0.3007	0.0805
33	120.2340	0.8000	13895.6400	3844.8003	0.3190	0.0883
34	120.2465	0.8125	14298.5700	4021.0081	0.3282	0.0923
35	120.2590	0.8250	14701.5000	4202.2527	0.3375	0.0965
36	120.2715	0.8375	15104.4300	4388.5341	0.3468	0.1007
37	120.2840	0.8500	15507.3600	4579.8523	0.3560	0.1051
38	120.2965	0.8625	15910.2900	4776.2072	0.3653	0.1096
39	120.3090	0.8750	16313.2200	4977.5989	0.3745	0.1143
40	120.3215	0.8875	16716.1500	5184.0274	0.3838	0.1190
41	120.3340	0.9000	17119.0800	5395.4925	0.3930	0.1239
42	126.4600	7.0260	17119.0800	110266.9766	0.3930	2.5314

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| Variable storage data for node | A-7
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	117.9000	0.0000	4.3560	0.0000	0.0001	0.0000
2	117.9250	0.0250	150.8265	1.5068	0.0035	0.0000
3	117.9500	0.0500	297.2970	7.0058	0.0068	0.0002
4	117.9750	0.0750	443.7675	16.2082	0.0102	0.0004
5	118.0000	0.1000	590.2380	29.0898	0.0135	0.0007
6	118.0250	0.1250	736.7085	45.6428	0.0169	0.0010
7	118.0500	0.1500	883.1790	65.8638	0.0203	0.0015
8	118.0750	0.1750	1029.6495	89.7507	0.0236	0.0021
9	118.1000	0.2000	1176.1200	117.3026	0.0270	0.0027
10	118.1250	0.2250	1475.5950	150.3783	0.0339	0.0035
11	118.1500	0.2500	1775.0700	190.9540	0.0408	0.0044
12	118.1750	0.2750	2074.5450	239.0256	0.0476	0.0055
13	118.2000	0.3000	2374.0200	294.5906	0.0545	0.0068
14	118.2250	0.3250	2673.4950	357.6475	0.0614	0.0082
15	118.2500	0.3500	2972.9700	428.1952	0.0683	0.0098
16	118.2750	0.3750	3272.4450	506.2330	0.0751	0.0116
17	118.3000	0.4000	3571.9200	591.7602	0.0820	0.0136
18	118.3250	0.4250	4067.4150	687.1849	0.0934	0.0158
19	118.3500	0.4500	4562.9100	795.0046	0.1047	0.0183
20	118.3750	0.4750	5058.4050	915.2179	0.1161	0.0210
21	118.4000	0.5000	5553.9000	1047.8235	0.1275	0.0241
22	118.4250	0.5250	6049.3950	1192.8205	0.1389	0.0274
23	118.4500	0.5500	6544.8900	1350.2085	0.1502	0.0310
24	118.4750	0.5750	7040.3850	1519.9868	0.1616	0.0349
25	118.5000	0.6000	7535.8800	1702.1550	0.1730	0.0391
26	118.5250	0.6250	8330.8500	1900.4061	0.1912	0.0436
27	118.5500	0.6500	9125.8200	2118.5390	0.2095	0.0486
28	118.5750	0.6750	9920.7900	2356.5524	0.2278	0.0541
29	118.6000	0.7000	10715.7600	2614.4455	0.2460	0.0600
30	118.6250	0.7250	11510.7300	2892.2174	0.2642	0.0664
31	118.6500	0.7500	12305.7000	3189.8674	0.2825	0.0732
32	118.6750	0.7750	13100.6700	3507.3952	0.3007	0.0805
33	118.7000	0.8000	13895.6400	3844.8003	0.3190	0.0883
34	118.7250	0.8250	14706.9450	4202.2847	0.3376	0.0965
35	118.7500	0.8500	15518.2500	4580.0542	0.3563	0.1051
36	118.7750	0.8750	16329.5550	4978.1087	0.3749	0.1143
37	118.8000	0.9000	17140.8600	5396.4479	0.3935	0.1239
38	118.8250	0.9250	17952.1650	5835.0717	0.4121	0.1340
39	118.8500	0.9500	18763.4700	6293.9798	0.4308	0.1445
40	118.8750	0.9750	19574.7750	6773.1721	0.4494	0.1555
41	118.9000	1.0000	20386.0800	7272.6484	0.4680	0.1670
42	118.9175	1.0175	20952.3600	7634.3485	0.4810	0.1753
43	118.9350	1.0350	21518.6400	8005.9587	0.4940	0.1838
44	118.9525	1.0525	22084.9200	8387.4791	0.5070	0.1926
45	118.9700	1.0700	22651.2000	8778.9097	0.5200	0.2015
46	118.9875	1.0875	23217.4800	9180.2505	0.5330	0.2107
47	119.0050	1.1050	23783.7600	9591.5014	0.5460	0.2202
48	119.0225	1.1225	24350.0400	10012.6624	0.5590	0.2299
49	119.0400	1.1400	24916.3200	10443.7336	0.5720	0.2398
50	124.4900	6.5900	24916.3200	146237.6776	0.5720	3.3572

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| Variable storage data for node | A-19
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	115.4130	0.0000	4.3560	0.0000	0.0001	0.0000
2	115.4380	0.0250	150.8265	1.5068	0.0035	0.0000
3	115.4630	0.0500	297.2970	7.0058	0.0068	0.0002
4	115.4880	0.0750	443.7675	16.2082	0.0102	0.0004
5	115.5130	0.1000	590.2380	29.0898	0.0135	0.0007
6	115.5380	0.1250	736.7085	45.6428	0.0169	0.0010
7	115.5630	0.1500	883.1790	65.8638	0.0203	0.0015
8	115.5880	0.1750	1029.6495	89.7507	0.0236	0.0021
9	115.6130	0.2000	1176.1200	117.3026	0.0270	0.0027
10	115.6380	0.2250	1475.5950	150.3783	0.0339	0.0035
11	115.6630	0.2500	1775.0700	190.9540	0.0408	0.0044
12	115.6880	0.2750	2074.5450	239.0256	0.0476	0.0055
13	115.7130	0.3000	2374.0200	294.5906	0.0545	0.0068

14	115.7380	0.3250	2673.4950	357.6475	0.0614	0.0082
15	115.7630	0.3500	2972.9700	428.1952	0.0683	0.0098
16	115.7880	0.3750	3272.4450	506.2330	0.0751	0.0116
17	115.8130	0.4000	3571.9200	591.7602	0.0820	0.0136
18	115.8380	0.4250	4067.4150	687.1849	0.0934	0.0158
19	115.8630	0.4500	4562.9100	795.0046	0.1047	0.0183
20	115.8880	0.4750	5058.4050	915.2179	0.1161	0.0210
21	115.9130	0.5000	5553.9000	1047.8235	0.1275	0.0241
22	115.9380	0.5250	6049.3950	1192.8205	0.1389	0.0274
23	115.9630	0.5500	6544.8900	1350.2085	0.1502	0.0310
24	115.9880	0.5750	7040.3850	1519.9868	0.1616	0.0349
25	116.0130	0.6000	7535.8800	1702.1550	0.1730	0.0391
26	116.0380	0.6250	8330.8500	1900.4061	0.1912	0.0436
27	116.0630	0.6500	9125.8200	2118.5390	0.2095	0.0486
28	116.0880	0.6750	9920.7900	2356.5524	0.2278	0.0541
29	116.1130	0.7000	10715.7600	2614.4455	0.2460	0.0600
30	116.1380	0.7250	11510.7300	2892.2174	0.2642	0.0664
31	116.1630	0.7500	12305.7000	3189.8674	0.2825	0.0732
32	116.1880	0.7750	13100.6700	3507.3952	0.3007	0.0805
33	116.2130	0.8000	13895.6400	3844.8003	0.3190	0.0883
34	116.2380	0.8250	14706.9450	4202.2847	0.3376	0.0965
35	116.2630	0.8500	15518.2500	4580.0542	0.3563	0.1051
36	116.2880	0.8750	16329.5550	4978.1087	0.3749	0.1143
37	116.3130	0.9000	17140.8600	5396.4479	0.3935	0.1239
38	116.3380	0.9250	17952.1650	5835.0717	0.4121	0.1340
39	116.3630	0.9500	18763.4700	6293.9798	0.4308	0.1445
40	116.3880	0.9750	19574.7750	6773.1721	0.4494	0.1555
41	116.4130	1.0000	20386.0800	7272.6484	0.4680	0.1670
42	116.4305	1.0175	20952.3600	7634.3485	0.4810	0.1753
43	116.4480	1.0350	21518.6400	8005.9587	0.4940	0.1838
44	116.4655	1.0525	22084.9200	8387.4791	0.5070	0.1926
45	116.4830	1.0700	22651.2000	8778.9097	0.5200	0.2015
46	116.5005	1.0875	23217.4800	9180.2505	0.5330	0.2107
47	116.5180	1.1050	23783.7600	9591.5014	0.5460	0.2202
48	116.5355	1.1225	24350.0400	10012.6624	0.5590	0.2299
49	116.5530	1.1400	24916.3200	10443.7336	0.5720	0.2398
50	120.9400	5.5270	24916.3200	119751.6294	0.5720	2.7491

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| Variable storage data for node | BF-63
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	123.3000	0.0000	43.5600	0.0000	0.0010	0.0000
2	123.4250	0.1250	86613.6150	3691.6487	1.9884	0.0847
3	123.5500	0.2500	173183.6700	19619.6500	3.9758	0.4504
4	123.6750	0.3750	259753.7250	46496.0798	5.9631	1.0674
5	123.8000	0.5000	346323.7800	84246.4541	7.9505	1.9340
6	123.9250	0.6250	432893.8350	132847.0583	9.9379	3.0497
7	124.0500	0.7500	519463.8900	192287.2744	11.9253	4.4143
8	124.1750	0.8750	606033.9450	262561.4245	13.9126	6.0276
9	124.3000	1.0000	692604.0000	343666.1151	15.9000	7.8895
10	124.4250	1.1250	802429.6500	437021.5647	18.4213	10.0326
11	124.5500	1.2500	912255.3000	544116.0244	20.9425	12.4912
12	124.6750	1.3750	1022080.950	664947.0338	23.4638	15.2651
13	124.8000	1.5000	1131906.600	799512.8876	25.9850	18.3543
14	124.9250	1.6250	1241732.250	947812.3549	28.5062	21.7588
15	125.0500	1.7500	1351557.900	1.109845E+06	31.0275	25.4785
16	125.1750	1.8750	1461383.550	1.285609E+06	33.5487	29.5135
17	125.3000	2.0000	1571209.200	1.475104E+06	36.0700	33.8637
18	129.7000	6.4000	1571209.200	8.388425E+06	36.0700	192.5717

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| Variable storage data for node | POND
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	113.3161	0.0000	43.5600	0.0000	0.0010	0.0000
2	113.5266	0.2105	25302.9150	1852.0325	0.5809	0.0425
3	113.7371	0.4210	50562.2700	9684.5184	1.1607	0.2223
4	113.9476	0.6315	75821.6250	22896.1791	1.7406	0.5256
5	114.1581	0.8419	101080.9800	41450.4831	2.3205	0.9516
6	114.3685	1.0524	126340.3350	65335.7918	2.9004	1.4999
7	114.5790	1.2629	151599.6900	94546.8928	3.4802	2.1705
8	114.7895	1.4734	176859.0450	129080.9984	4.0601	2.9633
9	115.0000	1.6839	202118.4000	168936.4422	4.6400	3.8782
10	115.1250	1.8089	203098.5000	194262.4737	4.6625	4.4597
11	115.2500	1.9339	204078.6000	219711.0179	4.6850	5.0439
12	115.3750	2.0589	205058.7000	245282.0747	4.7075	5.6309
13	115.5000	2.1839	206038.8000	270975.6441	4.7300	6.2207
14	115.6250	2.3089	207018.9000	296791.7261	4.7525	6.8134
15	115.7500	2.4339	207999.0000	322730.3208	4.7750	7.4089
16	115.8750	2.5589	208979.1000	348791.4280	4.7975	8.0071
17	116.0000	2.6839	209959.2000	374975.0479	4.8200	8.6082
18	116.1250	2.8089	210993.7500	401284.5808	4.8438	9.2122
19	116.2500	2.9339	212028.3000	427723.4325	4.8675	9.8192
20	116.3750	3.0589	213062.8500	454291.6032	4.8913	10.4291
21	116.5000	3.1839	214097.4000	480989.0927	4.9150	11.0420
22	116.6250	3.3089	215131.9500	507815.9011	4.9387	11.6578
23	116.7500	3.4339	216166.5000	534772.0284	4.9625	12.2767
24	116.8750	3.5589	217201.0500	561857.4745	4.9863	12.8985
25	117.0000	3.6839	218235.6000	589072.2395	5.0100	13.5232
26	117.1250	3.8089	219270.1500	616416.3234	5.0337	14.1510
27	117.2500	3.9339	220304.7000	643889.7262	5.0575	14.7817
28	117.3750	4.0589	221339.2500	671492.4478	5.0812	15.4153
29	117.5000	4.1839	222373.8000	699224.4883	5.1050	16.0520
30	117.6250	4.3089	223408.3500	727085.8477	5.1288	16.6916
31	117.7500	4.4339	224442.9000	755076.5259	5.1525	17.3342
32	117.8750	4.5589	225477.4500	783196.5230	5.1763	17.9797
33	118.0000	4.6839	226512.0000	811445.8390	5.2000	18.6282
34	118.1250	4.8089	227601.0000	839827.8743	5.2250	19.2798
35	118.2500	4.9339	228690.0000	868346.0347	5.2500	19.9345
36	118.3750	5.0589	229779.0000	897000.3203	5.2750	20.5923
37	118.5000	5.1839	230868.0000	925790.7309	5.3000	21.2532
38	118.6250	5.3089	231957.0000	954717.2668	5.3250	21.9173
39	118.7500	5.4339	233046.0000	983779.9277	5.3500	22.5845
40	118.8750	5.5589	234135.0000	1.012979E+06	5.3750	23.2548
41	119.0000	5.6839	235224.0000	1.042314E+06	5.4000	23.9282
42	119.1250	5.8089	236313.0000	1.071785E+06	5.4250	24.6048
43	119.2500	5.9339	237402.0000	1.101392E+06	5.4500	25.2845
44	119.3750	6.0589	238491.0000	1.131135E+06	5.4750	25.9673
45	119.5000	6.1839	239580.0000	1.161015E+06	5.5000	26.6532
46	119.6250	6.3089	240669.0000	1.191030E+06	5.5250	27.3423
47	119.7500	6.4339	241758.0000	1.221182E+06	5.5500	28.0345
48	119.8750	6.5589	242847.0000	1.251470E+06	5.5750	28.7298
49	120.0000	6.6839	243936.0000	1.281893E+06	5.6000	29.4282
50	120.1250	6.8089	245025.0000	1.312453E+06	5.6250	30.1298
51	120.2500	6.9339	246114.0000	1.343150E+06	5.6500	30.8345
52	120.3750	7.0589	247203.0000	1.373982E+06	5.6750	31.5423
53	120.5000	7.1839	248292.0000	1.404950E+06	5.7000	32.2532
54	120.6250	7.3089	249381.0000	1.436055E+06	5.7250	32.9673
55	120.7500	7.4339	250470.0000	1.467296E+06	5.7500	33.6845
56	120.8750	7.5589	251559.0000	1.498672E+06	5.7750	34.4048
57	121.0000	7.6839	252648.0000	1.530185E+06	5.8000	35.1282
58	121.1250	7.8089	253791.4500	1.561838E+06	5.8262	35.8549
59	121.2500	7.9339	254934.9000	1.593633E+06	5.8525	36.5848

60	121.3750	8.0589	256078.3500	1.625571E+06	5.8788	37.3180
61	121.5000	8.1839	257221.8000	1.657653E+06	5.9050	38.0545
62	121.6250	8.3089	258365.2500	1.689877E+06	5.9312	38.7942
63	121.7500	8.4339	259508.7000	1.722244E+06	5.9575	39.5373
64	121.8750	8.5589	260652.1500	1.754754E+06	5.9837	40.2836
65	122.0000	8.6839	261795.6000	1.787407E+06	6.0100	41.0332

FREE OUTFALL DATA (DATA GROUP I1)
BOUNDARY CONDITION ON DATA GROUP J1

Outfall at Junction....E112-OUT has boundary condition number... 1

INTERNAL CONNECTIVITY INFORMATION

CONDUIT	JUNCTION	JUNCTION
FREE # 1	E112-OUT	BOUNDARY

Boundary Condition Information
Data Groups J1-J4

BC NUMBER.. 1 has no control water surface.

XP Note Field Summary

Table E9 - JUNCTION SUMMARY STATISTICS
The Maximum area is only the area of the node, it does not include the area of the surrounding conduits

Junction Name	Ground Elevation feet	Uppermost PipeCrown Elevation feet	Maximum Junction Elevation feet	Time of Occurence Hr.	Min.	Feet of Surcharge at Max Elevation	Freeboard of node feet	Maximum Junction Area ft^2	Maximum Gutter Depth feet	Maximum Gutter Width feet	Maximum Gutter Velocity ft/s
MH-A3	124.0000	123.7600	121.3275	17	10	0.0000	2.6725	12.5660	0.0000	0.0000	0.0000
A-12	123.1100	123.1100	121.4599	16	15	0.0000	1.6501	12.5660	0.0000	0.0000	0.0000
MH-A5	125.1300	118.0469	120.7940	17	16	2.7471	4.3360	12.5660	0.0000	0.0000	0.0000
A-10	123.8600	123.8600	121.9532	16	15	0.0000	1.9068	12.5660	0.0000	0.0000	0.0000
A-14	123.6800	123.6803	120.8629	17	15	0.0000	2.8171	12.5660	0.0000	0.0000	0.0000
MH-A9	125.7000	125.6999	120.8348	17	19	0.0000	4.8652	12.5660	0.0000	0.0000	0.0000
A-8	124.1600	124.1600	123.4785	16	1	0.0000	0.6815	12.5660	0.0000	0.0000	0.0000
A-16	122.3400	122.3402	121.8413	16	15	0.0000	0.4987	12.5660	0.0000	0.0000	0.0000
MH-A10	125.5000	118.2271	120.8693	17	20	2.6422	4.6307	12.5660	0.0000	0.0000	0.0000
A-6	126.0500	126.0500	124.9447	16	1	0.0000	1.1053	12.5660	0.0000	0.0000	0.0000
A-21	125.5000	118.3271	120.8898	17	19	2.5627	4.6102	12.5660	0.0000	0.0000	0.0000
A-22	125.5000	118.3271	120.8759	17	20	2.5488	4.6241	12.5660	0.0000	0.0000	0.0000
A-4	125.4100	121.8290	125.6317	16	2	3.8027	0.0000	1435.6869	0.0000	0.0000	0.0000
A-2	126.4600	122.4340	126.4778	16	1	4.0438	0.0000	108.2383	0.0000	0.0000	0.0000
MH-A1	126.5000	122.5570	126.5013	16	1	3.9443	0.0000	5022.9011	0.0000	0.0000	0.0000
A-1	126.5000	122.7610	126.5113	16	1	3.7503	0.0000	5057.0686	0.0000	0.0000	0.0000
MH-A4	123.9400	118.2477	120.1743	17	11	1.9266	3.7657	12.5660	0.0000	0.0000	0.0000
A-13	124.4400	123.9000	120.3116	16	13	0.0000	4.1284	12.5660	0.0000	0.0000	0.0000
A-15	124.4400	124.4400	120.2031	17	10	0.0000	4.2369	12.5660	0.0000	0.0000	0.0000
A-11	124.4400	123.9400	121.7879	16	2	0.0000	2.6521	12.5660	0.0000	0.0000	0.0000
A-17	123.3900	123.3900	120.2797	16	26	0.0000	3.1103	12.5660	0.0000	0.0000	0.0000
A-9	124.5000	124.0000	122.5444	16	2	0.0000	1.9556	12.5660	0.0000	0.0000	0.0000
A-18	121.8100	121.8100	120.6677	16	17	0.0000	1.1423	12.5660	0.0000	0.0000	0.0000
A-7	124.4900	124.4900	123.7965	16	2	0.0000	0.6935	12.5660	0.0000	0.0000	0.0000
A-19	120.9400	120.9400	120.8118	16	18	0.0000	0.1282	12.5660	0.0000	0.0000	0.0000
A-5	125.0900	125.0900	124.5937	16	15	0.0000	0.4963	12.5660	0.0000	0.0000	0.0000
A-3	125.5800	125.5800	125.1166	16	3	0.0000	0.4634	12.5660	0.0000	0.0000	0.0000
BF-63	129.7000	126.3000	125.9120	23	6	0.0000	3.7880	1571209.2	0.0000	0.0000	0.0000
MH-A6	129.3050	127.0000	125.8779	22	43	0.0000	3.4271	12.5660	0.0000	0.0000	0.0000
A-23	129.8000	126.6000	125.8142	22	44	0.0000	3.9858	12.5660	0.0000	0.0000	0.0000
MH-A7	129.4000	126.1600	125.8322	22	44	0.0000	3.5678	12.5660	0.0000	0.0000	0.0000
A-24	128.5000	126.5900	125.3679	18	6	0.0000	3.1321	12.5660	0.0000	0.0000	0.0000
MH-A8	128.5000	126.1700	125.3293	18	9	0.0000	3.1707	12.5660	0.0000	0.0000	0.0000
MH-A6A	132.5000	131.6900	130.7818	17	39	0.0000	1.7182	12.5660	0.0000	0.0000	0.0000
A-24A	132.0000	131.6590	129.2897	17	53	0.0000	2.7103	12.5660	0.0000	0.0000	0.0000
MH-A6B	137.0000	136.0000	135.7710	17	11	0.0000	1.2290	12.5660	0.0000	0.0000	0.0000
A-24B	137.1400	134.9800	134.2254	17	19	0.0000	2.9146	12.5660	0.0000	0.0000	0.0000
MH-A7A	128.5000	125.9900	125.8133	22	44	0.0000	2.6867	12.5660	0.0000	0.0000	0.0000
MH-A7B	128.5000	125.9000	124.8054	23	4	0.0000	3.6946	12.5660	0.0000	0.0000	0.0000
E112-01	123.0000	117.3000	119.8679	17	11	2.5679	3.1321	12.5660	0.0000	0.0000	0.0000
E112-00	120.0000	119.4568	115.8114	17	12	0.0000	4.1886	12.5660	0.0000	0.0000	0.0000
POND	122.0000	118.3161	120.8742	17	20	2.5581	1.1258	251551.74	0.0000	0.0000	0.0000
E112-OUT	120.0000	119.2768	115.6311	17	12	0.0000	4.3689	12.5660	0.0000	0.0000	0.0000

Table E10 - CONDUIT SUMMARY STATISTICS
Note: The peak flow may be less than the design flow and the conduit may still surcharge because of the downstream boundary conditions.

* denotes an open conduit that has been overtopped this is a potential source of severe errors

Conduit Name	Design Flow (cfs)	Conduit Design Velocity (ft/s)	Maximum Vertical Depth (in)	Maximum Computed Flow (cfs)	Time of Occurence Hr.	Min.	Maximum Computed Velocity (ft/s)	Time of Occurence Hr.	Min.	Ratio of Max. to Design Flow	Maximum Water Elev at Pipe Ends Upstream (ft)	Dwnstrm (ft)	Ratio d/D US	DS	
L_A-12	95.0191	4.7510	48.0000	132.0634	16	2	6.9473	0	0	1.3899	121.4598	121.3275	1.620	1.707	
L_MH-A3	199.3568	5.6959	60.0000	297.8582	16	15	8.4945	16	15	1.4941	121.3275	120.7940	1.565	1.549	
L_A-14	15.8866	3.2364	30.0000	19.7575	16	16	5.0551	0	0	1.2437	120.8629	120.7942	1.899	2.099	
L_MH-A9	244.4329	5.4318	60.0000	197.6864	18	27	12.1960	0	0	0.8088	120.8348	120.7942	1.577	1.604	
L_A-8	94.9844	4.7492	48.0000	110.5342	16	2	5.5079	16	2	1.1637	123.4783	121.9532	1.787	1.662	
L_MH-A10	244.4408	5.4320	60.0000	-185.862	16	19	5.0278	0	0	-0.7604	120.8693	120.8349	1.528	1.577	
L_A-21	104.8630	4.1945	60.0000	143.1118	16	15	5.7177	16	15	1.3648	120.8898	120.8693	1.513	1.528	
L_A-22	45.4240	3.6147	48.0000	54.6228	16	15	4.3386	16	15	1.2025	120.8759	120.8693	1.637	1.661	
L_A-4	63.6266	4.2418	36.0000	70.3024	16	2	4.6585	16	2	1.1049	125.6317	124.9447	2.268	2.302	
L_A-2	47.9470	3.9956	36.0000	29.6148	16	2	2.4558	16	2	0.6177	126.4777	125.6317	2.348	2.268	
L_MH-A1	8.7485	2.7847	24.0000	11.5825	16	2	3.9740	0	0	1.3239	126.5013	126.4778	2.972	3.022	
L_A-1	8.7606	2.7886	24.0000	12.1174	16	2	3.8182	16	2	1.3832	126.5113	126.5046	2.875	2.974	
L_A-13	79.9798	4.4433	36.0000	117.5151	16	15	7.2931	0	0	1.4693	120.3116	120.1743	1.554	1.642	
L_A-15	64.0997	4.2733	36.0000	84.4425	16	22	7.3925	0	0	1.3174	120.2031	120.1743	2.147	2.203	
L_A-7	47.9248	3.9937	36.0000	57.2409	16	3	4.7521	16	3	1.1944	123.7971	122.5444	1.966	1.848	
L_MH-A6B	22.7915	1.4245	24.0000	17.1754	17	11	1.1991	17	11	0.7536	135.7710	130.7818	0.886	1.046	*
L_A-24B	22.7828	1.4239	24.0000	7.7282	17	19	0.8820	16	51	0.3392	134.2254	129.2897	0.623	0.815	
L_MH-A6A	79.9856	2.4238	36.0000	33.7796	17	39	1.8168	17	12	0.4223	130.7818	125.8779	0.697	0.959	
L_A-24A	147.0745	2.6263	48.0000	17.2038	17	53	1.2875	15	18	0.1170	129.2897	125.3679	0.408	0.694	
L_BF-63	38.4550	5.4403	36.0000	9.6940	26	36	-1.8254	16	49	0.2521	125.9120	125.8779	0.871	0.959	

L_MH-A6	164.8066	2.9430	48.0000	34.9665	22	18	1.9162	15	43	0.2122	125.8779	125.8142	0.719	0.804
L_A-23	181.5907	5.6747	48.0000	34.9558	22	23	1.4440	15	59	0.1925	125.8142	125.8322	0.804	0.918
L_A-24	160.0349	5.0011	48.0000	32.4622	17	16	1.5388	14	25	0.2028	125.3679	125.3293	0.694	0.790
L_MH-A7	120.3306	2.1488	48.0000	34.9484	22	28	1.2672	15	0	0.2904	125.8322	125.8133	0.918	0.956
L_MH-A7A	15.0171	2.5029	24.0000	34.9448	22	34	5.8037	22	34	2.3270	125.8133	124.8054	1.912	1.453
L_MH-A7B	106.8324	1.9077	48.0000	34.9137	23	4	1.7192	23	5	0.3268	124.8054	121.3275	0.726	0.392
L_MH-A8	46.4247	0.8290	48.0000	30.0424	18	9	1.3193	18	10	0.6471	125.3293	122.8515	0.790	0.288
L_MH-A5	244.4561	5.4324	60.0000	338.2225	17	42	7.4967	17	42	1.3836	120.7942	120.1744	1.604	1.551
L_MH-A4	244.4667	5.4326	60.0000	388.7495	17	12	13.4092	0	0	1.5902	120.1743	119.8679	1.551	1.514
L_E112-01	278.3141	5.5663	60.0000	388.7500	17	12	7.7628	17	12	1.3968	119.8679	115.8114	1.514	1.071
L_POND	244.4109	5.4314	60.0000	-380.037	16	17	-9.1031	16	15	-1.5549	120.8742	120.8693	1.512	1.528
L_E112-OUT	1249.055	3.7509	108.0000	388.7476	17	12	2.7856	17	12	0.3112	115.8114	115.6311	0.595	0.595
A-10 RCB	94.9790	4.7490	48.0000	121.7804	16	2	6.0706	16	2	1.2822	121.9531	121.4599	1.662	1.620
A-10 OL	68.5614	3.6085	6.0000	0.0000	0	0	0.0000	0	0	0.0000	121.4599	121.4599	.0000	.0000
A-16 RCB	8.7611	2.7888	24.0000	14.6162	16	16	5.0209	0	0	1.6683	121.8413	120.8629	2.350	2.123
A-16 OL	72.1149	3.7955	6.0000	0.0000	0	0	0.0000	0	0	0.0000	121.8413	121.8413	.0000	.0000
A-6 RCB	63.5919	4.2395	36.0000	85.0933	16	2	6.4735	0	0	1.3381	124.9449	123.4785	2.302	2.050
A-6 OL	73.5683	3.8720	6.0000	0.0000	0	0	0.0000	0	0	0.0000	123.4785	123.4785	.0000	.0000
A-11 RCB	63.6154	4.2410	36.0000	86.5796	16	4	5.7549	16	4	1.3610	121.7879	120.3116	1.783	1.554
A-11 OL	10.1765	0.5356	6.0000	0.0000	0	0	0.0000	0	0	0.0000	120.3116	120.3116	.0000	.0000
A-17 RCB	63.6429	4.2429	36.0000	63.3636	16	22	4.2060	16	22	0.9956	120.2800	120.2031	1.972	2.147
A-17 OL	59.7395	3.1442	6.0000	0.0000	0	0	0.0000	0	0	0.0000	120.2800	120.2800	.0000	.0000
A-9 RCB	63.6000	4.2400	36.0000	72.5187	16	4	4.8172	16	4	1.1402	122.5447	121.7882	1.848	1.783
A-9 OL	14.7454	0.7761	6.0000	0.0000	0	0	0.0000	0	0	0.0000	121.7882	121.7882	.0000	.0000
A-18 RCB	47.9544	3.9962	36.0000	43.8872	16	22	3.7240	0	0	0.9152	120.6677	120.2797	1.877	1.972
A-18 OL	69.0801	3.6358	6.0000	0.0000	0	0	0.0000	0	0	0.0000	120.6677	120.6677	.0000	.0000
A-19 RCP	25.8341	3.6548	36.0000	21.1344	16	26	3.2432	0	0	0.8181	120.8118	120.6677	1.800	1.877
A-19 OL	68.7538	3.6186	6.0000	0.0000	0	0	0.0000	0	0	0.0000	120.8118	120.6677	.0000	.0000
A-5 RCP	25.8421	3.6559	36.0000	34.6680	16	21	6.6975	0	0	1.3415	124.5937	123.7965	2.031	1.965
A-5 OL	45.1530	2.3765	6.0000	0.0051	16	15	0.0633	16	15	0.0001	124.5937	123.9902	.0074	.0004
A-3 RCP	15.8836	3.2358	30.0000	16.3929	16	21	3.3159	16	21	1.0321	125.1166	124.5937	2.147	2.237
A-3 OL	36.4774	1.9199	6.0000	0.2340	16	3	0.2615	16	3	0.0064	125.1166	124.5977	0.073	0.015
FREE # 1	Undefnd	Undefnd	Undefn	388.7476	17	12								

Table E15 - SPREADSHEET INFO LIST
Conduit Flow and Junction Depth Information for use in spreadsheets. The maximum values in this table are the true maximum values because they sample every time step. The values in the review results may only be the maximum of a subset of all the time steps in the run.
Note: These flows are only the flows in a single barrel.

Conduit Name	Maximum Flow (cfs)	Total Flow (ft^3)	Maximum Velocity (ft/s)	Maximum Volume (ft^3)	##	Junction Name	Invert Elevation (ft)	Maximum Elevation (ft)
L_A-12	132.0634	704360.6097	6.9473	6430.5172	##	MH-A3	113.5000	121.3275
L_MH-A3	297.8582	6523309.553	8.4945	10621.8521	##	A-12	114.9790	121.4599
L_A-14	19.7575	100517.5778	5.0551	1952.7702	##	MH-A5	112.7749	120.7940
L_MH-A9	197.6864	2759824.779	12.1960	6625.3033	##	A-10	115.3040	121.9532
L_A-8	110.5342	561755.2255	5.5079	13712.1575	##	A-14	116.1163	120.8629
L_MH-A10	-185.8616	1399173.336	5.0278	10390.9387	##	MH-A9	112.9509	120.8348
L_A-21	143.1118	775039.6265	5.7177	2516.9748	##	A-8	116.3290	123.4785
L_A-22	54.6228	225845.8562	4.3386	1317.3626	##	A-16	117.1412	121.8413
L_A-4	70.3024	338343.4998	4.6585	7937.2287	##	MH-A10	113.2271	120.8693
L_A-2	29.6148	119494.4829	2.4558	4868.6587	##	A-6	118.0400	124.9447
L_MH-A1	11.5825	30640.6823	3.9740	270.8718	##	A-21	113.3271	120.8898
L_A-1	12.1174	30512.4739	3.8182	448.0054	##	A-22	113.3271	120.8759
L_A-13	117.5151	679639.6007	7.2931	4822.7079	##	A-4	118.8290	125.6317
L_A-15	84.4425	420411.7770	7.3925	1944.7559	##	A-2	119.4340	126.4778
L_A-7	57.2409	334588.5154	4.7521	7234.2330	##	MH-A1	120.5570	126.5013
L_MH-A6B	17.1754	377326.3788	1.1991	30065.9257	##	A-1	120.7610	126.5113
L_A-24B	7.7282	244941.0037	0.8820	14727.9384	##	MH-A4	112.4217	120.1743
L_MH-A6A	33.7796	970674.2618	1.8168	30232.6297	##	A-13	115.6510	120.3116
L_A-24A	17.2038	675357.5756	1.2875	36492.4037	##	A-15	113.7630	120.2031
L_BF-63	9.6940	2471940.779	-1.8254	1827.1630	##	A-11	116.4380	121.7879
L_MH-A6	34.9665	3788791.273	1.9162	7368.3143	##	A-17	114.3630	120.2797
L_A-23	34.9558	3781948.571	1.4440	7211.5880	##	A-9	117.0000	122.5444
L_A-24	32.4622	1071907.131	1.5388	7641.6924	##	A-18	115.0380	120.6677
L_MH-A7	34.9484	3774522.544	1.2672	8587.4113	##	A-7	117.9000	123.7965
L_MH-A7A	34.9448	3770181.306	5.8037	573.6377	##	A-19	115.4130	120.8118
L_MH-A7B	34.9137	3703312.789	1.7192	33636.8028	##	A-5	118.5000	124.5937
L_MH-A8	30.0424	1043892.718	1.3193	61747.2448	##	A-3	119.7500	125.1166
L_MH-A5	338.2225	9385727.545	7.4967	13324.0171	##	BF-63	123.3000	125.9120
L_MH-A4	388.7495	10489004.36	13.4092	4597.3043	##	MH-A6	123.0000	125.8779
L_E112-01	388.7500	10483489.77	7.7628	77251.8336	##	A-23	122.6000	125.8142
L_POND	-380.0368	395958.1171	-9.1031	3365.3997	##	MH-A7	122.1600	125.8322
L_E112-OUT	388.7476	10471139.64	2.7856	20933.2616	##	A-24	122.5900	125.3679
A-10 RCB	121.7804	632544.1527	6.0706	4350.6441	##	MH-A8	122.1700	125.3293
A-10 OL	0.0000	0.0000	0.0000	0.0022	##	MH-A6A	128.6900	130.7818
A-16 RCB	14.6162	69705.3675	5.0209	1142.0678	##	A-24A	127.6590	129.2897
A-16 OL	0.0000	0.0000	0.0000	0.0039	##	MH-A6B	134.0000	135.7710
A-6 RCB	85.0933	421572.9147	6.4735	7151.4225	##	A-24B	132.9800	134.2254
A-6 OL	0.0000	0.0000	0.0000	0.0047	##	MH-A7A	121.9900	125.8133
A-11 RCB	86.5796	511287.9062	5.7549	7909.6003	##	MH-A7B	121.9000	124.8054

A-11 OL	0.0000	0.0000	0.0000	0.0052	##	E112-01	112.3000	119.8679
A-17 RCB	63.3636	302970.4492	4.2060	6028.2005	##	E112-00	110.4568	115.8114
A-17 OL	0.0000	0.0000	0.0000	0.0040	##	POND	113.3161	120.8742
A-9 RCB	72.5187	426043.4698	4.8172	5651.2790	##	E112-OUT	110.2768	115.6311
A-9 OL	0.0000	0.0000	0.0000	0.0037	##			
A-18 RCB	43.8872	193738.6662	3.7240	5422.3314	##			
A-18 OL	0.0000	0.0000	0.0000	0.0045	##			
A-19 RCP	21.1344	79468.6058	3.2432	1852.2596	##			
A-19 OL	0.0000	0.0000	0.0000	503.5224	##			
A-5 RCP	34.6680	189384.4925	6.6975	2955.1400	##			
A-5 OL	0.0051	0.8366	0.0633	0.0070	##			
A-3 RCP	16.3929	70556.9486	3.3159	2535.0725	##			
A-3 OL	0.2340	105.4591	0.2615	6.0573	##			
FREE # 1	388.7476	10471307.55	0.0000	0.0000	##			

==
| Table E15a - SPREADSHEET REACH LIST |
| Peak flow and Total Flow listed by Reach or those |
| conduits or diversions having the same |
| upstream and downstream nodes. |
==

Upstream Node	Downstream Node	Maximum Flow (cfs)	Total Flow (ft^3)
A-12	MH-A3	132.0634	704360.610
MH-A3	MH-A5	297.8582	6523309.55
A-14	MH-A5	19.7575	100517.578
MH-A9	MH-A5	197.6864	2759824.78
A-8	A-10	110.5342	561755.226
MH-A10	MH-A9	-185.8616	1399173.34
A-21	MH-A10	143.1118	775039.626
A-22	MH-A10	54.6228	225845.856
A-4	A-6	70.3024	338343.500
A-2	A-4	29.6148	119494.483
MH-A1	A-2	11.5825	30640.6823
A-1	MH-A1	12.1174	30512.4739
A-13	MH-A4	117.5151	679639.601
A-15	MH-A4	84.4425	420411.777
A-7	A-9	57.2409	334588.515
MH-A6B	MH-A6A	17.1754	377326.379
A-24B	A-24A	7.7282	244941.004
MH-A6A	MH-A6	33.7796	970674.262
A-24A	A-24	17.2038	675357.576
BF-63	MH-A6	29.0820	2471940.78
MH-A6	A-23	34.9665	3788791.27
A-23	MH-A7	34.9558	3781948.57
A-24	MH-A8	32.4622	1071907.13
MH-A7	MH-A7A	34.9484	3774522.54
MH-A7A	MH-A7B	34.9448	3770181.31
MH-A7B	MH-A3	34.9137	3703312.79
MH-A8	MH-A9	30.0424	1043892.72
MH-A5	MH-A4	338.2225	9385727.54
MH-A4	E112-01	388.7495	10489004.4
E112-01	E112-00	388.7500	10483489.8
POND	MH-A10	-380.0368	395958.117
E112-00	E112-OUT	388.7476	10471139.6
A-10	A-12	121.7804	632544.153
A-16	A-14	14.6162	69705.3675
A-6	A-8	85.0933	421572.915
A-11	A-13	86.5796	511287.906
A-17	A-15	63.3636	302970.449
A-9	A-11	72.5187	426043.470
A-18	A-17	43.8872	193738.666
A-19	A-18	21.1344	79468.6058
A-5	A-7	34.6680	189385.329
A-3	A-5	16.3929	70662.4078

==
| Table E19 - Junction Inflow & Outflow Listing |

Units are either ft^3 or m^3 depending on the units in your model.

Junction Name	Constant Inflow to Node	User Inflow to Node	Interface Inflow to Node	DWF Inlow to Node	Inflow through Outfall	RNF Layer Inflow to Node	Outflow from Node	Evaporation from Node	Inflow from 2D Layer
MH-A3	0.0000	2.1191E+06	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
A-12	0.0000	68265.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
A-10	0.0000	66861.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
A-14	0.0000	30294.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
MH-A9	0.0000	314087.0650	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
A-8	0.0000	135738.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
A-16	0.0000	69480.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
A-6	0.0000	80712.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
A-21	0.0000	774535.5050	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
A-22	0.0000	225576.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
A-4	0.0000	216261.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
A-2	0.0000	88074.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
A-1	0.0000	30312.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
A-13	0.0000	164466.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
A-15	0.0000	114453.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
A-11	0.0000	81333.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
A-17	0.0000	106110.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
A-9	0.0000	87786.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
A-18	0.0000	112266.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
A-7	0.0000	142510.5050	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
A-19	0.0000	78714.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
A-5	0.0000	117495.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
A-3	0.0000	68976.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
BF-63	0.0000	4.5286E+06	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
MH-A6	0.0000	390019.8650	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
A-24	0.0000	410828.0450	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
MH-A6A	0.0000	599666.8550	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
A-24A	0.0000	439876.1300	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
MH-A6B	0.0000	379076.0550	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
A-24B	0.0000	248886.5100	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
POND	0.0000	333252.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
E112-OUT	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	10.4713E+06	0.0000	

Table E20 - Junction Flooding and Volume Listing. The maximum volume is the total volume in the node including the volume in the flooded storage area. This is the max volume at any time. The volume in the flooded storage area is the total volume above the ground elevation, where the flooded pond storage area starts. The fourth column is instantaneous, the fifth is the sum of the flooded volume over the entire simulation. Units are either ft^3 or m^3 depending on the units.

Junction Name	Surcharged Time (min)	Flooded Time(min)	Out of 1D-System (Flooded Volume)	Maximum Volume	Passed to 2D cell OR Volume Stored in allowed Flood Pond of 1D-System
MH-A3	0.0000	0.0000	0.0000	98.3598	0.0000
A-12	0.0000	0.0000	0.0000	81.4385	0.0000
MH-A5	185.9000	0.0000	0.0000	100.7703	0.0000
A-10	0.0000	0.0000	0.0000	83.5535	0.0000
A-14	0.0000	0.0000	0.0000	59.6455	0.0000
MH-A9	0.0000	0.0000	0.0000	99.0709	0.0000
A-8	0.0000	0.0000	0.0000	89.8377	0.0000
A-16	0.0000	0.0000	0.0000	59.0608	0.0000
MH-A10	184.5833	0.0000	0.0000	96.0316	0.0000
A-6	0.0000	0.0000	0.0000	86.7667	0.0000
A-21	181.6333	0.0000	0.0000	95.0328	0.0000
A-22	181.5000	0.0000	0.0000	94.8582	0.0000
A-4	67.5000	0.9833	0.0000	228.2497	147.8804
A-2	40.8833	0.0333	0.0000	89.0825	3.0586
MH-A1	38.1000	0.0750	0.0000	97.5809	2.0424
A-1	35.2000	0.8667	0.0000	129.1849	27.0193
MH-A4	159.6500	0.0000	0.0000	97.4204	0.0000
A-13	0.0000	0.0000	0.0000	58.5650	0.0000

A-15	0.0000	0.0000	0.0000	80.9265	0.0000
A-11	0.0000	0.0000	0.0000	67.2305	0.0000
A-17	0.0000	0.0000	0.0000	74.3531	0.0000
A-9	0.0000	0.0000	0.0000	69.6746	0.0000
A-18	0.0000	0.0000	0.0000	70.7432	0.0000
A-7	0.0000	0.0000	0.0000	74.1033	0.0000
A-19	0.0000	0.0000	0.0000	67.8414	0.0000
A-5	0.0000	0.0000	0.0000	76.5733	0.0000
A-3	0.0000	0.0000	0.0000	67.4362	0.0000
BF-63	0.0000	0.0000	0.0000	2436692.934	0.0000
MH-A6	0.0000	0.0000	0.0000	36.1643	0.0000
A-23	0.0000	0.0000	0.0000	40.3895	0.0000
MH-A7	0.0000	0.0000	0.0000	46.1447	0.0000
A-24	0.0000	0.0000	0.0000	34.9071	0.0000
MH-A8	0.0000	0.0000	0.0000	39.7000	0.0000
MH-A6A	0.0000	0.0000	0.0000	26.2854	0.0000
A-24A	0.0000	0.0000	0.0000	20.4918	0.0000
MH-A6B	0.0000	0.0000	0.0000	22.2545	0.0000
A-24B	0.0000	0.0000	0.0000	15.6493	0.0000
MH-A7A	0.0000	0.0000	0.0000	48.0440	0.0000
MH-A7B	0.0000	0.0000	0.0000	36.5098	0.0000
E112-01	195.9167	0.0000	0.0000	95.0988	0.0000
E112-00	0.0000	0.0000	0.0000	67.2857	0.0000
POND	161.9667	0.0000	0.0000	1498462.609	0.0000
E112-OUT	0.0000	0.0000	0.0000	67.2825	0.0000

==================================
| Simulation Specific Information |
==================================

Number of Input Conduits.....	52	Number of Simulated Conduits.....	53
Number of Natural Channels.....	0	Number of Junctions.....	43
Number of Storage Junctions.....	9	Number of Weirs.....	0
Number of Orifices.....	0	Number of Pumps.....	0
Number of Free Outfalls.....	1	Number of Tide Gate Outfalls.....	0

==
| Average % Change in Junction or Conduit is defined as: |
| Conduit % Change ==> 100.0 (Q(n+1) - Q(n)) / Qfull |
| Junction % Change ==> 100.0 (Y(n+1) - Y(n)) / Yfull |
==

The Conduit with the largest average change was..L_MH-A4   with   0.733 percent
The Junction with the largest average change was.A-10   with   0.017 percent
The Conduit with the largest sinuosity was.......L_MH-A1   with   12.663

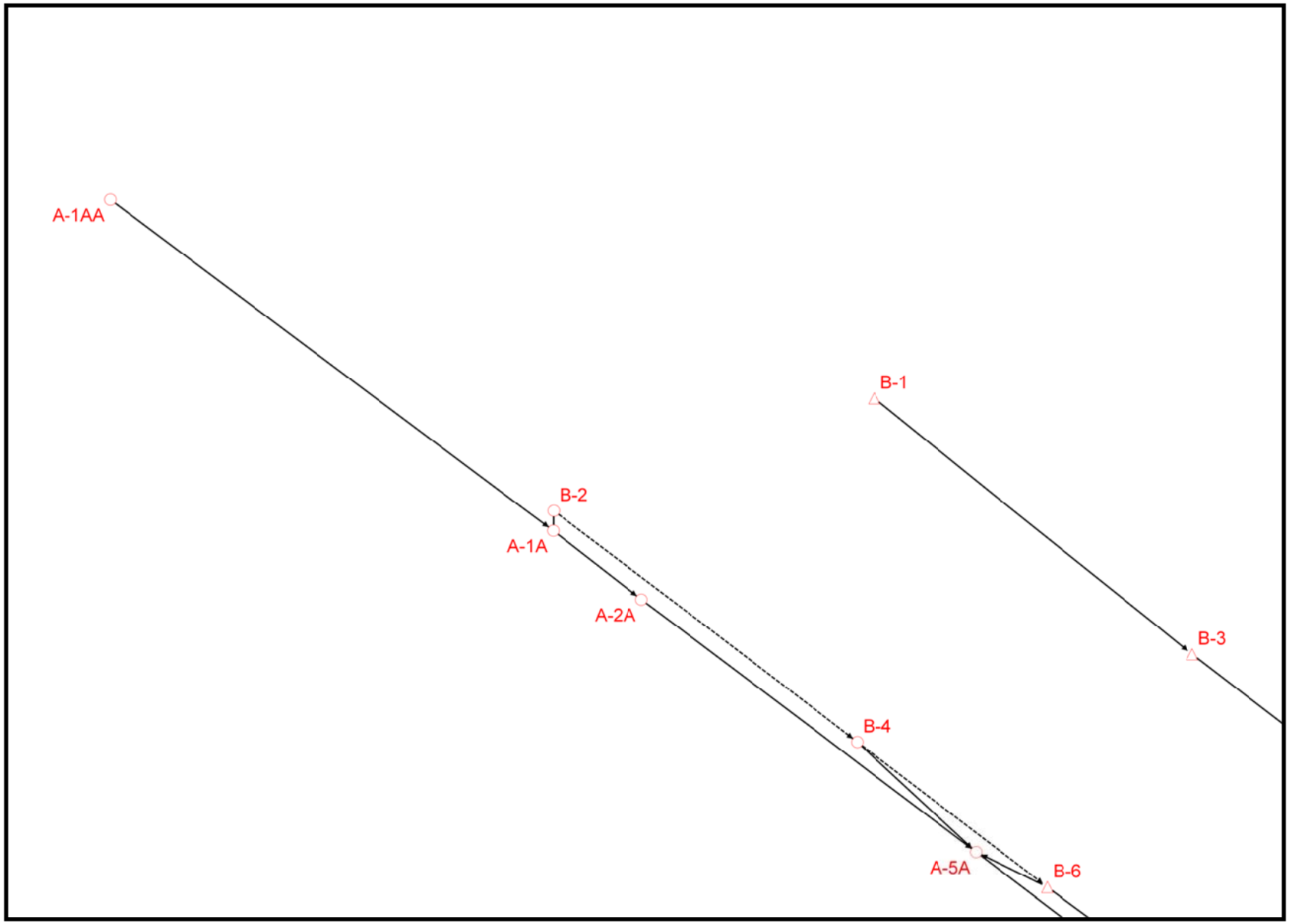
==
| Table E21. Continuity balance at the end of the simulation |
| Junction Inflow, Outflow or Street Flooding |
| Error = Inflow + Initial Volume - Outflow - Final   Volume |
==

Inflow Junction	Inflow Volume,ft^3	Average Inflow, cfs
MH-A3	2.11910E+06	12.2633
A-12	68264.9857	0.3951
A-10	66860.9561	0.3869
A-14	30294.0101	0.1753
MH-A9	314087.0472	1.8176
A-8	135737.9437	0.7855
A-16	69479.9810	0.4021
A-6	80712.0565	0.4671
A-21	774534.8593	4.4823
A-22	225575.6079	1.3054
A-4	216261.1524	1.2515
A-2	88073.9944	0.5097
A-1	30312.0133	0.1754
A-13	164465.8942	0.9518
A-15	114452.9471	0.6623
A-11	81333.0242	0.4707
A-17	106109.9970	0.6141
A-9	87786.0361	0.5080
A-18	112266.0332	0.6497
A-7	142510.4985	0.8247
A-19	78713.9993	0.4555
A-5	117495.0164	0.6799
A-3	68975.9698	0.3992
BF-63	4.52858E+06	26.2070

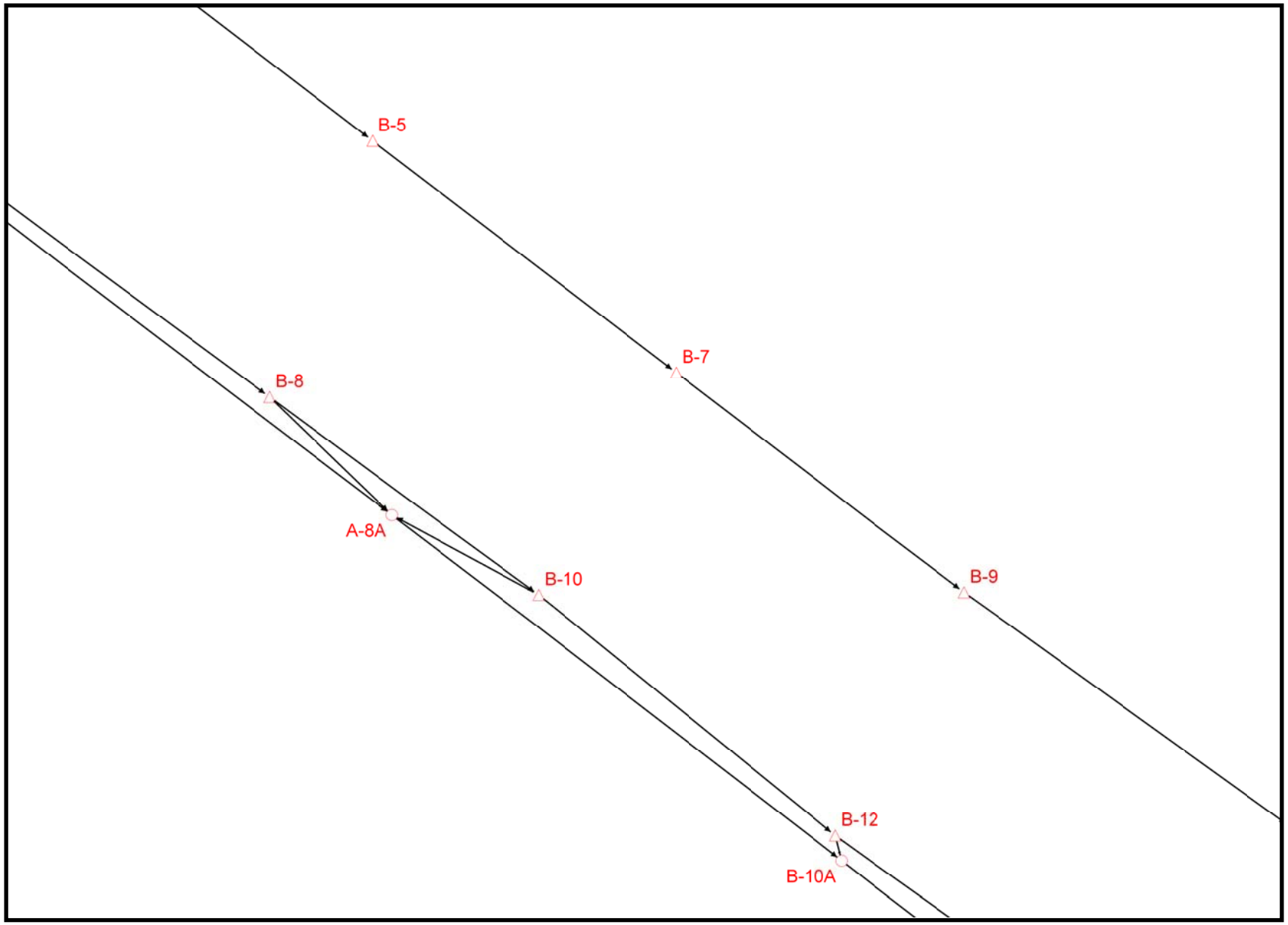
```
          MH-A6   390019.7768         2.2571

           A-24   410828.0117         2.3775

         MH-A6A   599666.8212         3.4703

          A-24A   439876.1170         2.5456

         MH-A6B   379076.0203         2.1937

          A-24B   248886.5008         1.4403

           POND   333251.4205         1.9285

       E112-OUT   -10.471E+06       -60.5978


       Outflow      Outflow          Average
       Junction  Volume,ft^3    Outflow, cfs
---------------  ------------   ------------
       E112-OUT  10.47131E+06        60.5978


*=================================================*

| Initial system volume        =     53297.5992 Cu Ft |

| Total system inflow volume   =  12.623587E+06 Cu Ft |

| Inflow + Initial volume      =  12.676885E+06 Cu Ft |

*=================================================*

| Total system outflow         =  10.471308E+06 Cu Ft |

| Volume left in system        =   2.088537E+06 Cu Ft |

| Evaporation                  =         0.0000 Cu Ft |

| Outflow + Final Volume       =  12.559844E+06 Cu Ft |

*=================================================*


*=============================================*
| Total Model Continuity Error                |
| Error in Continuity, Percent =         0.9218 |
| Error in Continuity, ft^3    =     116851.193 |
| + Error means a continuity loss, - a gain     |
*=============================================*

#####################################################
# Table E22. Numerical Model judgement section    #
#####################################################

Your overall error was                                    0.9218 percent


Worst nodal error was in node BF-63            with       2.7166 percent


Of the total inflow this loss was                         1.5065 percent


Your overall continuity error was                 Excellent


                                                 Excellent Efficiency


Efficiency of the simulation                      1.19


Most Number of Non Convergences at one Node       0.


Total Number Non Convergences at all Nodes        0.


Total Number of Nodes with Non Convergences       0.



===> Hydraulic model simulation ended normally.
===> XP-SWMM Simulation ended normally.


===> Your input file was named  : P:\PROJECTS\290PMC\PhaseII\DRA\Models\SWMM\Segment D\SWMM\Mitigated Conditions\100YR_US290_Mit_SegD_SysA.DAT
===> Your output file was named : P:\PROJECTS\290PMC\PhaseII\DRA\Models\SWMM\Segment D\SWMM\Mitigated Conditions\100YR_US290_Mit_SegD_SysA.out

*============================================================*
|             SWMM Simulation Date and Time Summary          |
*============================================================*
| Starting Date... July       17, 2009  Time...    9:55:12:73  |
|   Ending Date... July       17, 2009  Time...   10: 2:24:20  |
|  Elapsed Time...    7.19117 minutes or    431.47000 seconds  |
*============================================================*
```

OUTFALL 6
SWMM OUTPUT
100 YR- MITIGATED CONDITIONS

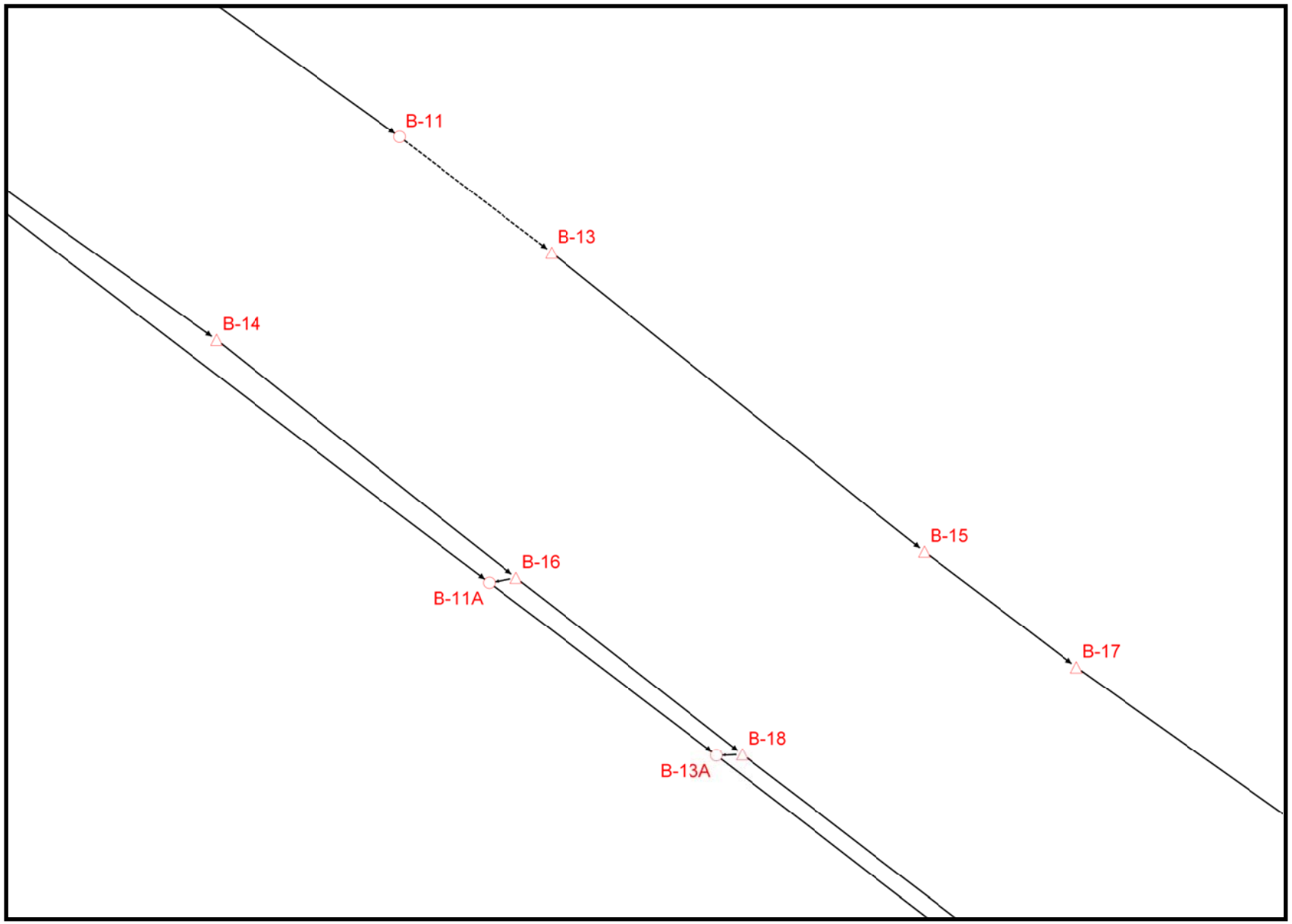
OUTFALL 6
MITIGATED CONDITIONS SWMM LAYOUT



OUTFALL 6
MITIGATED CONDITIONS SWMM LAYOUT



OUTFALL 6
MITIGATED CONDITIONS SWMM LAYOUT



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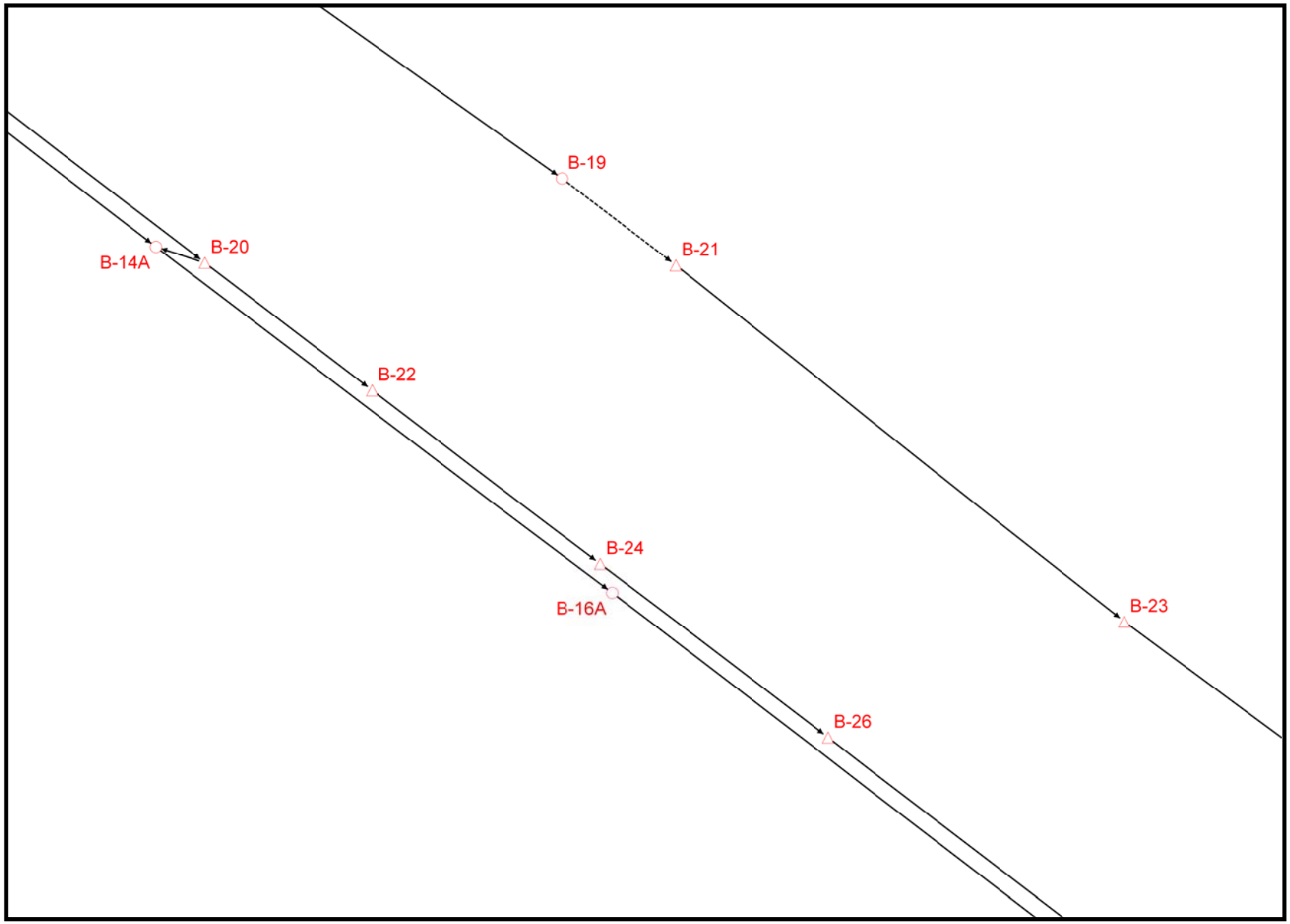

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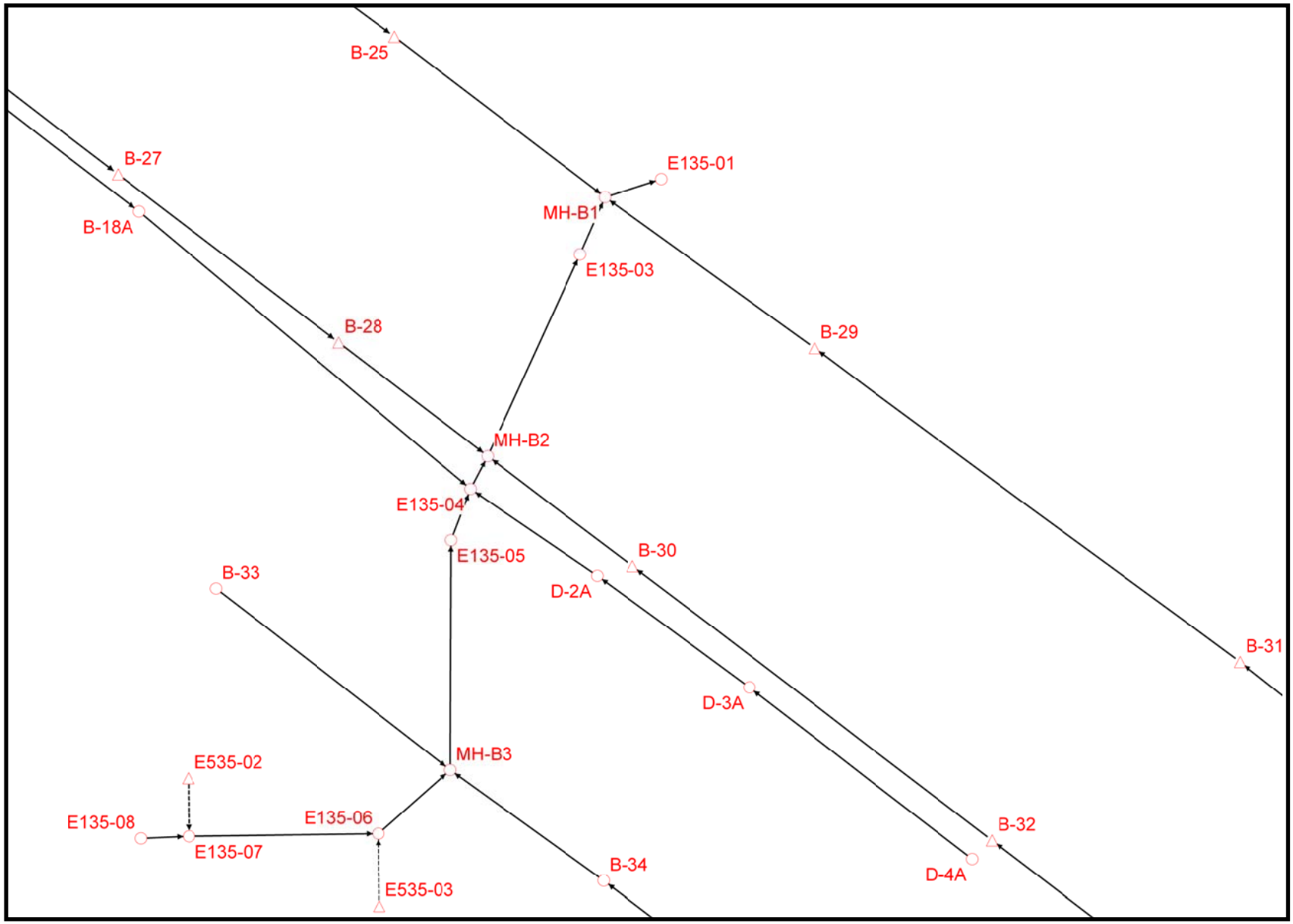
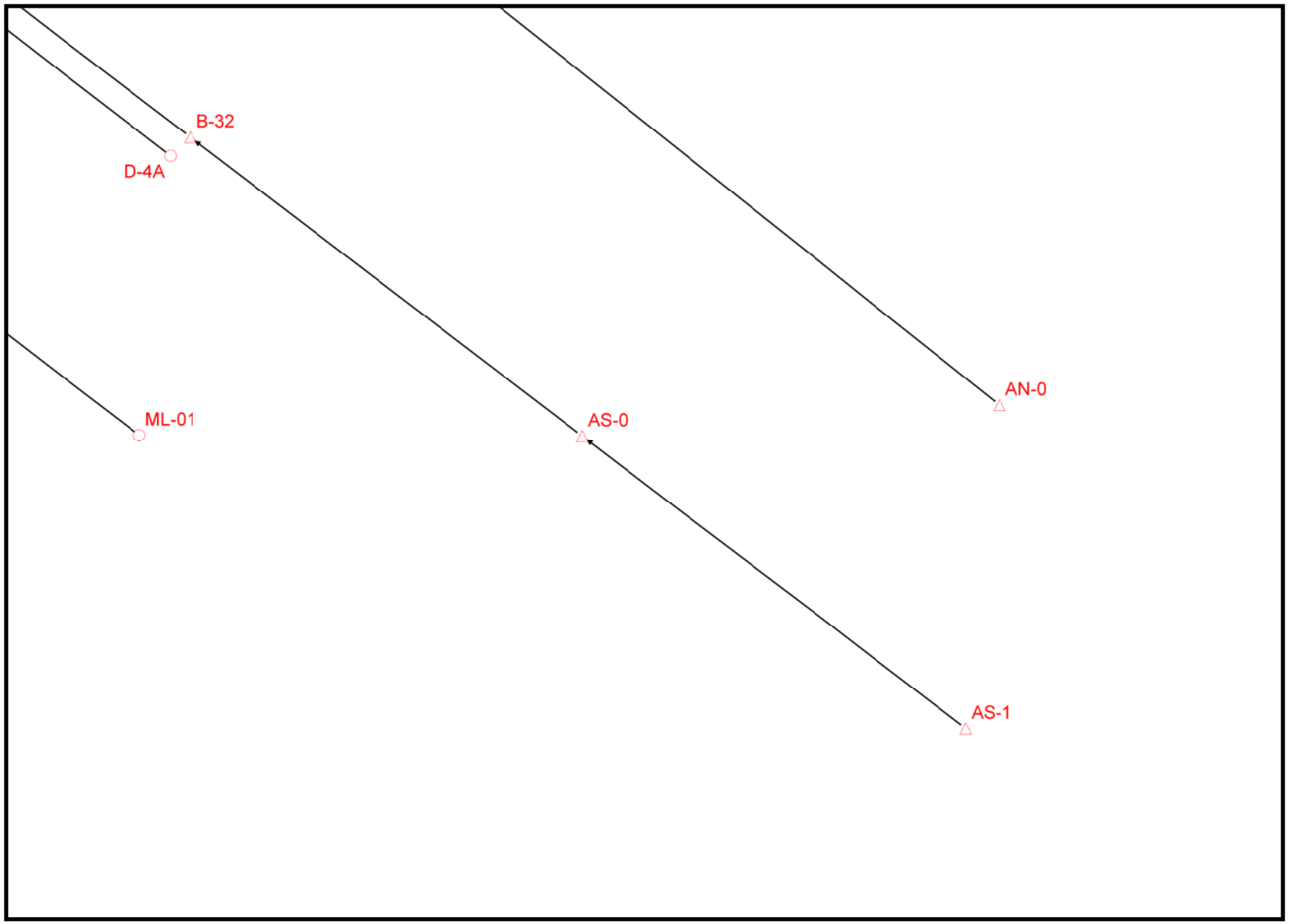


OUTFALL 6
MITIGATED CONDITIONS SWMM LAYOUT



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 Engine Name: C:\XPS\xpstorm\SWMMEN~1.EXE


 Input File : \Segment D\SWMM\Mitigated Conditions\100YR_US290_Mit_SegD_SysB.XP

          *================================================*
          |                     xpswmm                     |
          |     Storm and Wastewater Management Model      |
          |           Interface Version: 10.52             |
          |              Engine Version: 10.54             |
          |================================================|
          |                                                |
          |                 Developed by                   |
          |                                                |
          |                 XP Software                    |
          |                                                |
          |================================================|
          |      XP Software       November, 2006          |
          |       Data File Version --->    11.9           |
          |       Serial Number: 42-xxx-0000               |
          |          XP Software (Evaluation)              |
          *================================================*

Engine Name: C:\XPS\xpstorm\SWMMEN~1.EXE


*=================================================*
|       Input and Output file names by Layer      |
*=================================================*

 Input File  to Layer #     1 JOT.US
 Output File to Layer #     1 JOT.US

*=========================================================*
|   Special command line arguments in XP-SWMM2000. This  |
|   now includes program defaults. $Keywords are the program|
|   defaults.  Other Keywords are from the SWMMCOM.CFG file.|
|   or the command line or any cfg file on the command line.|
|   Examples include these in the file xpswm.bat under the |
|   section :solve or in the windows version XPSWMM32 in the|
|   file solve.bat                                        |
|                                                         |
|   Note: the cfg file should be in the subdirectory swmxp |
|         or defined by the set variable in the xpswm.bat |
|         file.  Some examples of the command lines possible|
|         are shown below:                                |
|                                                         |
|   swmmd swmmcom.cfg                                     |
|   swmmd my.cfg                                          |
|   swmmd nokeys nconv5 perv extranwq                     |
*=========================================================*

 $powerstation                        0.0000         1         2
 $perv                                0.0000         0         4
 $oldegg                              0.0000         0         7
 $as                                  0.0000         0        11
 $noflat                              0.0000         0        21
 $oldomega                            0.0000         0        24
 $oldvol                              0.0000         1        28
 $implicit                            0.0000         1        29
 $oldhot                              0.0000         1        31
 $oldscs                              0.0000         0        33
 $flood                               0.0000         1        40
 $nokeys                              0.0000         0        42
 $pzero                               0.0000         0        55
 $oldvol2                             0.0000         2        59
 $storage2                            0.0000         3        62
 $oldhot1                             0.0000         1        63
 $pumpwt                              0.0000         1        70
 $ecloss                              0.0000         1        77
 $exout                               0.0000         0        97
 SPATIAL=0.55                         0.5500         5       124
 $djref = -1.0                       -0.1000         3       143
 $weirlen = 50                       50.0000         1       153
 $oldbnd                              0.0000         1       154
 $nogrelev                            0.0000         1       161
 $ncmid                               0.0000         0       164
 $new_nl_97                           0.0000         2       290
 $best97                              0.0000         1       294
 $newbound                            0.0000         1       295
 $q_tol = 0.01                        0.0001         1       316
 $new_storage                         0.0000         1       322
 $old_iteration                       0.0000         1       333
 MINLEN=10                           10.0000         1       346
 $review_elevation                    0.0000         1       383
 $use_half_volume                     0.0000         1       385
 $min_ts = 0.5                        0.5000         1       407
 $design_restart = on                 0.0000         1       412
 $zero_value=1.e-05                   0.0000         1       415
 $relax_depth = on                    0.0000         1       427
 $saveallpts = on                     0.0000         1       434

 *=========================================================*
 | Parameter Values on the Tapes Common Block.These are the |
 | values read from the data file and dynamically allocated |
 | by the model for this simulation.                       |
 *=========================================================*

  Number of Subcatchments in the Runoff Block (NW)....     0
  Number of Channel/Pipes in the Runoff Block (NG)....     0
  Runoff Water quality constituents (NRQ).............     0
  Runoff Land Uses per Subcatchment (NLU).............     0
  Number of Elements in the Transport Block (NET).....     0
  Number of Storage Junctions in Transport (NTSE).....     0
  Number of Input Hydrographs in Transport (NTH)......     0
  Number of Elements in the Extran Block (NEE)........    79
  Number of Groundwater Subcatchments in Runoff (NGW).     0
  Number of Interface locations for all Blocks (NIE)..    79
  Number of Pumps in Extran (NEP).....................     0
  Number of Orifices in Extran (NEO)..................     0
  Number of Tide Gates/Free Outfalls in Extran (NTG)..     1
  Number of Extran Weirs (NEW)........................     2
  Number of scs hydrograph points.....................     1
  Number of Extran printout locations (NPO)...........     0
  Number of Tide elements in Extran (NTE).............     1
  Number of Natural channels (NNC)....................     8
  Number of Storage junctions in Extran (NVSE)........    33
  Number of Time history data points in Extran(NTVAL).     5
  Number of Variable storage elements in Extran (NVST)    10
  Number of Input Hydrographs in Extran (NEH).........    50
  Number of Particle sizes in Transport Block (NPS)...     0
  Number of User defined conduits (NHW)...............    79
  Number of Connecting conduits in Extran (NECC)......    20
  Number of Upstream elements in Transport (NTCC).....    10
  Number of Storage/treatment plants (NSTU)...........     1
```

```
 Number of Values for R1 lines in Transport (NR1)....     0
 Number of Nodes to be allowed for (NNOD)............    79
 Number of Plugs in a Storage Treatment Unit.........     1


##########################################################
#    Entry made to the HYDRAULIC Layer(Block) of SWMM #
#    Last Updated June,2005 by XP Software          #

    US 290/ Hempstead Highway Corridor - From W.Little York to Hollister
    Drainage Impact & Mitigation Study - Existing Conditions - SegB_SysA -1


*============================================================*
|        HYDRAULICS TABLES IN THE OUTPUT FILE                |
|  These are the more important tables in the output file.   |
|  You can use your editor to find the table numbers,        |
|  for example: search for Table E20 to check continuity.    |
|  This output file can be imported into a Word Processor    |
|  and printed on US letter or A4 paper using portrait       |
|  mode, courier font, a size of 8 pt. and margins of 0.75   |
|                                                            |
| Table E1   - Basic Conduit Data                            |
| Table E2   - Conduit Factor Data                           |
| Table E3a  - Junction Data                                 |
| Table E3b  - Junction Data                                 |
| Table E4   - Conduit Connectivity Data                     |
| Table E4a  - Dry Weather Flow Data                         |
| Table E4b  - Real Time Control Data                        |
| Table E5   - Junction Time Step Limitation Summary         |
| Table E5a  - Conduit Explicit Condition Summary            |
| Table E6   - Final Model Condition                         |
| Table E7   - Iteration Summary                             |
| Table E8   - Junction Time Step Limitation Summary         |
| Table E9   - Junction  Summary  Statistics                 |
| Table E10  - Conduit   Summary  Statistics                 |
| Table E11  - Area assumptions used in the analysis         |
| Table E12  - Mean conduit information                      |
| Table E13  - Channel losses(H) and culvert info            |
| Table E13a - Culvert Analysis Classification               |
| Table E14  - Natural Channel Overbank Flow Information     |
| Table E14a - Natural Channel Encroachment Information      |
| Table E14b - Floodplain Mapping                            |
| Table E15  - Spreadsheet Info List                         |
| Table E15a - Spreadsheet Reach List                        |
| Table E16  - New Conduit Output Section                    |
| Table E17  - Pump Operation                                |
| Table E18  - Junction Continuity Error                     |
| Table E19  - Junction Inflow & Outflow Listing             |
| Table E20  - Junction Flooding and Volume List             |
| Table E21  - Continuity balance at simulation end          |
| Table E22  - Model Judgement Section                       |
*============================================================*

Time Control from Hydraulics Job Control
Year.........    1995 Month.......       1
Day..........       1 Hour........       0
Minute.......       0 Second......       0


Control information for simulation
----------------------------------

Integration cycles..................    172800
Length of integration step is......      1.00 seconds
Simulation length...................     48.00 hours
Do not create equiv. pipes(NEQUAL).         0
Use U.S. customary units for I/O...         0
Printing starts in cycle...........         1
Intermediate printout intervals of.       500 cycles
Intermediate printout intervals of.      8.33 minutes
Summary printout intervals of......       500 cycles
Summary printout time interval of..      8.33 minutes
Hot start file parameter (REDO)....         0
Initial time.......................      0.00 hours

Iteration variables: Flow Tolerance.   0.00010
                     Head Tolerance.   0.00010
    Minimum depth (m or ft).........   0.00001
    Underrelaxation parameter.......   0.85000
    Time weighting parameter........   0.85000
    Conduit roughness factor........   1.00000
    Flow adjustment factor..........   1.00000
    Initial Condition Smoothing.....         0
    Courant Time Step Factor........   1.00000
    Default Expansion/Contraction K.   0.00000
    Default Entrance/Exit K.........   0.00000
    Routing Method..................   Dynamic Wave
Default surface area of junctions...     12.57 square feet.
Minimum Junction/Conduit Depth......   0.00001 feet.
Ponding Area Coefficient............   5000.00
Ponding Area Exponent...............    1.0000
Minimum Orifice Length..............    500.00 feet.
NJSW input hydrograph junctions.....    50
     or user defined hydrographs....

        Natural Cross-Section information for Channel E135.4
        ====================================================
         Cross-Section ID (from X1 card) :     1.0 Channel sequence number :     1

  Left Overbank Length   :     74.0 ft               Maximum Elevation        :   116.46 ft.
  Main Channel Length    :     74.0 ft               Maximum Depth            :    12.19 ft.
  Right Overbank Length  :     74.0 ft               Maximum Section Area     : 4027.001 ft^2
                                                     Maximum hydraulic radius :     2.09 ft.
  Manning N :      0.040  to Station        4934.6    Max topwidth             :  1924.50 ft.
    "    "  :      0.040  in main Channel             Maximum Wetted Perimeter : 1.93E+03 ft
    "    "  :      0.040  Beyond station    5412.2    Max left bank area       :  2989.31 ft^2
                                                     Max right bank area      :     0.00 ft^2
  Allowable Encroachment Depth :    0.00 ft           Max center channel area  : 1037.686 ft^2

        Natural Cross-Section information for Channel E135.3
        ====================================================
         Cross-Section ID (from X1 card) :     2.0 Channel sequence number :     2

  Left Overbank Length   :    235.0 ft               Maximum Elevation        :   115.10 ft.
  Main Channel Length    :    235.0 ft               Maximum Depth            :    10.83 ft.
  Right Overbank Length  :    235.0 ft               Maximum Section Area     : 617.3736 ft^2
                                                     Maximum hydraulic radius :     5.94 ft.
  Manning N :      0.040  to Station        4934.6    Max topwidth             :   101.12 ft.
    "    "  :      0.040  in main Channel             Maximum Wetted Perimeter : 1.04E+02 ft
    "    "  :      0.040  Beyond station    5412.2    Max left bank area       :     0.00 ft^2
                                                     Max right bank area      :     0.00 ft^2
  Allowable Encroachment Depth :    0.00 ft           Max center channel area  : 617.3736 ft^2

        Natural Cross-Section information for Channel E135.2
        ====================================================
         Cross-Section ID (from X1 card) :     3.0 Channel sequence number :     3
```

```
 Left Overbank Length   :     61.0 ft               Maximum Elevation        :   116.46 ft.
 Main Channel Length    :     61.0 ft               Maximum Depth            :    12.19 ft.
 Right Overbank Length  :     61.0 ft               Maximum Section Area     : 4027.001 ft^2
                                                    Maximum hydraulic radius :     2.09 ft.
 Manning N :      0.040  to Station        4934.6    Max topwidth             :  1924.50 ft.
   "    "  :      0.040  in main Channel             Maximum Wetted Perimeter : 1.93E+03 ft
   "    "  :      0.040  Beyond station    5412.2    Max left bank area       :  2989.31 ft^2
                                                    Max right bank area      :     0.00 ft^2
 Allowable Encroachment Depth :    0.00 ft           Max center channel area  : 1037.686 ft^2

       Natural Cross-Section information for Channel E135.1
       ====================================================
        Cross-Section ID (from X1 card) :     4.0 Channel sequence number :     4

 Left Overbank Length   :    132.0 ft               Maximum Elevation        :   116.69 ft.
 Main Channel Length    :     87.6 ft               Maximum Depth            :    12.55 ft.
 Right Overbank Length  :     57.1 ft               Maximum Section Area     : 3570.681 ft^2
                                                    Maximum hydraulic radius :     1.88 ft.
 Manning N :      0.080  to Station        4934.6    Max topwidth             :  1895.50 ft.
   "    "  :      0.040  in main Channel             Maximum Wetted Perimeter : 1.90E+03 ft
   "    "  :      0.080  Beyond station    5045.4    Max left bank area       :  2212.49 ft^2
                                                    Max right bank area      :   555.97 ft^2
 Allowable Encroachment Depth :    0.00 ft           Max center channel area  : 802.2197 ft^2

       Natural Cross-Section information for Channel E135.8
       ====================================================
        Cross-Section ID (from X1 card) :     5.0 Channel sequence number :     5

 Left Overbank Length   :     50.0 ft               Maximum Elevation        :   117.00 ft.
 Main Channel Length    :     50.0 ft               Maximum Depth            :    10.12 ft.
 Right Overbank Length  :     50.0 ft               Maximum Section Area     : 681.6088 ft^2
                                                    Maximum hydraulic radius :     4.47 ft.
 Manning N :      0.040  to Station        4959.0    Max topwidth             :   149.18 ft.
   "    "  :      0.040  in main Channel             Maximum Wetted Perimeter : 1.52E+02 ft
   "    "  :      0.040  Beyond station    5038.1    Max left bank area       :    83.49 ft^2
                                                    Max right bank area      :    64.00 ft^2
 Allowable Encroachment Depth :    0.00 ft           Max center channel area  : 534.1153 ft^2

       Natural Cross-Section information for Channel E135.4A
       =====================================================
        Cross-Section ID (from X1 card) :     6.0 Channel sequence number :     6

 Left Overbank Length   :     20.0 ft               Maximum Elevation        :   116.46 ft.
 Main Channel Length    :     20.0 ft               Maximum Depth            :    12.19 ft.
 Right Overbank Length  :     20.0 ft               Maximum Section Area     : 4027.001 ft^2
                                                    Maximum hydraulic radius :     2.09 ft.
 Manning N :      0.040  to Station        4934.6    Max topwidth             :  1924.50 ft.
   "    "  :      0.040  in main Channel             Maximum Wetted Perimeter : 1.93E+03 ft
   "    "  :      0.040  Beyond station    5412.2    Max left bank area       :  2989.31 ft^2
                                                    Max right bank area      :     0.00 ft^2
 Allowable Encroachment Depth :    0.00 ft           Max center channel area  : 1037.686 ft^2

       Natural Cross-Section information for Channel E135.7
       ====================================================
        Cross-Section ID (from X1 card) :     7.0 Channel sequence number :     7

 Left Overbank Length   :    198.0 ft               Maximum Elevation        :   117.00 ft.
 Main Channel Length    :    198.0 ft               Maximum Depth            :    10.12 ft.
 Right Overbank Length  :    198.0 ft               Maximum Section Area     : 681.6088 ft^2
                                                    Maximum hydraulic radius :     4.47 ft.
 Manning N :      0.040  to Station        4959.0    Max topwidth             :   149.18 ft.
   "    "  :      0.040  in main Channel             Maximum Wetted Perimeter : 1.52E+02 ft
   "    "  :      0.040  Beyond station    5038.1    Max left bank area       :    83.49 ft^2
                                                    Max right bank area      :    64.00 ft^2
 Allowable Encroachment Depth :    0.00 ft           Max center channel area  : 534.1153 ft^2

       Natural Cross-Section information for Channel E135.6
       ====================================================
        Cross-Section ID (from X1 card) :     8.0 Channel sequence number :     8

 Left Overbank Length   :     43.0 ft               Maximum Elevation        :   117.00 ft.
 Main Channel Length    :     87.0 ft               Maximum Depth            :    10.12 ft.
 Right Overbank Length  :    126.0 ft               Maximum Section Area     : 681.6088 ft^2
                                                    Maximum hydraulic radius :     4.47 ft.
 Manning N :      0.040  to Station        4959.0    Max topwidth             :   149.18 ft.
   "    "  :      0.040  in main Channel             Maximum Wetted Perimeter : 1.52E+02 ft
   "    "  :      0.040  Beyond station    5038.1    Max left bank area       :    83.49 ft^2
                                                    Max right bank area      :    64.00 ft^2
 Allowable Encroachment Depth :    0.00 ft           Max center channel area  : 534.1153 ft^2

*================================================*
|          Table E1 - Conduit Data               |
*================================================*
```

Inp Num	Conduit Name	Length (ft)	Conduit Class	Area (ft^2)	Manning Coef.	Max Width (ft)	Depth (ft)	Trapezoid Side Slopes	
1	L_B-28	195.9410	Rectangle	15.0000	0.0130	5.0000	3.0000		
2	L_B-30	190.4094	Circular	9.6211	0.0130	3.5000	3.5000		
3	L_B-27	290.0000	Rectangle	15.0000	0.0130	5.0000	3.0000		
4	L_B-32	473.6500	Circular	7.0686	0.0130	3.0000	3.0000		
5	L_B-33	310.0080	Rectangle	25.0000	0.0130	5.0000	5.0000		
6	L_B-34	197.7192	Rectangle	20.0000	0.0130	5.0000	4.0000		
7	L_B-26	330.0000	Rectangle	15.0000	0.0130	5.0000	3.0000		
8	L_B-24	300.0000	Rectangle	15.0000	0.0130	5.0000	3.0000		
9	L_B-22	300.0000	Rectangle	12.0000	0.0130	4.0000	3.0000		
10	L_B-20	220.0000	Rectangle	12.0000	0.0130	4.0000	3.0000		
11	L_B-18	330.0000	Rectangle	12.0000	0.0130	4.0000	3.0000		
12	L_B-16	300.0100	Rectangle	12.0000	0.0130	4.0000	3.0000		
13	L_B-14	399.8670	Rectangle	12.0000	0.0130	4.0000	3.0000		
14	L_B-12	350.2060	Rectangle	12.0000	0.0130	4.0000	3.0000		
15	L_B-10	400.1800	Rectangle	12.0000	0.0130	4.0000	3.0000		
16	L_B-8	349.8960	Rectangle	9.0000	0.0130	3.0000	3.0000		
17	L_B-6	349.9830	Circular	7.0686	0.0130	3.0000	3.0000		
18	L_B-25	276.7810	Rectangle	40.0000	0.0130	8.0000	5.0000		
19	L_B-29	270.0580	Rectangle	16.0000	0.0130	4.0000	4.0000		
20	L_B-23	299.3260	Rectangle	40.0000	0.0130	8.0000	5.0000		
21	L_B-31	553.8140	Circular	12.5664	0.0130	4.0000	4.0000		
22	L_B-21	600.1160	Rectangle	40.0000	0.0130	8.0000	5.0000		
23	L_B-17	350.5820	Rectangle	24.0000	0.0130	6.0000	4.0000		
24	L_B-15	200.0040	Rectangle	20.0000	0.0130	5.0000	4.0000		
25	L_B-13	500.1400	Rectangle	20.0000	0.0130	5.0000	4.0000		
26	L_B-9	420.5470	Rectangle	16.0000	0.0130	4.0000	4.0000		
27	L_B-7	380.0000	Rectangle	16.0000	0.0130	4.0000	4.0000		
28	L_B-5	400.0000	Circular	12.5664	0.0130	4.0000	4.0000		
29	L_B-3	299.9710	Circular	9.6211	0.0130	3.5000	3.5000		
30	L_B-1	427.2130	Circular	7.0686	0.0130	3.0000	3.0000		
31	L-A-2A	100.0000	Trapezoid	33.0000	0.0400	2.0000	3.0000	3.0000	3.0000
32	L-A-5A	452.0000	Trapezoid	33.0000	0.0400	2.0000	3.0000	3.0000	3.0000
33	L-A-8A	597.0000	Trapezoid	33.0000	0.0400	2.0000	3.0000	3.0000	3.0000
34	L-B-10A	805.0000	Trapezoid	33.0000	0.0400	2.0000	3.0000	3.0000	3.0000
35	L-B-11A	698.0000	Trapezoid	33.0000	0.0400	2.0000	3.0000	3.0000	3.0000
36	L-B-13A	301.0000	Trapezoid	33.0000	0.0400	2.0000	3.0000	3.0000	3.0000
37	L-B-14A	301.0000	Trapezoid	33.0000	0.0400	2.0000	3.0000	3.0000	3.0000
38	L-B-16A	520.0000	Trapezoid	33.0000	0.0400	2.0000	3.0000	3.0000	3.0000
39	L-B-18A	653.0000	Trapezoid	33.0000	0.0400	2.0000	3.0000	3.0000	3.0000
40	L-D-3A	145.0000	Trapezoid	33.0000	0.0400	2.0000	3.0000	3.0000	3.0000

41	L-D-2A	200.0000	Trapezoid	33.0000	0.0400	2.0000	3.0000	3.0000	3.0000
42	L-E13504.1	160.0000	Trapezoid	33.0000	0.0400	2.0000	3.0000	3.0000	3.0000
43	L-E13504	440.0000	Trapezoid	33.0000	0.0400	2.0000	3.0000	3.0000	3.0000
44	E135.4	74.0000	Natural	4027.0010	0.0400	1924.5000	12.1900		
45	E135.3	235.0000	Natural	617.3736	0.0400	101.1189	10.8300		
46	E135.2	61.0000	Natural	4027.0010	0.0400	1924.5000	12.1900		
47	E135.1	87.6000	Natural	3570.6805	0.0400	1895.5000	12.5500		
48	L-A-1A	590.0000	Trapezoid	33.0000	0.0400	2.0000	3.0000	3.0000	3.0000
49	E135.8	50.0000	Natural	681.6088	0.0400	149.1800	10.1200		
50	E135.4A	20.0000	Natural	4027.0010	0.0400	1924.5000	12.1900		
51	E135.5	270.0000	Rectangle	64.0000	0.0130	8.0000	8.0000		
52	E135.7	198.0000	Natural	681.6088	0.0400	149.1800	10.1200		
53	E135.6	87.0000	Natural	681.6088	0.0400	149.1800	10.1200		
54	L_AN-0	749.8229	Circular	7.0686	0.0130	3.0000	3.0000		
55	L_AS-1	505.0000	Circular	4.9087	0.0130	2.5000	2.5000		
56	L_AS-0	515.0000	Circular	7.0686	0.0130	3.0000	3.0000		
57	Link985	444.2176	Rectangle	16.0000	0.0130	4.0000	4.0000		
58	L_B-20-OF	15.0000	Trapezoid	25.2500	0.0350	50.0000	0.5000	1.0000	1.0000
59	L_B-18-OF	15.0000	Trapezoid	25.2500	0.0350	50.0000	0.5000	1.0000	1.0000
60	L_B-16-OF	15.0000	Trapezoid	25.2500	0.0350	50.0000	0.5000	1.0000	1.0000
61	L_B-12-OF	15.0000	Trapezoid	25.2500	0.0350	50.0000	0.5000	1.0000	1.0000
62	L_B-8-OF	15.0000	Trapezoid	25.2500	0.0350	50.0000	0.5000	1.0000	1.0000
63	L_B-10-OF	15.0000	Trapezoid	25.2500	0.0350	50.0000	0.5000	1.0000	1.0000
64	L_B-6-OF	15.0000	Trapezoid	25.2500	0.0350	50.0000	0.5000	1.0000	1.0000
65	L_B-4-OF	15.0000	Trapezoid	25.2500	0.0350	50.0000	0.5000	1.0000	1.0000
66	L_B-2-OF	15.0000	Trapezoid	25.2500	0.0350	50.0000	0.5000	1.0000	1.0000
67	B-4 RCP	250.0000	Circular	7.0686	0.0130	3.0000	3.0000		
68	B-4 OL	250.0000	Trapezoid	19.0000	0.0150	38.0000	0.5000	0.0000	0.0000
69	B-2 RCP	400.0000	Circular	4.9087	0.0130	2.5000	2.5000		
70	B-2 OL	400.0000	Trapezoid	19.0000	0.0150	38.0000	0.5000	0.0000	0.0000
71	B-19 RCB	149.6240	Rectangle	24.0000	0.0130	6.0000	4.0000		
72	B-19 OL	149.6240	Trapezoid	19.0000	0.0150	38.0000	0.5000	0.0000	0.0000
73	B-11 RCB	199.6240	Rectangle	20.0000	0.0130	5.0000	4.0000		
74	B-11 OL	199.6240	Trapezoid	19.0000	0.0150	38.0000	0.5000	0.0000	0.0000
75	02-RCP	103.0000	Circular	3.1416	0.0240	2.0000	2.0000		
76	03-RCP	145.0000	Circular	3.1416	0.0240	2.0000	2.0000		

Total length of all conduits .... 21906.5581 feet

==========
|Table E2 - Conduit Factor Data|
==========

Conduit Name	Number of Barrels	Entrance Loss Coef	Exit Loss Coef	Exp/Contc Coefficnt	Time Weighting Parameter	Low Flow Roughness Factor	Depth at Which n Changes	Flow Routing
E135.5	2.0000	0.5000	0.5000	0.0000	0.8500	1.0000	0.0000	Standard - Dynamic Wave
02-RCP	1.0000	0.5000	0.5000	0.0000	0.8500	1.0000	0.0000	Standard - Dynamic Wave
03-RCP	1.0000	0.5000	0.5000	0.0000	0.8500	1.0000	0.0000	Standard - Dynamic Wave

==========
| If there are messages about (sqrt(g*d)*dt/dx), or |
| the sqrt(wave celerity)*time step/conduit length |
| in the output file all it means is that the |
| program will lower the internal time step to |
| satisfy this condition (explicit condition). |
| You control the actual internal time step by |
| using the minimum courant time step factor in the |
| HYDRAULICS job control. The message put in words |
| states that the smallest conduit with the fastest |
| velocity will control the time step selection. |
| You have further control by using the modify |
| conduit option in the HYDRAULICS Job Control. |
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Conduit Name	Courant Ratio
L_B-28	0.05
L_B-30	0.06
L_B-27	0.03
L_B-32	0.02
L_B-33	0.04
L_B-34	0.06
L_B-26	0.03
L_B-24	0.03
L_B-22	0.03
L_B-20	0.04
L_B-18	0.03
L_B-16	0.03
L_B-14	0.02
L_B-12	0.03
L_B-10	0.02
L_B-8	0.03
L_B-6	0.03
L_B-25	0.05
L_B-29	0.04
L_B-23	0.04
L_B-31	0.02
L_B-21	0.02
L_B-17	0.03
L_B-15	0.06
L_B-13	0.02
L_B-9	0.03
L_B-7	0.03
L_B-5	0.03
L_B-3	0.04
L_B-1	0.02
L-A-2A	0.07
L-A-5A	0.02
L-A-8A	0.01
L-B-10A	0.01
L-B-11A	0.01
L-B-13A	0.02
L-B-14A	0.02
L-B-16A	0.01
L-B-18A	0.01
L-D-3A	0.05
L-D-2A	0.04
L-E13504.1	0.05
L-E13504	0.02
E135.4	0.11
E135.3	0.06
E135.2	0.13
E135.1	0.09
L-A-1A	0.01
E135.8	0.24
E135.4A	0.41
E135.5	0.06
E135.7	0.06
E135.6	0.14
L_AN-0	0.01
L_AS-1	0.02
L_AS-0	0.02
Link985	0.03
L_B-20-OF	0.27
L_B-18-OF	0.27

L_B-16-OF	0.27
L_B-12-OF	0.27
L_B-8-OF	0.27
L_B-10-OF	0.27
L_B-6-OF	0.27
L_B-4-OF	0.27
L_B-2-OF	0.27
B-4 RCP	0.04
B-4 OL	0.02
B-2 RCP	0.02
B-2 OL	0.01
B-19 RCB	0.08
B-19 OL	0.03
B-11 RCB	0.06
B-11 OL	0.02
02-RCP	0.08
03-RCP	0.06

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| Conduit Volume |
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Full pipe or full open conduit volume
Input full depth volume..... 1.7488E+06 cubic feet

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| Table E3a - Junction Data |
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Inp Num	Junction Name	Ground Elevation	Crown Elevation	Invert Elevation	Qinst cfs	Initial Depth-ft	Interface Flow (%)
1	MH-B2	117.6100	117.6100	105.4200	0.0000	0.0000	100.0000
2	B-28	114.9400	110.4700	107.4700	0.0000	0.0000	100.0000
3	B-30	114.8700	109.9680	106.4680	0.0000	0.0000	100.0000
4	MH-B3	117.1900	116.3560	106.2360	0.0000	0.0000	100.0000
5	B-27	115.4900	110.9050	107.9050	0.0000	0.0000	100.0000
6	B-32	116.2200	110.6780	107.6780	0.0000	0.0000	100.0000
7	B-33	116.9700	113.9600	108.9600	0.0000	0.0000	100.0000
8	B-34	117.2700	113.5980	109.5980	0.0000	0.0000	100.0000
9	B-26	116.1200	111.4000	108.4000	0.0000	0.0000	100.0000
10	B-24	116.3500	111.8500	108.8500	0.0000	0.0000	100.0000
11	B-22	116.5700	112.3000	109.3000	0.0000	0.0000	100.0000
12	B-20	117.7800	117.7800	109.6300	0.0000	0.0000	100.0000
13	B-18	118.2300	118.2300	110.1250	0.0000	0.0000	100.0000
14	B-16	118.5300	118.5300	110.5750	0.0000	0.0000	100.0000
15	B-14	118.0800	114.1750	111.1750	0.0000	0.0000	100.0000
16	B-12	118.8700	118.8700	111.7000	0.0000	0.0000	100.0000
17	B-10	119.5700	119.5700	112.3000	0.0000	0.0000	100.0000
18	B-8	120.1200	120.1200	112.8250	0.0000	0.0000	100.0000
19	B-6	120.4000	120.4000	113.3500	0.0000	0.0000	100.0000
20	B-4	121.7700	121.7700	113.7250	0.0000	0.0000	100.0000
21	B-2	122.6700	122.6700	114.8250	0.0000	0.0000	100.0000
22	MH-B1	118.8300	116.6900	104.1400	0.0000	0.0000	100.0000
23	B-25	113.2700	110.2770	105.2770	0.0000	0.0000	100.0000
24	B-29	113.4300	109.8460	105.8460	0.0000	0.0000	100.0000
25	B-23	112.9000	110.5760	105.5760	0.0000	0.0000	100.0000
26	B-31	113.7000	110.4000	106.4000	0.0000	0.0000	100.0000
27	B-21	114.0500	114.0500	106.1760	0.0000	0.0000	100.0000
28	B-19	115.0900	115.0900	106.3260	0.0000	0.0000	100.0000
29	B-17	115.2600	110.6760	106.6760	0.0000	0.0000	100.0000
30	B-15	115.2600	110.8760	106.8760	0.0000	0.0000	100.0000
31	B-13	116.4000	116.4000	107.3770	0.0000	0.0000	100.0000
32	B-11	117.0000	117.0000	107.5760	0.0000	0.0000	100.0000
33	B-9	116.4000	111.9970	107.9970	0.0000	0.0000	100.0000
34	B-7	116.3800	112.3770	108.3770	0.0000	0.0000	100.0000
35	B-5	116.6200	112.7770	108.7770	0.0000	0.0000	100.0000
36	B-3	116.9900	113.0770	109.5770	0.0000	0.0000	100.0000
37	B-1	118.1500	113.5040	110.5040	0.0000	0.0000	100.0000
38	A-1A	125.0000	125.0000	118.6600	0.0000	0.0000	100.0000
39	A-2A	125.0000	125.0000	118.3000	0.0000	0.0000	100.0000
40	A-5A	125.0000	125.0000	116.9000	0.0000	0.0000	100.0000
41	A-8A	125.0000	125.0000	116.7000	0.0000	0.0000	100.0000
42	B-10A	125.0000	125.0000	115.7000	0.0000	0.0000	100.0000
43	B-11A	125.0000	125.0000	115.6200	0.0000	0.0000	100.0000
44	B-13A	125.0000	125.0000	114.7000	0.0000	0.0000	100.0000
45	B-14A	125.0000	125.0000	114.3400	0.0000	0.0000	100.0000
46	B-16A	125.0000	125.0000	113.9300	0.0000	0.0000	100.0000
47	B-18A	125.0000	125.0000	113.1200	0.0000	0.0000	100.0000
48	E135-04	119.0000	119.0000	105.5000	0.0000	0.0000	100.0000
49	D-2A	125.0000	125.0000	113.0500	0.0000	0.0000	100.0000
50	D-3A	125.0000	125.0000	113.2200	0.0000	0.0000	100.0000
51	D-4A	125.0000	125.0000	113.7000	0.0000	0.0000	100.0000
52	E135-03	116.7000	116.7000	104.4800	0.0000	0.0000	100.0000
53	E135-05	119.0000	119.0000	105.7900	0.0000	0.0000	100.0000
54	E135-01	118.8300	118.8300	103.7300	0.0000	0.0000	100.0000
55	A-1AA	125.0000	125.0000	119.5000	0.0000	0.0000	100.0000
56	E135-08	117.0000	117.0000	106.8000	0.0000	0.0000	100.0000
57	E135-06	117.0000	116.5025	106.3825	0.0000	0.0000	100.0000
58	E135-07	117.0000	116.8358	106.7158	0.0000	0.0000	100.0000
59	E535-02	117.0000	109.0000	107.0000	0.0000	0.0000	100.0000
60	AN-0	114.1500	111.1500	108.1500	0.0000	0.0000	100.0000
61	AS-0	114.4640	111.4500	108.4500	0.0000	0.0000	100.0000
62	AS-1	115.6760	112.2070	109.7070	0.0000	0.0000	100.0000
63	ML-01	117.2700	117.2700	110.0420	0.0000	0.0000	100.0000
64	E535-03	117.0000	109.0000	107.0000	0.0000	0.0000	100.0000

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| Table E3b - Junction Data |
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Inp Num	Junction Name	X Coord.	Y Coord.	Type of Manhole	Type of Inlet	Maximum Capacity	Pavement Shape	Pavement Slope
1	MH-B2	3.047355E+06	13.89155E+06	No P	Normal		0	0.0000
2	B-28	3.047199E+06	13.89166E+06	No P	Normal		0	0.0000
3	B-30	3.047506E+06	13.89143E+06	No P	Normal		0	0.0000
4	MH-B3	3.047315E+06	13.89122E+06	No P	Normal		0	0.0000
5	B-27	3.046968E+06	13.89184E+06	No P	Normal		0	0.0000
6	B-32	3.047883E+06	13.89114E+06	No P	Normal		0	0.0000
7	B-33	3.047070E+06	13.89141E+06	No P	Normal		0	0.0000
8	B-34	3.047476E+06	13.89110E+06	No P	Normal		0	0.0000
9	B-26	3.046705E+06	13.89204E+06	No P	Normal		0	0.0000
10	B-24	3.046467E+06	13.89222E+06	No P	Normal		0	0.0000
11	B-22	3.046228E+06	13.89240E+06	No P	Normal		0	0.0000
12	B-20	3.046053E+06	13.89254E+06	No P	Normal		0	0.0000
13	B-18	3.045790E+06	13.89274E+06	No P	Normal		0	0.0000
14	B-16	3.045554E+06	13.89292E+06	No P	Normal		0	0.0000
15	B-14	3.045241E+06	13.89317E+06	No P	Normal		0	0.0000
16	B-12	3.044955E+06	13.89337E+06	No P	Normal		0	0.0000
17	B-10	3.044644E+06	13.89362E+06	No P	Normal		0	0.0000
18	B-8	3.044362E+06	13.89383E+06	No P	Normal		0	0.0000
19	B-6	3.044080E+06	13.89404E+06	No P	Normal		0	0.0000
20	B-4	3.043881E+06	13.89419E+06	F	Normal		0	0.0000
21	B-2	3.043563E+06	13.89443E+06	No P	Normal		0	0.0000
22	MH-B1	3.047477E+06	13.89182E+06	No P	Normal		0	0.0000

23	B-25	3.047257E+06	13.89198E+06	No	P	Normal	0	0.0000
24	B-29	3.047697E+06	13.89166E+06	No	P	Normal	0	0.0000
25	B-23	3.047016E+06	13.89216E+06	No	P	Normal	0	0.0000
26	B-31	3.048142E+06	13.89133E+06	No	P	Normal	0	0.0000
27	B-21	3.046546E+06	13.89253E+06	No	P	Normal	0	0.0000
28	B-19	3.046427E+06	13.89262E+06		F	Normal	0	0.0000
29	B-17	3.046141E+06	13.89283E+06	No	P	Normal	0	0.0000
30	B-15	3.045982E+06	13.89295E+06	No	P	Normal	0	0.0000
31	B-13	3.045591E+06	13.89326E+06	No	P	Normal	0	0.0000
32	B-11	3.045432E+06	13.89338E+06	No	P	Normal	0	0.0000
33	B-9	3.045091E+06	13.89363E+06	No	P	Normal	0	0.0000
34	B-7	3.044788E+06	13.89386E+06	No	P	Normal	0	0.0000
35	B-5	3.044470E+06	13.89410E+06	No	P	Normal	0	0.0000
36	B-3	3.044232E+06	13.89428E+06	No	P	Normal	0	0.0000
37	B-1	3.043899E+06	13.89455E+06	No	P	Normal	0	0.0000
38	A-1A	3.043563E+06	13.89441E+06		F	Normal	0	0.0000
39	A-2A	3.043655E+06	13.89434E+06		F	Normal	0	0.0000
40	A-5A	3.044006E+06	13.89408E+06		F	Normal	0	0.0000
41	A-8A	3.044491E+06	13.89371E+06		F	Normal	0	0.0000
42	B-10A	3.044962E+06	13.89335E+06		F	Normal	0	0.0000
43	B-11A	3.045526E+06	13.89292E+06		F	Normal	0	0.0000
44	B-13A	3.045763E+06	13.89274E+06		F	Normal	0	0.0000
45	B-14A	3.046002E+06	13.89255E+06		F	Normal	0	0.0000
46	B-16A	3.046479E+06	13.89219E+06		F	Normal	0	0.0000
47	B-18A	3.046990E+06	13.89180E+06		F	Normal	0	0.0000
48	E135-04	3.047337E+06	13.89151E+06		F	Normal	0	0.0000
49	D-2A	3.047469E+06	13.89142E+06		F	Normal	0	0.0000
50	D-3A	3.047628E+06	13.89130E+06		F	Normal	0	0.0000
51	D-4A	3.047862E+06	13.89112E+06		F	Normal	0	0.0000
52	E135-03	3.047451E+06	13.89176E+06		F	Normal	0	0.0000
53	E135-05	3.047316E+06	13.89146E+06		F	Normal	0	0.0000
54	E135-01	3.047536E+06	13.89184E+06		F	Normal	0	0.0000
55	A-1AA	3.043099E+06	13.89476E+06		F	Normal	0	0.0000
56	E135-08	3.046992E+06	13.89115E+06		F	Normal	0	0.0000
57	E135-06	3.047240E+06	13.89115E+06	No	P	Normal	0	0.0000
58	E135-07	3.047042E+06	13.89115E+06	No	P	Normal	0	0.0000
59	E535-02	3.047042E+06	13.89121E+06	No	P	Normal	0	0.0000
60	AN-0	3.048730E+06	13.89086E+06	No	P	Normal	0	0.0000
61	AS-0	3.048293E+06	13.89083E+06	No	P	Normal	0	0.0000
62	AS-1	3.048694E+06	13.89053E+06	No	P	Normal	0	0.0000
63	ML-01	3.047829E+06	13.89083E+06		F	Normal	0	0.0000
64	E535-03	3.047241E+06	13.89108E+06	No	P	Normal	0	0.0000

Table E4 - Conduit Connectivity

Input Number	Conduit Name	Upstream Node	Downstream Node	Upstream Elevation	Downstream Elevation	
1	L_B-28	B-28	MH-B2	107.4700	107.1760	No Design
2	L_B-30	B-30	MH-B2	106.4680	106.1820	No Design
3	L_B-27	B-27	B-28	107.9050	107.4700	No Design
4	L_B-32	B-32	B-30	107.6780	106.9680	No Design
5	L_B-33	B-33	MH-B3	108.9600	108.6500	No Design
6	L_B-34	B-34	MH-B3	109.5980	109.4000	No Design
7	L_B-26	B-26	B-27	108.4000	107.9050	No Design
8	L_B-24	B-24	B-26	108.8500	108.4000	No Design
9	L_B-22	B-22	B-24	109.3000	108.8500	No Design
10	L_B-20	B-20	B-22	109.6300	109.3000	No Design
11	L_B-18	B-18	B-20	110.1250	109.6300	No Design
12	L_B-16	B-16	B-18	110.5750	110.1250	No Design
13	L_B-14	B-14	B-16	111.1750	110.5750	No Design
14	L_B-12	B-12	B-14	111.7000	111.1750	No Design
15	L_B-10	B-10	B-12	112.3000	111.7000	No Design
16	L_B-8	B-8	B-10	112.8250	112.3000	No Design
17	L_B-6	B-6	B-8	113.3500	112.8250	No Design
18	L_B-25	B-25	MH-B1	105.2770	105.0000	No Design
19	L_B-29	B-29	MH-B1	105.8460	105.5760	No Design
20	L_B-23	B-23	B-25	105.5760	105.2770	No Design
21	L_B-31	B-31	B-29	106.4000	105.8460	No Design
22	L_B-21	B-21	B-23	106.1760	105.5760	No Design
23	L_B-17	B-17	B-19	106.6760	106.3260	No Design
24	L_B-15	B-15	B-17	106.8760	106.6760	No Design
25	L_B-13	B-13	B-15	107.3770	106.8760	No Design
26	L_B-9	B-9	B-11	107.9970	107.5760	No Design
27	L_B-7	B-7	B-9	108.3770	107.9970	No Design
28	L_B-5	B-5	B-7	108.7770	108.3770	No Design
29	L_B-3	B-3	B-5	109.5770	109.2770	No Design
30	L_B-1	B-1	B-3	110.5040	110.0770	No Design
31	L-A-2A	A-1A	A-2A	118.6600	118.3000	No Design
32	L-A-5A	A-2A	A-5A	118.3000	116.9000	No Design
33	L-A-8A	A-5A	A-8A	116.9000	116.7000	No Design
34	L-B-10A	A-8A	B-10A	116.7000	115.7000	No Design
35	L-B-11A	B-10A	B-11A	115.7000	115.6200	No Design
36	L-B-13A	B-11A	B-13A	115.6200	114.7000	No Design
37	L-B-14A	B-13A	B-14A	114.7000	114.3400	No Design
38	L-B-16A	B-14A	B-16A	114.3400	113.9300	No Design
39	L-B-18A	B-16A	B-18A	113.9300	113.1200	No Design
40	L-D-3A	D-4A	D-3A	113.7000	113.2200	No Design
41	L-D-2A	D-3A	D-2A	113.2200	113.0500	No Design
42	L-E13504.1	D-2A	E135-04	113.0500	108.5900	No Design
43	L-E13504	B-18A	E135-04	113.1200	108.9000	No Design
44	E135.4	E135-05	E135-04	105.7900	105.5000	No Design
45	E135.3	MH-B2	E135-03	105.4200	104.4800	No Design
46	E135.2	E135-03	MH-B1	104.4800	104.1400	No Design
47	E135.1	MH-B1	E135-01	104.1400	103.7300	No Design
48	L-A-1A	A-1AA	A-1A	119.5000	118.6600	No Design
49	E135.8	E135-08	E135-07	106.8000	106.7158	No Design
50	E135.4A	E135-04	MH-B2	105.5000	105.4200	No Design
51	E135.5	MH-B3	E135-05	106.2360	105.7900	No Design
52	E135.7	E135-07	E135-06	106.7158	106.3825	No Design
53	E135.6	E135-06	MH-B3	106.3825	106.2360	No Design
54	L_AN-0	AN-0	B-31	108.1500	107.4000	No Design
55	L_AS-1	AS-1	AS-0	109.7070	108.9500	No Design
56	L_AS-0	AS-0	B-32	108.4500	107.6780	No Design
57	Link985	ML-01	B-34	110.0420	109.5980	No Design
58	L_B-20-OF	B-20	B-14A	117.2800	114.3400	No Design
59	L_B-18-OF	B-18	B-13A	117.7300	114.7000	No Design
60	L_B-16-OF	B-16	B-11A	118.0300	115.6200	No Design
61	L_B-12-OF	B-12	B-10A	118.3700	115.7000	No Design
62	L_B-8-OF	B-8	A-8A	119.6200	116.7000	No Design
63	L_B-10-OF	B-10	A-8A	119.0700	116.7000	No Design
64	L_B-6-OF	B-6	A-5A	119.9000	116.9000	No Design
65	L_B-4-OF	B-4	A-5A	121.2700	116.9000	No Design
66	L_B-2-OF	B-2	A-1A	122.1700	118.6600	No Design
67	B-4 RCP	B-4	B-6	113.7250	113.3500	No Design
68	B-4 OL	B-4	B-6	120.2700	119.4000	No Design
69	B-2 RCP	B-2	B-4	114.8250	114.2250	No Design
70	B-2 OL	B-2	B-4	121.6700	120.2700	No Design
71	B-19 RCB	B-19	B-21	106.3260	106.1760	No Design
72	B-19 OL	B-19	B-21	114.5900	113.5500	No Design
73	B-11 RCB	B-11	B-13	107.5760	107.3770	No Design
74	B-11 OL	B-11	B-13	116.5000	115.9000	No Design
75	02-RCP	E535-02	E135-07	107.0000	106.7158	No Design
76	03-RCP	E535-03	E135-06	107.0000	106.3825	No Design

Storage Junction Data

STORAGE JUNCTION NUMBER OR NAME	JUNCTION TYPE	MAXIMUM OR CONSTANT SURFACE AREA (FT2)	PEAK OR CONSTANT VOLUME (CUBIC FEET)	CROWN ELEVATION (FT)	DEPTH STARTS FROM
B-28	Stage/Area	10367.2800	72783.7398	114.9400	Spill Crest
B-30	Stage/Area	10367.2800	82446.0447	114.8700	Spill Crest
B-27	Stage/Area	10367.2800	73975.9770	115.4900	Spill Crest
B-32	Stage/Area	10367.2800	83897.4639	116.2200	Spill Crest
B-26	Stage/Area	10367.2800	75375.5598	116.1200	Spill Crest
B-24	Stage/Area	10367.2800	73094.7582	116.3500	Spill Crest
B-22	Stage/Area	10367.2800	70710.2838	116.5700	Spill Crest
B-20	Stage/Area	10367.2800	5882.5088	117.7800	Node Invert
B-18	Stage/Area	10367.2800	5738.3875	118.2300	Node Invert
B-16	Stage/Area	10367.2800	5737.7341	118.5300	Node Invert
B-14	Stage/Area	10367.2800	66926.2266	118.0800	Spill Crest
B-12	Stage/Area	10367.2800	5734.3147	118.8700	Node Invert
B-10	Stage/Area	10367.2800	5734.7503	119.5700	Node Invert
B-8	Stage/Area	10367.2800	5734.8592	120.1200	Node Invert
B-6	Stage/Area	10367.2800	5733.7920	120.4000	Node Invert
B-25	Stage/Area	17119.0800	126821.1270	113.2700	Spill Crest
B-29	Stage/Area	17119.0800	119819.4233	113.4300	Spill Crest
B-23	Stage/Area	17119.0800	115368.4625	112.9000	Spill Crest
B-31	Stage/Area	17119.0800	114957.6045	113.7000	Spill Crest
B-21	Stage/Area	17119.0800	124783.9565	114.0500	Spill Crest
B-17	Stage/Area	17119.0800	136938.5033	115.2600	Spill Crest
B-15	Stage/Area	17119.0800	133514.6873	115.2600	Spill Crest
B-13	Stage/Area	17119.0800	144453.7794	116.4000	Spill Crest
B-9	Stage/Area	17119.0800	133839.9498	116.4000	Spill Crest
B-7	Stage/Area	17119.0800	126992.3178	116.3800	Spill Crest
B-5	Stage/Area	17119.0800	124253.2650	116.6200	Spill Crest
B-3	Stage/Area	17119.0800	116892.0606	116.9900	Spill Crest
B-1	Stage/Area	17119.0800	120880.8062	118.1500	Spill Crest
E535-02	Stage/Area	191228.4000	1.603603E+06	117.0000	Node Invert
AN-0	Stage/Area	17119.0800	92702.8005	114.1500	Spill Crest
AS-0	Stage/Area	10367.2800	57688.9801	114.4640	Spill Crest
AS-1	Stage/Area	10367.2800	57222.4525	115.6760	Spill Crest
E535-03	Stage/Area	694346.4000	6.097540E+06	117.0000	Node Invert

Variable storage data for node | B-28

Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	107.4700	0.0000	4.3560	0.0000	0.0001	0.0000
2	107.4950	0.0250	150.8265	1.5068	0.0035	0.0000
3	107.5200	0.0500	297.2970	7.0058	0.0068	0.0002
4	107.5450	0.0750	443.7675	16.2082	0.0102	0.0004
5	107.5700	0.1000	590.2380	29.0898	0.0135	0.0007
6	107.5950	0.1250	736.7085	45.6428	0.0169	0.0010
7	107.6200	0.1500	883.1790	65.8638	0.0203	0.0015
8	107.6450	0.1750	1029.6495	89.7507	0.0236	0.0021
9	107.6700	0.2000	1176.1200	117.3026	0.0270	0.0027
10	107.6950	0.2250	1475.5950	150.3783	0.0339	0.0035
11	107.7200	0.2500	1775.0700	190.9540	0.0408	0.0044
12	107.7450	0.2750	2074.5450	239.0256	0.0476	0.0055
13	107.7700	0.3000	2374.0200	294.5906	0.0545	0.0068
14	107.7950	0.3250	2673.4950	357.6475	0.0614	0.0082
15	107.8200	0.3500	2972.9700	428.1952	0.0683	0.0098
16	107.8450	0.3750	3272.4450	506.2330	0.0751	0.0116
17	107.8700	0.4000	3571.9200	591.7602	0.0820	0.0136
18	107.8950	0.4250	4067.4150	687.1849	0.0934	0.0158
19	107.9200	0.4500	4562.9100	795.0046	0.1047	0.0183
20	107.9450	0.4750	5058.4050	915.2179	0.1161	0.0210
21	107.9700	0.5000	5553.9000	1047.8235	0.1275	0.0241
22	107.9950	0.5250	6049.3950	1192.8205	0.1389	0.0274
23	108.0200	0.5500	6544.8900	1350.2085	0.1502	0.0310
24	108.0450	0.5750	7040.3850	1519.9868	0.1616	0.0349
25	108.0700	0.6000	7535.8800	1702.1550	0.1730	0.0391
26	108.0825	0.6125	7889.8050	1798.5570	0.1811	0.0413
27	108.0950	0.6250	8243.7300	1899.3835	0.1892	0.0436
28	108.1075	0.6375	8597.6550	2004.6344	0.1974	0.0460
29	108.1200	0.6500	8951.5800	2114.3097	0.2055	0.0485
30	108.1325	0.6625	9305.5050	2228.4094	0.2136	0.0512
31	108.1450	0.6750	9659.4300	2346.9333	0.2218	0.0539
32	108.1575	0.6875	10013.3550	2469.8816	0.2299	0.0567
33	108.1700	0.7000	10367.2800	2597.2542	0.2380	0.0596
34	114.9400	7.4700	10367.2800	72783.7398	0.2380	1.6709

Variable storage data for node | B-30

Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	106.4680	0.0000	4.3560	0.0000	0.0001	0.0000
2	106.4930	0.0250	150.8265	1.5068	0.0035	0.0000
3	106.5180	0.0500	297.2970	7.0058	0.0068	0.0002
4	106.5430	0.0750	443.7675	16.2082	0.0102	0.0004
5	106.5680	0.1000	590.2380	29.0898	0.0135	0.0007
6	106.5930	0.1250	736.7085	45.6428	0.0169	0.0010
7	106.6180	0.1500	883.1790	65.8638	0.0203	0.0015
8	106.6430	0.1750	1029.6495	89.7507	0.0236	0.0021
9	106.6680	0.2000	1176.1200	117.3026	0.0270	0.0027
10	106.6930	0.2250	1475.5950	150.3783	0.0339	0.0035
11	106.7180	0.2500	1775.0700	190.9540	0.0408	0.0044
12	106.7430	0.2750	2074.5450	239.0256	0.0476	0.0055
13	106.7680	0.3000	2374.0200	294.5906	0.0545	0.0068
14	106.7930	0.3250	2673.4950	357.6475	0.0614	0.0082
15	106.8180	0.3500	2972.9700	428.1952	0.0683	0.0098
16	106.8430	0.3750	3272.4450	506.2330	0.0751	0.0116
17	106.8680	0.4000	3571.9200	591.7602	0.0820	0.0136
18	106.8930	0.4250	4067.4150	687.1849	0.0934	0.0158
19	106.9180	0.4500	4562.9100	795.0046	0.1047	0.0183
20	106.9430	0.4750	5058.4050	915.2179	0.1161	0.0210
21	106.9680	0.5000	5553.9000	1047.8235	0.1275	0.0241
22	106.9930	0.5250	6049.3950	1192.8205	0.1389	0.0274
23	107.0180	0.5500	6544.8900	1350.2085	0.1502	0.0310
24	107.0430	0.5750	7040.3850	1519.9868	0.1616	0.0349
25	107.0680	0.6000	7535.8800	1702.1550	0.1730	0.0391
26	107.0805	0.6125	7889.8050	1798.5570	0.1811	0.0413
27	107.0930	0.6250	8243.7300	1899.3835	0.1892	0.0436
28	107.1055	0.6375	8597.6550	2004.6344	0.1974	0.0460
29	107.1180	0.6500	8951.5800	2114.3097	0.2055	0.0485
30	107.1305	0.6625	9305.5050	2228.4094	0.2136	0.0512
31	107.1430	0.6750	9659.4300	2346.9333	0.2218	0.0539
32	107.1555	0.6875	10013.3550	2469.8816	0.2299	0.0567
33	107.1680	0.7000	10367.2800	2597.2542	0.2380	0.0596
34	114.8700	8.4020	10367.2800	82446.0447	0.2380	1.8927

Variable storage data for node | B-27

Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	107.9050	0.0000	4.3560	0.0000	0.0001	0.0000
2	107.9300	0.0250	150.8265	1.5068	0.0035	0.0000
3	107.9550	0.0500	297.2970	7.0058	0.0068	0.0002
4	107.9800	0.0750	443.7675	16.2082	0.0102	0.0004
5	108.0050	0.1000	590.2380	29.0898	0.0135	0.0007
6	108.0300	0.1250	736.7085	45.6428	0.0169	0.0010
7	108.0550	0.1500	883.1790	65.8638	0.0203	0.0015
8	108.0800	0.1750	1029.6495	89.7507	0.0236	0.0021
9	108.1050	0.2000	1176.1200	117.3026	0.0270	0.0027
10	108.1300	0.2250	1475.5950	150.3783	0.0339	0.0035
11	108.1550	0.2500	1775.0700	190.9540	0.0408	0.0044
12	108.1800	0.2750	2074.5450	239.0256	0.0476	0.0055
13	108.2050	0.3000	2374.0200	294.5906	0.0545	0.0068
14	108.2300	0.3250	2673.4950	357.6475	0.0614	0.0082
15	108.2550	0.3500	2972.9700	428.1952	0.0683	0.0098
16	108.2800	0.3750	3272.4450	506.2330	0.0751	0.0116
17	108.3050	0.4000	3571.9200	591.7602	0.0820	0.0136
18	108.3300	0.4250	4067.4150	687.1849	0.0934	0.0158
19	108.3550	0.4500	4562.9100	795.0046	0.1047	0.0183
20	108.3800	0.4750	5058.4050	915.2179	0.1161	0.0210
21	108.4050	0.5000	5553.9000	1047.8235	0.1275	0.0241
22	108.4300	0.5250	6049.3950	1192.8205	0.1389	0.0274
23	108.4550	0.5500	6544.8900	1350.2085	0.1502	0.0310
24	108.4800	0.5750	7040.3850	1519.9868	0.1616	0.0349
25	108.5050	0.6000	7535.8800	1702.1550	0.1730	0.0391
26	108.5175	0.6125	7889.8050	1798.5570	0.1811	0.0413
27	108.5300	0.6250	8243.7300	1899.3835	0.1892	0.0436
28	108.5425	0.6375	8597.6550	2004.6344	0.1974	0.0460
29	108.5550	0.6500	8951.5800	2114.3097	0.2055	0.0485
30	108.5675	0.6625	9305.5050	2228.4094	0.2136	0.0512
31	108.5800	0.6750	9659.4300	2346.9333	0.2218	0.0539
32	108.5925	0.6875	10013.3550	2469.8816	0.2299	0.0567
33	108.6050	0.7000	10367.2800	2597.2542	0.2380	0.0596
34	115.4900	7.5850	10367.2800	73975.9770	0.2380	1.6983

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| Variable storage data for node | B-32
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	107.6780	0.0000	4.3560	0.0000	0.0001	0.0000
2	107.7030	0.0250	150.8265	1.5068	0.0035	0.0000
3	107.7280	0.0500	297.2970	7.0058	0.0068	0.0002
4	107.7530	0.0750	443.7675	16.2082	0.0102	0.0004
5	107.7780	0.1000	590.2380	29.0898	0.0135	0.0007
6	107.8030	0.1250	736.7085	45.6428	0.0169	0.0010
7	107.8280	0.1500	883.1790	65.8638	0.0203	0.0015
8	107.8530	0.1750	1029.6495	89.7507	0.0236	0.0021
9	107.8780	0.2000	1176.1200	117.3026	0.0270	0.0027
10	107.9030	0.2250	1475.5950	150.3783	0.0339	0.0035
11	107.9280	0.2500	1775.0700	190.9540	0.0408	0.0044
12	107.9530	0.2750	2074.5450	239.0256	0.0476	0.0055
13	107.9780	0.3000	2374.0200	294.5906	0.0545	0.0068
14	108.0030	0.3250	2673.4950	357.6475	0.0614	0.0082
15	108.0280	0.3500	2972.9700	428.1952	0.0683	0.0098
16	108.0530	0.3750	3272.4450	506.2330	0.0751	0.0116
17	108.0780	0.4000	3571.9200	591.7602	0.0820	0.0136
18	108.1030	0.4250	4067.4150	687.1849	0.0934	0.0158
19	108.1280	0.4500	4562.9100	795.0046	0.1047	0.0183
20	108.1530	0.4750	5058.4050	915.2179	0.1161	0.0210
21	108.1780	0.5000	5553.9000	1047.8235	0.1275	0.0241
22	108.2030	0.5250	6049.3950	1192.8205	0.1389	0.0274
23	108.2280	0.5500	6544.8900	1350.2085	0.1502	0.0310
24	108.2530	0.5750	7040.3850	1519.9868	0.1616	0.0349
25	108.2780	0.6000	7535.8800	1702.1550	0.1730	0.0391
26	108.2905	0.6125	7889.8050	1798.5570	0.1811	0.0413
27	108.3030	0.6250	8243.7300	1899.3835	0.1892	0.0436
28	108.3155	0.6375	8597.6550	2004.6344	0.1974	0.0460
29	108.3280	0.6500	8951.5800	2114.3097	0.2055	0.0485
30	108.3405	0.6625	9305.5050	2228.4094	0.2136	0.0512
31	108.3530	0.6750	9659.4300	2346.9333	0.2218	0.0539
32	108.3655	0.6875	10013.3550	2469.8816	0.2299	0.0567
33	108.3780	0.7000	10367.2800	2597.2542	0.2380	0.0596
34	116.2200	8.5420	10367.2800	83897.4639	0.2380	1.9260

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| Variable storage data for node | B-26
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	108.4000	0.0000	4.3560	0.0000	0.0001	0.0000
2	108.4250	0.0250	150.8265	1.5068	0.0035	0.0000
3	108.4500	0.0500	297.2970	7.0058	0.0068	0.0002
4	108.4750	0.0750	443.7675	16.2082	0.0102	0.0004
5	108.5000	0.1000	590.2380	29.0898	0.0135	0.0007
6	108.5250	0.1250	736.7085	45.6428	0.0169	0.0010
7	108.5500	0.1500	883.1790	65.8638	0.0203	0.0015
8	108.5750	0.1750	1029.6495	89.7507	0.0236	0.0021
9	108.6000	0.2000	1176.1200	117.3026	0.0270	0.0027
10	108.6250	0.2250	1475.5950	150.3783	0.0339	0.0035
11	108.6500	0.2500	1775.0700	190.9540	0.0408	0.0044
12	108.6750	0.2750	2074.5450	239.0256	0.0476	0.0055
13	108.7000	0.3000	2374.0200	294.5906	0.0545	0.0068
14	108.7250	0.3250	2673.4950	357.6475	0.0614	0.0082
15	108.7500	0.3500	2972.9700	428.1952	0.0683	0.0098
16	108.7750	0.3750	3272.4450	506.2330	0.0751	0.0116
17	108.8000	0.4000	3571.9200	591.7602	0.0820	0.0136
18	108.8250	0.4250	4067.4150	687.1849	0.0934	0.0158
19	108.8500	0.4500	4562.9100	795.0046	0.1047	0.0183
20	108.8750	0.4750	5058.4050	915.2179	0.1161	0.0210
21	108.9000	0.5000	5553.9000	1047.8235	0.1275	0.0241
22	108.9250	0.5250	6049.3950	1192.8205	0.1389	0.0274
23	108.9500	0.5500	6544.8900	1350.2085	0.1502	0.0310
24	108.9750	0.5750	7040.3850	1519.9868	0.1616	0.0349
25	109.0000	0.6000	7535.8800	1702.1550	0.1730	0.0391
26	109.0125	0.6125	7889.8050	1798.5570	0.1811	0.0413
27	109.0250	0.6250	8243.7300	1899.3835	0.1892	0.0436
28	109.0375	0.6375	8597.6550	2004.6344	0.1974	0.0460
29	109.0500	0.6500	8951.5800	2114.3097	0.2055	0.0485
30	109.0625	0.6625	9305.5050	2228.4094	0.2136	0.0512
31	109.0750	0.6750	9659.4300	2346.9333	0.2218	0.0539
32	109.0875	0.6875	10013.3550	2469.8816	0.2299	0.0567
33	109.1000	0.7000	10367.2800	2597.2542	0.2380	0.0596
34	116.1200	7.7200	10367.2800	75375.5598	0.2380	1.7304

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| Variable storage data for node | B-24
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	108.8500	0.0000	4.3560	0.0000	0.0001	0.0000
2	108.8750	0.0250	150.8265	1.5068	0.0035	0.0000

3	108.9000	0.0500	297.2970	7.0058	0.0068	0.0002
4	108.9250	0.0750	443.7675	16.2082	0.0102	0.0004
5	108.9500	0.1000	590.2380	29.0898	0.0135	0.0007
6	108.9750	0.1250	736.7085	45.6428	0.0169	0.0010
7	109.0000	0.1500	883.1790	65.8638	0.0203	0.0015
8	109.0250	0.1750	1029.6495	89.7507	0.0236	0.0021
9	109.0500	0.2000	1176.1200	117.3026	0.0270	0.0027
10	109.0750	0.2250	1475.5950	150.3783	0.0339	0.0035
11	109.1000	0.2500	1775.0700	190.9540	0.0408	0.0044
12	109.1250	0.2750	2074.5450	239.0256	0.0476	0.0055
13	109.1500	0.3000	2374.0200	294.5906	0.0545	0.0068
14	109.1750	0.3250	2673.4950	357.6475	0.0614	0.0082
15	109.2000	0.3500	2972.9700	428.1952	0.0683	0.0098
16	109.2250	0.3750	3272.4450	506.2330	0.0751	0.0116
17	109.2500	0.4000	3571.9200	591.7602	0.0820	0.0136
18	109.2750	0.4250	4067.4150	687.1849	0.0934	0.0158
19	109.3000	0.4500	4562.9100	795.0046	0.1047	0.0183
20	109.3250	0.4750	5058.4050	915.2179	0.1161	0.0210
21	109.3500	0.5000	5553.9000	1047.8235	0.1275	0.0241
22	109.3750	0.5250	6049.3950	1192.8205	0.1389	0.0274
23	109.4000	0.5500	6544.8900	1350.2085	0.1502	0.0310
24	109.4250	0.5750	7040.3850	1519.9868	0.1616	0.0349
25	109.4500	0.6000	7535.8800	1702.1550	0.1730	0.0391
26	109.4625	0.6125	7889.8050	1798.5570	0.1811	0.0413
27	109.4750	0.6250	8243.7300	1899.3835	0.1892	0.0436
28	109.4875	0.6375	8597.6550	2004.6344	0.1974	0.0460
29	109.5000	0.6500	8951.5800	2114.3097	0.2055	0.0485
30	109.5125	0.6625	9305.5050	2228.4094	0.2136	0.0512
31	109.5250	0.6750	9659.4300	2346.9333	0.2218	0.0539
32	109.5375	0.6875	10013.3550	2469.8816	0.2299	0.0567
33	109.5500	0.7000	10367.2800	2597.2542	0.2380	0.0596
34	116.3500	7.5000	10367.2800	73094.7582	0.2380	1.6780

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| Variable storage data for node | B-22
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	109.3000	0.0000	4.3560	0.0000	0.0001	0.0000
2	109.3250	0.0250	150.8265	1.5068	0.0035	0.0000
3	109.3500	0.0500	297.2970	7.0058	0.0068	0.0002
4	109.3750	0.0750	443.7675	16.2082	0.0102	0.0004
5	109.4000	0.1000	590.2380	29.0898	0.0135	0.0007
6	109.4250	0.1250	736.7085	45.6428	0.0169	0.0010
7	109.4500	0.1500	883.1790	65.8638	0.0203	0.0015
8	109.4750	0.1750	1029.6495	89.7507	0.0236	0.0021
9	109.5000	0.2000	1176.1200	117.3026	0.0270	0.0027
10	109.5250	0.2250	1475.5950	150.3783	0.0339	0.0035
11	109.5500	0.2500	1775.0700	190.9540	0.0408	0.0044
12	109.5750	0.2750	2074.5450	239.0256	0.0476	0.0055
13	109.6000	0.3000	2374.0200	294.5906	0.0545	0.0068
14	109.6250	0.3250	2673.4950	357.6475	0.0614	0.0082
15	109.6500	0.3500	2972.9700	428.1952	0.0683	0.0098
16	109.6750	0.3750	3272.4450	506.2330	0.0751	0.0116
17	109.7000	0.4000	3571.9200	591.7602	0.0820	0.0136
18	109.7250	0.4250	4067.4150	687.1849	0.0934	0.0158
19	109.7500	0.4500	4562.9100	795.0046	0.1047	0.0183
20	109.7750	0.4750	5058.4050	915.2179	0.1161	0.0210
21	109.8000	0.5000	5553.9000	1047.8235	0.1275	0.0241
22	109.8250	0.5250	6049.3950	1192.8205	0.1389	0.0274
23	109.8500	0.5500	6544.8900	1350.2085	0.1502	0.0310
24	109.8750	0.5750	7040.3850	1519.9868	0.1616	0.0349
25	109.9000	0.6000	7535.8800	1702.1550	0.1730	0.0391
26	109.9125	0.6125	7889.8050	1798.5570	0.1811	0.0413
27	109.9250	0.6250	8243.7300	1899.3835	0.1892	0.0436
28	109.9375	0.6375	8597.6550	2004.6344	0.1974	0.0460
29	109.9500	0.6500	8951.5800	2114.3097	0.2055	0.0485
30	109.9625	0.6625	9305.5050	2228.4094	0.2136	0.0512
31	109.9750	0.6750	9659.4300	2346.9333	0.2218	0.0539
32	109.9875	0.6875	10013.3550	2469.8816	0.2299	0.0567
33	110.0000	0.7000	10367.2800	2597.2542	0.2380	0.0596
34	116.5700	7.2700	10367.2800	70710.2838	0.2380	1.6233

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| Variable storage data for node | B-20
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	109.6300	0.0000	4.3560	0.0000	0.0001	0.0000
2	110.5237	0.8938	9.2565	5.9471	0.0002	0.0001
3	111.4175	1.7875	14.1570	16.3328	0.0003	0.0004
4	112.3113	2.6813	19.0575	31.1214	0.0004	0.0007
5	113.2050	3.5750	23.9580	50.3022	0.0006	0.0012
6	114.0987	4.4688	28.8585	73.8706	0.0007	0.0017
7	114.9925	5.3625	33.7590	101.8242	0.0008	0.0023
8	115.8862	6.2563	38.6595	134.1615	0.0009	0.0031
9	116.7800	7.1500	43.5600	170.8816	0.0010	0.0039
10	116.8050	7.1750	185.1300	173.5357	0.0043	0.0040
11	116.8300	7.2000	326.7000	179.8504	0.0075	0.0041
12	116.8550	7.2250	468.2700	189.7345	0.0107	0.0044
13	116.8800	7.2500	609.8400	203.1720	0.0140	0.0047
14	116.9050	7.2750	751.4100	220.1569	0.0173	0.0051
15	116.9300	7.3000	892.9800	240.6863	0.0205	0.0055
16	116.9550	7.3250	1034.5500	264.7588	0.0237	0.0061
17	116.9800	7.3500	1176.1200	292.3732	0.0270	0.0067
18	117.0050	7.3750	1475.5950	325.4490	0.0339	0.0075
19	117.0300	7.4000	1775.0700	366.0247	0.0408	0.0084
20	117.0550	7.4250	2074.5450	414.0963	0.0476	0.0095
21	117.0800	7.4500	2374.0200	469.6613	0.0545	0.0108
22	117.1050	7.4750	2673.4950	532.7182	0.0614	0.0122
23	117.1300	7.5000	2972.9700	603.2659	0.0683	0.0138
24	117.1550	7.5250	3272.4450	681.3036	0.0751	0.0156
25	117.1800	7.5500	3571.9200	766.8309	0.0820	0.0176
26	117.2050	7.5750	4067.4150	862.2555	0.0934	0.0198
27	117.2300	7.6000	4562.9100	970.0753	0.1047	0.0223
28	117.2550	7.6250	5058.4050	1090.2885	0.1161	0.0250
29	117.2800	7.6500	5553.9000	1222.8941	0.1275	0.0281
30	117.3050	7.6750	6049.3950	1367.8912	0.1389	0.0314
31	117.3300	7.7000	6544.8900	1525.2791	0.1502	0.0350
32	117.3550	7.7250	7040.3850	1695.0574	0.1616	0.0389
33	117.3800	7.7500	7535.8800	1877.2256	0.1730	0.0431
34	117.3925	7.7625	7889.8050	1973.6277	0.1811	0.0453
35	117.4050	7.7750	8243.7300	2074.4542	0.1892	0.0476
36	117.4175	7.7875	8597.6550	2179.7051	0.1974	0.0500
37	117.4300	7.8000	8951.5800	2289.3804	0.2055	0.0526
38	117.4425	7.8125	9305.5050	2403.4800	0.2136	0.0552
39	117.4550	7.8250	9659.4300	2522.0040	0.2218	0.0579
40	117.4675	7.8375	10013.3550	2644.9522	0.2299	0.0607
41	117.4800	7.8500	10367.2800	2772.3248	0.2380	0.0636
42	117.7800	8.1500	10367.2800	5882.5088	0.2380	0.1350

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| Variable storage data for node | B-18
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft

Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	110.1250	0.0000	4.3560	0.0000	0.0001	0.0000
2	111.0131	0.8881	4.3560	3.8687	0.0001	0.0001
3	111.9013	1.7763	4.3560	7.7373	0.0001	0.0002
4	112.7894	2.6644	4.3560	11.6060	0.0001	0.0003
5	113.6775	3.5525	4.3560	15.4747	0.0001	0.0004
6	114.5656	4.4406	4.3560	19.3434	0.0001	0.0004
7	115.4537	5.3288	4.3560	23.2120	0.0001	0.0005
8	116.3419	6.2169	4.3560	27.0807	0.0001	0.0006
9	117.2300	7.1050	4.3560	30.9494	0.0001	0.0007
10	117.2550	7.1300	150.8265	32.4562	0.0035	0.0007
11	117.2800	7.1550	297.2970	37.9552	0.0068	0.0009
12	117.3050	7.1800	443.7675	47.1576	0.0102	0.0011
13	117.3300	7.2050	590.2380	60.0392	0.0135	0.0014
14	117.3550	7.2300	736.7085	76.5922	0.0169	0.0018
15	117.3800	7.2550	883.1790	96.8132	0.0203	0.0022
16	117.4050	7.2800	1029.6495	120.7001	0.0236	0.0028
17	117.4300	7.3050	1176.1200	148.2520	0.0270	0.0034
18	117.4550	7.3300	1475.5950	181.3277	0.0339	0.0042
19	117.4800	7.3550	1775.0700	221.9034	0.0408	0.0051
20	117.5050	7.3800	2074.5450	269.9750	0.0476	0.0062
21	117.5300	7.4050	2374.0200	325.5400	0.0545	0.0075
22	117.5550	7.4300	2673.4950	388.5969	0.0614	0.0089
23	117.5800	7.4550	2972.9700	459.1446	0.0683	0.0105
24	117.6050	7.4800	3272.4450	537.1823	0.0751	0.0123
25	117.6300	7.5050	3571.9200	622.7096	0.0820	0.0143
26	117.6550	7.5300	4067.4150	718.1343	0.0934	0.0165
27	117.6800	7.5550	4562.9100	825.9540	0.1047	0.0190
28	117.7050	7.5800	5058.4050	946.1672	0.1161	0.0217
29	117.7300	7.6050	5553.9000	1078.7728	0.1275	0.0248
30	117.7550	7.6300	6049.3950	1223.7699	0.1389	0.0281
31	117.7800	7.6550	6544.8900	1381.1579	0.1502	0.0317
32	117.8050	7.6800	7040.3850	1550.9361	0.1616	0.0356
33	117.8300	7.7050	7535.8800	1733.1043	0.1730	0.0398
34	117.8425	7.7175	7889.8050	1829.5064	0.1811	0.0420
35	117.8550	7.7300	8243.7300	1930.3329	0.1892	0.0443
36	117.8675	7.7425	8597.6550	2035.5838	0.1974	0.0467
37	117.8800	7.7550	8951.5800	2145.2591	0.2055	0.0492
38	117.8925	7.7675	9305.5050	2259.3587	0.2136	0.0519
39	117.9050	7.7800	9659.4300	2377.8827	0.2218	0.0546
40	117.9175	7.7925	10013.3550	2500.8310	0.2299	0.0574
41	117.9300	7.8050	10367.2800	2628.2035	0.2380	0.0603
42	118.2300	8.1050	10367.2800	5738.3875	0.2380	0.1317

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| Variable storage data for node | B-16
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	110.5750	0.0000	4.3560	0.0000	0.0001	0.0000
2	111.4444	0.8694	4.3560	3.7870	0.0001	0.0001
3	112.3137	1.7388	4.3560	7.5740	0.0001	0.0002
4	113.1831	2.6081	4.3560	11.3610	0.0001	0.0003
5	114.0525	3.4775	4.3560	15.1480	0.0001	0.0003
6	114.9219	4.3469	4.3560	18.9350	0.0001	0.0004
7	115.7913	5.2163	4.3560	22.7220	0.0001	0.0005
8	116.6606	6.0856	4.3560	26.5090	0.0001	0.0006
9	117.5300	6.9550	4.3560	30.2960	0.0001	0.0007
10	117.5550	6.9800	150.8265	31.8028	0.0035	0.0007
11	117.5800	7.0050	297.2970	37.3018	0.0068	0.0009
12	117.6050	7.0300	443.7675	46.5042	0.0102	0.0011
13	117.6300	7.0550	590.2380	59.3858	0.0135	0.0014
14	117.6550	7.0800	736.7085	75.9388	0.0169	0.0017
15	117.6800	7.1050	883.1790	96.1598	0.0203	0.0022
16	117.7050	7.1300	1029.6495	120.0467	0.0236	0.0028
17	117.7300	7.1550	1176.1200	147.5986	0.0270	0.0034
18	117.7550	7.1800	1475.5950	180.6743	0.0339	0.0041
19	117.7800	7.2050	1775.0700	221.2500	0.0408	0.0051
20	117.8050	7.2300	2074.5450	269.3216	0.0476	0.0062
21	117.8300	7.2550	2374.0200	324.8866	0.0545	0.0075
22	117.8550	7.2800	2673.4950	387.9435	0.0614	0.0089
23	117.8800	7.3050	2972.9700	458.4912	0.0683	0.0105
24	117.9050	7.3300	3272.4450	536.5289	0.0751	0.0123
25	117.9300	7.3550	3571.9200	622.0562	0.0820	0.0143
26	117.9550	7.3800	4067.4150	717.4809	0.0934	0.0165
27	117.9800	7.4050	4562.9100	825.3006	0.1047	0.0189
28	118.0050	7.4300	5058.4050	945.5138	0.1161	0.0217
29	118.0300	7.4550	5553.9000	1078.1194	0.1275	0.0248
30	118.0550	7.4800	6049.3950	1223.1165	0.1389	0.0281
31	118.0800	7.5050	6544.8900	1380.5045	0.1502	0.0317
32	118.1050	7.5300	7040.3850	1550.2827	0.1616	0.0356
33	118.1300	7.5550	7535.8800	1732.4509	0.1730	0.0398
34	118.1425	7.5675	7889.8050	1828.8530	0.1811	0.0420
35	118.1550	7.5800	8243.7300	1929.6795	0.1892	0.0443
36	118.1675	7.5925	8597.6550	2034.9304	0.1974	0.0467
37	118.1800	7.6050	8951.5800	2144.6057	0.2055	0.0492
38	118.1925	7.6175	9305.5050	2258.7053	0.2136	0.0519
39	118.2050	7.6300	9659.4300	2377.2293	0.2218	0.0546
40	118.2175	7.6425	10013.3550	2500.1776	0.2299	0.0574
41	118.2300	7.6550	10367.2800	2627.5501	0.2380	0.0603
42	118.5300	7.9550	10367.2800	5737.7341	0.2380	0.1317

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| Variable storage data for node | B-14
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	111.1750	0.0000	4.3560	0.0000	0.0001	0.0000
2	111.2000	0.0250	150.8265	1.5068	0.0035	0.0000
3	111.2250	0.0500	297.2970	7.0058	0.0068	0.0002
4	111.2500	0.0750	443.7675	16.2082	0.0102	0.0004
5	111.2750	0.1000	590.2380	29.0898	0.0135	0.0007
6	111.3000	0.1250	736.7085	45.6428	0.0169	0.0010
7	111.3250	0.1500	883.1790	65.8638	0.0203	0.0015
8	111.3500	0.1750	1029.6495	89.7507	0.0236	0.0021
9	111.3750	0.2000	1176.1200	117.3026	0.0270	0.0027
10	111.4000	0.2250	1475.5950	150.3783	0.0339	0.0035
11	111.4250	0.2500	1775.0700	190.9540	0.0408	0.0044
12	111.4500	0.2750	2074.5450	239.0256	0.0476	0.0055
13	111.4750	0.3000	2374.0200	294.5906	0.0545	0.0068
14	111.5000	0.3250	2673.4950	357.6475	0.0614	0.0082
15	111.5250	0.3500	2972.9700	428.1952	0.0683	0.0098
16	111.5500	0.3750	3272.4450	506.2330	0.0751	0.0116
17	111.5750	0.4000	3571.9200	591.7602	0.0820	0.0136
18	111.6000	0.4250	4067.4150	687.1849	0.0934	0.0158
19	111.6250	0.4500	4562.9100	795.0046	0.1047	0.0183
20	111.6500	0.4750	5058.4050	915.2179	0.1161	0.0210
21	111.6750	0.5000	5553.9000	1047.8235	0.1275	0.0241
22	111.7000	0.5250	6049.3950	1192.8205	0.1389	0.0274
23	111.7250	0.5500	6544.8900	1350.2085	0.1502	0.0310
24	111.7500	0.5750	7040.3850	1519.9868	0.1616	0.0349
25	111.7750	0.6000	7535.8800	1702.1550	0.1730	0.0391
26	111.7875	0.6125	7889.8050	1798.5570	0.1811	0.0413
27	111.8000	0.6250	8243.7300	1899.3835	0.1892	0.0436
28	111.8125	0.6375	8597.6550	2004.6344	0.1974	0.0460
29	111.8250	0.6500	8951.5800	2114.3097	0.2055	0.0485

30	111.8375	0.6625	9305.5050	2228.4094	0.2136	0.0512
31	111.8500	0.6750	9659.4300	2346.9333	0.2218	0.0539
32	111.8625	0.6875	10013.3550	2469.8816	0.2299	0.0567
33	111.8750	0.7000	10367.2800	2597.2542	0.2380	0.0596
34	118.0800	6.9050	10367.2800	66926.2266	0.2380	1.5364

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| Variable storage data for node | B-12
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	111.7000	0.0000	4.3560	0.0000	0.0001	0.0000
2	112.4712	0.7712	4.3560	3.3596	0.0001	0.0001
3	113.2425	1.5425	4.3560	6.7191	0.0001	0.0002
4	114.0138	2.3137	4.3560	10.0787	0.0001	0.0002
5	114.7850	3.0850	4.3560	13.4383	0.0001	0.0003
6	115.5563	3.8563	4.3560	16.7978	0.0001	0.0004
7	116.3275	4.6275	4.3560	20.1574	0.0001	0.0005
8	117.0987	5.3987	4.3560	23.5170	0.0001	0.0005
9	117.8700	6.1700	4.3560	26.8765	0.0001	0.0006
10	117.8950	6.1950	150.8265	28.3833	0.0035	0.0007
11	117.9200	6.2200	297.2970	33.8823	0.0068	0.0008
12	117.9450	6.2450	443.7675	43.0847	0.0102	0.0010
13	117.9700	6.2700	590.2380	55.9663	0.0135	0.0013
14	117.9950	6.2950	736.7085	72.5194	0.0169	0.0017
15	118.0200	6.3200	883.1790	92.7403	0.0203	0.0021
16	118.0450	6.3450	1029.6495	116.6273	0.0236	0.0027
17	118.0700	6.3700	1176.1200	144.1791	0.0270	0.0033
18	118.0950	6.3950	1475.5950	177.2548	0.0339	0.0041
19	118.1200	6.4200	1775.0700	217.8306	0.0408	0.0050
20	118.1450	6.4450	2074.5450	265.9021	0.0476	0.0061
21	118.1700	6.4700	2374.0200	321.4671	0.0545	0.0074
22	118.1950	6.4950	2673.4950	384.5240	0.0614	0.0088
23	118.2200	6.5200	2972.9700	455.0717	0.0683	0.0104
24	118.2450	6.5450	3272.4450	533.1095	0.0751	0.0122
25	118.2700	6.5700	3571.9200	618.6367	0.0820	0.0142
26	118.2950	6.5950	4067.4150	714.0614	0.0934	0.0164
27	118.3200	6.6200	4562.9100	821.8811	0.1047	0.0189
28	118.3450	6.6450	5058.4050	942.0944	0.1161	0.0216
29	118.3700	6.6700	5553.9000	1074.7000	0.1275	0.0247
30	118.3950	6.6950	6049.3950	1219.6971	0.1389	0.0280
31	118.4200	6.7200	6544.8900	1377.0850	0.1502	0.0316
32	118.4450	6.7450	7040.3850	1546.8633	0.1616	0.0355
33	118.4700	6.7700	7535.8800	1729.0315	0.1730	0.0397
34	118.4825	6.7825	7889.8050	1825.4336	0.1811	0.0419
35	118.4950	6.7950	8243.7300	1926.2601	0.1892	0.0442
36	118.5075	6.8075	8597.6550	2031.5110	0.1974	0.0466
37	118.5200	6.8200	8951.5800	2141.1862	0.2055	0.0492
38	118.5325	6.8325	9305.5050	2255.2859	0.2136	0.0518
39	118.5450	6.8450	9659.4300	2373.8098	0.2218	0.0545
40	118.5575	6.8575	10013.3550	2496.7581	0.2299	0.0573
41	118.5700	6.8700	10367.2800	2624.1307	0.2380	0.0602
42	118.8700	7.1700	10367.2800	5734.3147	0.2380	0.1316

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| Variable storage data for node | B-10
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	112.3000	0.0000	4.3560	0.0000	0.0001	0.0000
2	113.0837	0.7837	4.3560	3.4140	0.0001	0.0001
3	113.8675	1.5675	4.3560	6.8280	0.0001	0.0002
4	114.6512	2.3512	4.3560	10.2420	0.0001	0.0002
5	115.4350	3.1350	4.3560	13.6561	0.0001	0.0003
6	116.2188	3.9187	4.3560	17.0701	0.0001	0.0004
7	117.0025	4.7025	4.3560	20.4841	0.0001	0.0005
8	117.7862	5.4863	4.3560	23.8981	0.0001	0.0005
9	118.5700	6.2700	4.3560	27.3121	0.0001	0.0006
10	118.5950	6.2950	150.8265	28.8189	0.0035	0.0007
11	118.6200	6.3200	297.2970	34.3179	0.0068	0.0008
12	118.6450	6.3450	443.7675	43.5203	0.0102	0.0010
13	118.6700	6.3700	590.2380	56.4019	0.0135	0.0013
14	118.6950	6.3950	736.7085	72.9550	0.0169	0.0017
15	118.7200	6.4200	883.1790	93.1759	0.0203	0.0021
16	118.7450	6.4450	1029.6495	117.0629	0.0236	0.0027
17	118.7700	6.4700	1176.1200	144.6147	0.0270	0.0033
18	118.7950	6.4950	1475.5950	177.6904	0.0339	0.0041
19	118.8200	6.5200	1775.0700	218.2662	0.0408	0.0050
20	118.8450	6.5450	2074.5450	266.3377	0.0476	0.0061
21	118.8700	6.5700	2374.0200	321.9027	0.0545	0.0074
22	118.8950	6.5950	2673.4950	384.9596	0.0614	0.0088
23	118.9200	6.6200	2972.9700	455.5073	0.0683	0.0105
24	118.9450	6.6450	3272.4450	533.5451	0.0751	0.0122
25	118.9700	6.6700	3571.9200	619.0723	0.0820	0.0142
26	118.9950	6.6950	4067.4150	714.4970	0.0934	0.0164
27	119.0200	6.7200	4562.9100	822.3167	0.1047	0.0189
28	119.0450	6.7450	5058.4050	942.5300	0.1161	0.0216
29	119.0700	6.7700	5553.9000	1075.1356	0.1275	0.0247
30	119.0950	6.7950	6049.3950	1220.1327	0.1389	0.0280
31	119.1200	6.8200	6544.8900	1377.5206	0.1502	0.0316
32	119.1450	6.8450	7040.3850	1547.2989	0.1616	0.0355
33	119.1700	6.8700	7535.8800	1729.4671	0.1730	0.0397
34	119.1825	6.8825	7889.8050	1825.8692	0.1811	0.0419
35	119.1950	6.8950	8243.7300	1926.6957	0.1892	0.0442
36	119.2075	6.9075	8597.6550	2031.9466	0.1974	0.0466
37	119.2200	6.9200	8951.5800	2141.6218	0.2055	0.0492
38	119.2325	6.9325	9305.5050	2255.7215	0.2136	0.0518
39	119.2450	6.9450	9659.4300	2374.2454	0.2218	0.0545
40	119.2575	6.9575	10013.3550	2497.1937	0.2299	0.0573
41	119.2700	6.9700	10367.2800	2624.5663	0.2380	0.0603
42	119.5700	7.2700	10367.2800	5734.7503	0.2380	0.1317

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| Variable storage data for node | B-8
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	112.8250	0.0000	4.3560	0.0000	0.0001	0.0000
2	113.6119	0.7869	4.3560	3.4276	0.0001	0.0001
3	114.3988	1.5737	4.3560	6.8553	0.0001	0.0002
4	115.1856	2.3606	4.3560	10.2829	0.0001	0.0002
5	115.9725	3.1475	4.3560	13.7105	0.0001	0.0003
6	116.7594	3.9344	4.3560	17.1381	0.0001	0.0004
7	117.5463	4.7212	4.3560	20.5658	0.0001	0.0005
8	118.3331	5.5081	4.3560	23.9934	0.0001	0.0006
9	119.1200	6.2950	4.3560	27.4210	0.0001	0.0006
10	119.1450	6.3200	150.8265	28.9278	0.0035	0.0007
11	119.1700	6.3450	297.2970	34.4268	0.0068	0.0008
12	119.1950	6.3700	443.7675	43.6292	0.0102	0.0010
13	119.2200	6.3950	590.2380	56.5108	0.0135	0.0013
14	119.2450	6.4200	736.7085	73.0639	0.0169	0.0017
15	119.2700	6.4450	883.1790	93.2848	0.0203	0.0021
16	119.2950	6.4700	1029.6495	117.1718	0.0236	0.0027
17	119.3200	6.4950	1176.1200	144.7236	0.0270	0.0033
18	119.3450	6.5200	1475.5950	177.7993	0.0339	0.0041

19	119.3700	6.5450	1775.0700	218.3751	0.0408	0.0050
20	119.3950	6.5700	2074.5450	266.4466	0.0476	0.0061
21	119.4200	6.5950	2374.0200	322.0116	0.0545	0.0074
22	119.4450	6.6200	2673.4950	385.0685	0.0614	0.0088
23	119.4700	6.6450	2972.9700	455.6162	0.0683	0.0105
24	119.4950	6.6700	3272.4450	533.6540	0.0751	0.0123
25	119.5200	6.6950	3571.9200	619.1812	0.0820	0.0142
26	119.5450	6.7200	4067.4150	714.6059	0.0934	0.0164
27	119.5700	6.7450	4562.9100	822.4256	0.1047	0.0189
28	119.5950	6.7700	5058.4050	942.6389	0.1161	0.0216
29	119.6200	6.7950	5553.9000	1075.2445	0.1275	0.0247
30	119.6450	6.8200	6049.3950	1220.2416	0.1389	0.0280
31	119.6700	6.8450	6544.8900	1377.6295	0.1502	0.0316
32	119.6950	6.8700	7040.3850	1547.4078	0.1616	0.0355
33	119.7200	6.8950	7535.8800	1729.5760	0.1730	0.0397
34	119.7325	6.9075	7889.8050	1825.9781	0.1811	0.0419
35	119.7450	6.9200	8243.7300	1926.8046	0.1892	0.0442
36	119.7575	6.9325	8597.6550	2032.0555	0.1974	0.0466
37	119.7700	6.9450	8951.5800	2141.7307	0.2055	0.0492
38	119.7825	6.9575	9305.5050	2255.8304	0.2136	0.0518
39	119.7950	6.9700	9659.4300	2374.3543	0.2218	0.0545
40	119.8075	6.9825	10013.3550	2497.3026	0.2299	0.0573
41	119.8200	6.9950	10367.2800	2624.6752	0.2380	0.0603
42	120.1200	7.2950	10367.2800	5734.8592	0.2380	0.1317

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| Variable storage data for node | B-6
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	113.3500	0.0000	4.3560	0.0000	0.0001	0.0000
2	114.1062	0.7562	4.3560	3.2942	0.0001	0.0001
3	114.8625	1.5125	4.3560	6.5884	0.0001	0.0002
4	115.6187	2.2687	4.3560	9.8827	0.0001	0.0002
5	116.3750	3.0250	4.3560	13.1769	0.0001	0.0003
6	117.1312	3.7812	4.3560	16.4711	0.0001	0.0004
7	117.8875	4.5375	4.3560	19.7653	0.0001	0.0005
8	118.6437	5.2938	4.3560	23.0596	0.0001	0.0005
9	119.4000	6.0500	4.3560	26.3538	0.0001	0.0006
10	119.4250	6.0750	150.8265	27.8606	0.0035	0.0006
11	119.4500	6.1000	297.2970	33.3596	0.0068	0.0008
12	119.4750	6.1250	443.7675	42.5620	0.0102	0.0010
13	119.5000	6.1500	590.2380	55.4436	0.0135	0.0013
14	119.5250	6.1750	736.7085	71.9966	0.0169	0.0017
15	119.5500	6.2000	883.1790	92.2176	0.0203	0.0021
16	119.5750	6.2250	1029.6495	116.1045	0.0236	0.0027
17	119.6000	6.2500	1176.1200	143.6564	0.0270	0.0033
18	119.6250	6.2750	1475.5950	176.7321	0.0339	0.0041
19	119.6500	6.3000	1775.0700	217.3078	0.0408	0.0050
20	119.6750	6.3250	2074.5450	265.3794	0.0476	0.0061
21	119.7000	6.3500	2374.0200	320.9444	0.0545	0.0074
22	119.7250	6.3750	2673.4950	384.0013	0.0614	0.0088
23	119.7500	6.4000	2972.9700	454.5490	0.0683	0.0104
24	119.7750	6.4250	3272.4450	532.5868	0.0751	0.0122
25	119.8000	6.4500	3571.9200	618.1140	0.0820	0.0142
26	119.8250	6.4750	4067.4150	713.5387	0.0934	0.0164
27	119.8500	6.5000	4562.9100	821.3584	0.1047	0.0189
28	119.8750	6.5250	5058.4050	941.5717	0.1161	0.0216
29	119.9000	6.5500	5553.9000	1074.1773	0.1275	0.0247
30	119.9250	6.5750	6049.3950	1219.1743	0.1389	0.0280
31	119.9500	6.6000	6544.8900	1376.5623	0.1502	0.0316
32	119.9750	6.6250	7040.3850	1546.3406	0.1616	0.0355
33	120.0000	6.6500	7535.8800	1728.5088	0.1730	0.0397
34	120.0125	6.6625	7889.8050	1824.9108	0.1811	0.0419
35	120.0250	6.6750	8243.7300	1925.7373	0.1892	0.0442
36	120.0375	6.6875	8597.6550	2030.9882	0.1974	0.0466
37	120.0500	6.7000	8951.5800	2140.6635	0.2055	0.0491
38	120.0625	6.7125	9305.5050	2254.7632	0.2136	0.0518
39	120.0750	6.7250	9659.4300	2373.2871	0.2218	0.0545
40	120.0875	6.7375	10013.3550	2496.2354	0.2299	0.0573
41	120.1000	6.7500	10367.2800	2623.6080	0.2380	0.0602
42	120.4000	7.0500	10367.2800	5733.7920	0.2380	0.1316

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| Variable storage data for node | B-25
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	105.2770	0.0000	4.3560	0.0000	0.0001	0.0000
2	105.3020	0.0250	150.8265	1.5068	0.0035	0.0000
3	105.3270	0.0500	297.2970	7.0058	0.0068	0.0002
4	105.3520	0.0750	443.7675	16.2082	0.0102	0.0004
5	105.3770	0.1000	590.2380	29.0898	0.0135	0.0007
6	105.4020	0.1250	736.7085	45.6428	0.0169	0.0010
7	105.4270	0.1500	883.1790	65.8638	0.0203	0.0015
8	105.4520	0.1750	1029.6495	89.7507	0.0236	0.0021
9	105.4770	0.2000	1176.1200	117.3026	0.0270	0.0027
10	105.5020	0.2250	1475.5950	150.3783	0.0339	0.0035
11	105.5270	0.2500	1775.0700	190.9540	0.0408	0.0044
12	105.5520	0.2750	2074.5450	239.0256	0.0476	0.0055
13	105.5770	0.3000	2374.0200	294.5906	0.0545	0.0068
14	105.6020	0.3250	2673.4950	357.6475	0.0614	0.0082
15	105.6270	0.3500	2972.9700	428.1952	0.0683	0.0098
16	105.6520	0.3750	3272.4450	506.2330	0.0751	0.0116
17	105.6770	0.4000	3571.9200	591.7602	0.0820	0.0136
18	105.7020	0.4250	4067.4150	687.1849	0.0934	0.0158
19	105.7270	0.4500	4562.9100	795.0046	0.1047	0.0183
20	105.7520	0.4750	5058.4050	915.2179	0.1161	0.0210
21	105.7770	0.5000	5553.9000	1047.8235	0.1275	0.0241
22	105.8020	0.5250	6049.3950	1192.8205	0.1389	0.0274
23	105.8270	0.5500	6544.8900	1350.2085	0.1502	0.0310
24	105.8520	0.5750	7040.3850	1519.9868	0.1616	0.0349
25	105.8770	0.6000	7535.8800	1702.1550	0.1730	0.0391
26	105.9020	0.6250	8330.8500	1900.4061	0.1912	0.0436
27	105.9270	0.6500	9125.8200	2118.5390	0.2095	0.0486
28	105.9520	0.6750	9920.7900	2356.5524	0.2278	0.0541
29	105.9770	0.7000	10715.7600	2614.4455	0.2460	0.0600
30	106.0020	0.7250	11510.7300	2892.2174	0.2642	0.0664
31	106.0270	0.7500	12305.7000	3189.8674	0.2825	0.0732
32	106.0520	0.7750	13100.6700	3507.3952	0.3007	0.0805
33	106.0770	0.8000	13895.6400	3844.8003	0.3190	0.0883
34	106.0895	0.8125	14298.5700	4021.0081	0.3282	0.0923
35	106.1020	0.8250	14701.5000	4202.2527	0.3375	0.0965
36	106.1145	0.8375	15104.4300	4388.5341	0.3468	0.1007
37	106.1270	0.8500	15507.3600	4579.8523	0.3560	0.1051
38	106.1395	0.8625	15910.2900	4776.2072	0.3653	0.1096
39	106.1520	0.8750	16313.2200	4977.5989	0.3745	0.1143
40	106.1645	0.8875	16716.1500	5184.0274	0.3838	0.1190
41	106.1770	0.9000	17119.0800	5395.4925	0.3930	0.1239
42	113.2700	7.9930	17119.0800	126821.1270	0.3930	2.9114

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| Variable storage data for node | B-29
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft

Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	105.8460	0.0000	4.3560	0.0000	0.0001	0.0000
2	105.8710	0.0250	150.8265	1.5068	0.0035	0.0000
3	105.8960	0.0500	297.2970	7.0058	0.0068	0.0002
4	105.9210	0.0750	443.7675	16.2082	0.0102	0.0004
5	105.9460	0.1000	590.2380	29.0898	0.0135	0.0007
6	105.9710	0.1250	736.7085	45.6428	0.0169	0.0010
7	105.9960	0.1500	883.1790	65.8638	0.0203	0.0015
8	106.0210	0.1750	1029.6495	89.7507	0.0236	0.0021
9	106.0460	0.2000	1176.1200	117.3026	0.0270	0.0027
10	106.0710	0.2250	1475.5950	150.3783	0.0339	0.0035
11	106.0960	0.2500	1775.0700	190.9540	0.0408	0.0044
12	106.1210	0.2750	2074.5450	239.0256	0.0476	0.0055
13	106.1460	0.3000	2374.0200	294.5906	0.0545	0.0068
14	106.1710	0.3250	2673.4950	357.6475	0.0614	0.0082
15	106.1960	0.3500	2972.9700	428.1952	0.0683	0.0098
16	106.2210	0.3750	3272.4450	506.2330	0.0751	0.0116
17	106.2460	0.4000	3571.9200	591.7602	0.0820	0.0136
18	106.2710	0.4250	4067.4150	687.1849	0.0934	0.0158
19	106.2960	0.4500	4562.9100	795.0046	0.1047	0.0183
20	106.3210	0.4750	5058.4050	915.2179	0.1161	0.0210
21	106.3460	0.5000	5553.9000	1047.8235	0.1275	0.0241
22	106.3710	0.5250	6049.3950	1192.8205	0.1389	0.0274
23	106.3960	0.5500	6544.8900	1350.2085	0.1502	0.0310
24	106.4210	0.5750	7040.3850	1519.9868	0.1616	0.0349
25	106.4460	0.6000	7535.8800	1702.1550	0.1730	0.0391
26	106.4710	0.6250	8330.8500	1900.4061	0.1912	0.0436
27	106.4960	0.6500	9125.8200	2118.5390	0.2095	0.0486
28	106.5210	0.6750	9920.7900	2356.5524	0.2278	0.0541
29	106.5460	0.7000	10715.7600	2614.4455	0.2460	0.0600
30	106.5710	0.7250	11510.7300	2892.2174	0.2642	0.0664
31	106.5960	0.7500	12305.7000	3189.8674	0.2825	0.0732
32	106.6210	0.7750	13100.6700	3507.3952	0.3007	0.0805
33	106.6460	0.8000	13895.6400	3844.8003	0.3190	0.0883
34	106.6585	0.8125	14298.5700	4021.0081	0.3282	0.0923
35	106.6710	0.8250	14701.5000	4202.2527	0.3375	0.0965
36	106.6835	0.8375	15104.4300	4388.5341	0.3468	0.1007
37	106.6960	0.8500	15507.3600	4579.8523	0.3560	0.1051
38	106.7085	0.8625	15910.2900	4776.2072	0.3653	0.1096
39	106.7210	0.8750	16313.2200	4977.5989	0.3745	0.1143
40	106.7335	0.8875	16716.1500	5184.0274	0.3838	0.1190
41	106.7460	0.9000	17119.0800	5395.4925	0.3930	0.1239
42	113.4300	7.5840	17119.0800	119819.4233	0.3930	2.7507

Variable storage data for node | B-23						
Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	105.5760	0.0000	4.3560	0.0000	0.0001	0.0000
2	105.6010	0.0250	150.8265	1.5068	0.0035	0.0000
3	105.6260	0.0500	297.2970	7.0058	0.0068	0.0002
4	105.6510	0.0750	443.7675	16.2082	0.0102	0.0004
5	105.6760	0.1000	590.2380	29.0898	0.0135	0.0007
6	105.7010	0.1250	736.7085	45.6428	0.0169	0.0010
7	105.7260	0.1500	883.1790	65.8638	0.0203	0.0015
8	105.7510	0.1750	1029.6495	89.7507	0.0236	0.0021
9	105.7760	0.2000	1176.1200	117.3026	0.0270	0.0027
10	105.8010	0.2250	1475.5950	150.3783	0.0339	0.0035
11	105.8260	0.2500	1775.0700	190.9540	0.0408	0.0044
12	105.8510	0.2750	2074.5450	239.0256	0.0476	0.0055
13	105.8760	0.3000	2374.0200	294.5906	0.0545	0.0068
14	105.9010	0.3250	2673.4950	357.6475	0.0614	0.0082
15	105.9260	0.3500	2972.9700	428.1952	0.0683	0.0098
16	105.9510	0.3750	3272.4450	506.2330	0.0751	0.0116
17	105.9760	0.4000	3571.9200	591.7602	0.0820	0.0136
18	106.0010	0.4250	4067.4150	687.1849	0.0934	0.0158
19	106.0260	0.4500	4562.9100	795.0046	0.1047	0.0183
20	106.0510	0.4750	5058.4050	915.2179	0.1161	0.0210
21	106.0760	0.5000	5553.9000	1047.8235	0.1275	0.0241
22	106.1010	0.5250	6049.3950	1192.8205	0.1389	0.0274
23	106.1260	0.5500	6544.8900	1350.2085	0.1502	0.0310
24	106.1510	0.5750	7040.3850	1519.9868	0.1616	0.0349
25	106.1760	0.6000	7535.8800	1702.1550	0.1730	0.0391
26	106.2010	0.6250	8330.8500	1900.4061	0.1912	0.0436
27	106.2260	0.6500	9125.8200	2118.5390	0.2095	0.0486
28	106.2510	0.6750	9920.7900	2356.5524	0.2278	0.0541
29	106.2760	0.7000	10715.7600	2614.4455	0.2460	0.0600
30	106.3010	0.7250	11510.7300	2892.2174	0.2642	0.0664
31	106.3260	0.7500	12305.7000	3189.8674	0.2825	0.0732
32	106.3510	0.7750	13100.6700	3507.3952	0.3007	0.0805
33	106.3760	0.8000	13895.6400	3844.8003	0.3190	0.0883
34	106.3885	0.8125	14298.5700	4021.0081	0.3282	0.0923
35	106.4010	0.8250	14701.5000	4202.2527	0.3375	0.0965
36	106.4135	0.8375	15104.4300	4388.5341	0.3468	0.1007
37	106.4260	0.8500	15507.3600	4579.8523	0.3560	0.1051
38	106.4385	0.8625	15910.2900	4776.2072	0.3653	0.1096
39	106.4510	0.8750	16313.2200	4977.5989	0.3745	0.1143
40	106.4635	0.8875	16716.1500	5184.0274	0.3838	0.1190
41	106.4760	0.9000	17119.0800	5395.4925	0.3930	0.1239
42	112.9000	7.3240	17119.0800	115368.4625	0.3930	2.6485

Variable storage data for node | B-31						
Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	106.4000	0.0000	4.3560	0.0000	0.0001	0.0000
2	106.4250	0.0250	150.8265	1.5068	0.0035	0.0000
3	106.4500	0.0500	297.2970	7.0058	0.0068	0.0002
4	106.4750	0.0750	443.7675	16.2082	0.0102	0.0004
5	106.5000	0.1000	590.2380	29.0898	0.0135	0.0007
6	106.5250	0.1250	736.7085	45.6428	0.0169	0.0010
7	106.5500	0.1500	883.1790	65.8638	0.0203	0.0015
8	106.5750	0.1750	1029.6495	89.7507	0.0236	0.0021
9	106.6000	0.2000	1176.1200	117.3026	0.0270	0.0027
10	106.6250	0.2250	1475.5950	150.3783	0.0339	0.0035
11	106.6500	0.2500	1775.0700	190.9540	0.0408	0.0044
12	106.6750	0.2750	2074.5450	239.0256	0.0476	0.0055
13	106.7000	0.3000	2374.0200	294.5906	0.0545	0.0068
14	106.7250	0.3250	2673.4950	357.6475	0.0614	0.0082
15	106.7500	0.3500	2972.9700	428.1952	0.0683	0.0098
16	106.7750	0.3750	3272.4450	506.2330	0.0751	0.0116
17	106.8000	0.4000	3571.9200	591.7602	0.0820	0.0136
18	106.8250	0.4250	4067.4150	687.1849	0.0934	0.0158
19	106.8500	0.4500	4562.9100	795.0046	0.1047	0.0183
20	106.8750	0.4750	5058.4050	915.2179	0.1161	0.0210
21	106.9000	0.5000	5553.9000	1047.8235	0.1275	0.0241
22	106.9250	0.5250	6049.3950	1192.8205	0.1389	0.0274
23	106.9500	0.5500	6544.8900	1350.2085	0.1502	0.0310
24	106.9750	0.5750	7040.3850	1519.9868	0.1616	0.0349
25	107.0000	0.6000	7535.8800	1702.1550	0.1730	0.0391
26	107.0250	0.6250	8330.8500	1900.4061	0.1912	0.0436
27	107.0500	0.6500	9125.8200	2118.5390	0.2095	0.0486
28	107.0750	0.6750	9920.7900	2356.5524	0.2278	0.0541
29	107.1000	0.7000	10715.7600	2614.4455	0.2460	0.0600

30	107.1250	0.7250	11510.7300	2892.2174	0.2642	0.0664
31	107.1500	0.7500	12305.7000	3189.8674	0.2825	0.0732
32	107.1750	0.7750	13100.6700	3507.3952	0.3007	0.0805
33	107.2000	0.8000	13895.6400	3844.8003	0.3190	0.0883
34	107.2125	0.8125	14298.5700	4021.0081	0.3282	0.0923
35	107.2250	0.8250	14701.5000	4202.2527	0.3375	0.0965
36	107.2375	0.8375	15104.4300	4388.5341	0.3468	0.1007
37	107.2500	0.8500	15507.3600	4579.8523	0.3560	0.1051
38	107.2625	0.8625	15910.2900	4776.2072	0.3653	0.1096
39	107.2750	0.8750	16313.2200	4977.5989	0.3745	0.1143
40	107.2875	0.8875	16716.1500	5184.0274	0.3838	0.1190
41	107.3000	0.9000	17119.0800	5395.4925	0.3930	0.1239
42	113.7000	7.3000	17119.0800	114957.6045	0.3930	2.6391

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| Variable storage data for node | B-21
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	106.1760	0.0000	4.3560	0.0000	0.0001	0.0000
2	106.2010	0.0250	150.8265	1.5068	0.0035	0.0000
3	106.2260	0.0500	297.2970	7.0058	0.0068	0.0002
4	106.2510	0.0750	443.7675	16.2082	0.0102	0.0004
5	106.2760	0.1000	590.2380	29.0898	0.0135	0.0007
6	106.3010	0.1250	736.7085	45.6428	0.0169	0.0010
7	106.3260	0.1500	883.1790	65.8638	0.0203	0.0015
8	106.3510	0.1750	1029.6495	89.7507	0.0236	0.0021
9	106.3760	0.2000	1176.1200	117.3026	0.0270	0.0027
10	106.4010	0.2250	1475.5950	150.3783	0.0339	0.0035
11	106.4260	0.2500	1775.0700	190.9540	0.0408	0.0044
12	106.4510	0.2750	2074.5450	239.0256	0.0476	0.0055
13	106.4760	0.3000	2374.0200	294.5906	0.0545	0.0068
14	106.5010	0.3250	2673.4950	357.6475	0.0614	0.0082
15	106.5260	0.3500	2972.9700	428.1952	0.0683	0.0098
16	106.5510	0.3750	3272.4450	506.2330	0.0751	0.0116
17	106.5760	0.4000	3571.9200	591.7602	0.0820	0.0136
18	106.6010	0.4250	4067.4150	687.1849	0.0934	0.0158
19	106.6260	0.4500	4562.9100	795.0046	0.1047	0.0183
20	106.6510	0.4750	5058.4050	915.2179	0.1161	0.0210
21	106.6760	0.5000	5553.9000	1047.8235	0.1275	0.0241
22	106.7010	0.5250	6049.3950	1192.8205	0.1389	0.0274
23	106.7260	0.5500	6544.8900	1350.2085	0.1502	0.0310
24	106.7510	0.5750	7040.3850	1519.9868	0.1616	0.0349
25	106.7760	0.6000	7535.8800	1702.1550	0.1730	0.0391
26	106.8010	0.6250	8330.8500	1900.4061	0.1912	0.0436
27	106.8260	0.6500	9125.8200	2118.5390	0.2095	0.0486
28	106.8510	0.6750	9920.7900	2356.5524	0.2278	0.0541
29	106.8760	0.7000	10715.7600	2614.4455	0.2460	0.0600
30	106.9010	0.7250	11510.7300	2892.2174	0.2642	0.0664
31	106.9260	0.7500	12305.7000	3189.8674	0.2825	0.0732
32	106.9510	0.7750	13100.6700	3507.3952	0.3007	0.0805
33	106.9760	0.8000	13895.6400	3844.8003	0.3190	0.0883
34	106.9885	0.8125	14298.5700	4021.0081	0.3282	0.0923
35	107.0010	0.8250	14701.5000	4202.2527	0.3375	0.0965
36	107.0135	0.8375	15104.4300	4388.5341	0.3468	0.1007
37	107.0260	0.8500	15507.3600	4579.8523	0.3560	0.1051
38	107.0385	0.8625	15910.2900	4776.2072	0.3653	0.1096
39	107.0510	0.8750	16313.2200	4977.5989	0.3745	0.1143
40	107.0635	0.8875	16716.1500	5184.0274	0.3838	0.1190
41	107.0760	0.9000	17119.0800	5395.4925	0.3930	0.1239
42	114.0500	7.8740	17119.0800	124783.9565	0.3930	2.8646

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| Variable storage data for node | B-17
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	106.6760	0.0000	4.3560	0.0000	0.0001	0.0000
2	106.7010	0.0250	150.8265	1.5068	0.0035	0.0000
3	106.7260	0.0500	297.2970	7.0058	0.0068	0.0002
4	106.7510	0.0750	443.7675	16.2082	0.0102	0.0004
5	106.7760	0.1000	590.2380	29.0898	0.0135	0.0007
6	106.8010	0.1250	736.7085	45.6428	0.0169	0.0010
7	106.8260	0.1500	883.1790	65.8638	0.0203	0.0015
8	106.8510	0.1750	1029.6495	89.7507	0.0236	0.0021
9	106.8760	0.2000	1176.1200	117.3026	0.0270	0.0027
10	106.9010	0.2250	1475.5950	150.3783	0.0339	0.0035
11	106.9260	0.2500	1775.0700	190.9540	0.0408	0.0044
12	106.9510	0.2750	2074.5450	239.0256	0.0476	0.0055
13	106.9760	0.3000	2374.0200	294.5906	0.0545	0.0068
14	107.0010	0.3250	2673.4950	357.6475	0.0614	0.0082
15	107.0260	0.3500	2972.9700	428.1952	0.0683	0.0098
16	107.0510	0.3750	3272.4450	506.2330	0.0751	0.0116
17	107.0760	0.4000	3571.9200	591.7602	0.0820	0.0136
18	107.1010	0.4250	4067.4150	687.1849	0.0934	0.0158
19	107.1260	0.4500	4562.9100	795.0046	0.1047	0.0183
20	107.1510	0.4750	5058.4050	915.2179	0.1161	0.0210
21	107.1760	0.5000	5553.9000	1047.8235	0.1275	0.0241
22	107.2010	0.5250	6049.3950	1192.8205	0.1389	0.0274
23	107.2260	0.5500	6544.8900	1350.2085	0.1502	0.0310
24	107.2510	0.5750	7040.3850	1519.9868	0.1616	0.0349
25	107.2760	0.6000	7535.8800	1702.1550	0.1730	0.0391
26	107.3010	0.6250	8330.8500	1900.4061	0.1912	0.0436
27	107.3260	0.6500	9125.8200	2118.5390	0.2095	0.0486
28	107.3510	0.6750	9920.7900	2356.5524	0.2278	0.0541
29	107.3760	0.7000	10715.7600	2614.4455	0.2460	0.0600
30	107.4010	0.7250	11510.7300	2892.2174	0.2642	0.0664
31	107.4260	0.7500	12305.7000	3189.8674	0.2825	0.0732
32	107.4510	0.7750	13100.6700	3507.3952	0.3007	0.0805
33	107.4760	0.8000	13895.6400	3844.8003	0.3190	0.0883
34	107.4885	0.8125	14298.5700	4021.0081	0.3282	0.0923
35	107.5010	0.8250	14701.5000	4202.2527	0.3375	0.0965
36	107.5135	0.8375	15104.4300	4388.5341	0.3468	0.1007
37	107.5260	0.8500	15507.3600	4579.8523	0.3560	0.1051
38	107.5385	0.8625	15910.2900	4776.2072	0.3653	0.1096
39	107.5510	0.8750	16313.2200	4977.5989	0.3745	0.1143
40	107.5635	0.8875	16716.1500	5184.0274	0.3838	0.1190
41	107.5760	0.9000	17119.0800	5395.4925	0.3930	0.1239
42	115.2600	8.5840	17119.0800	136938.5033	0.3930	3.1437

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| Variable storage data for node | B-15
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	106.8760	0.0000	4.3560	0.0000	0.0001	0.0000
2	106.9010	0.0250	150.8265	1.5068	0.0035	0.0000
3	106.9260	0.0500	297.2970	7.0058	0.0068	0.0002
4	106.9510	0.0750	443.7675	16.2082	0.0102	0.0004
5	106.9760	0.1000	590.2380	29.0898	0.0135	0.0007
6	107.0010	0.1250	736.7085	45.6428	0.0169	0.0010
7	107.0260	0.1500	883.1790	65.8638	0.0203	0.0015
8	107.0510	0.1750	1029.6495	89.7507	0.0236	0.0021
9	107.0760	0.2000	1176.1200	117.3026	0.0270	0.0027
10	107.1010	0.2250	1475.5950	150.3783	0.0339	0.0035

11	107.1260	0.2500	1775.0700	190.9540	0.0408	0.0044
12	107.1510	0.2750	2074.5450	239.0256	0.0476	0.0055
13	107.1760	0.3000	2374.0200	294.5906	0.0545	0.0068
14	107.2010	0.3250	2673.4950	357.6475	0.0614	0.0082
15	107.2260	0.3500	2972.9700	428.1952	0.0683	0.0098
16	107.2510	0.3750	3272.4450	506.2330	0.0751	0.0116
17	107.2760	0.4000	3571.9200	591.7602	0.0820	0.0136
18	107.3010	0.4250	4067.4150	687.1849	0.0934	0.0158
19	107.3260	0.4500	4562.9100	795.0046	0.1047	0.0183
20	107.3510	0.4750	5058.4050	915.2179	0.1161	0.0210
21	107.3760	0.5000	5553.9000	1047.8235	0.1275	0.0241
22	107.4010	0.5250	6049.3950	1192.8205	0.1389	0.0274
23	107.4260	0.5500	6544.8900	1350.2085	0.1502	0.0310
24	107.4510	0.5750	7040.3850	1519.9868	0.1616	0.0349
25	107.4760	0.6000	7535.8800	1702.1550	0.1730	0.0391
26	107.5010	0.6250	8330.8500	1900.4061	0.1912	0.0436
27	107.5260	0.6500	9125.8200	2118.5390	0.2095	0.0486
28	107.5510	0.6750	9920.7900	2356.5524	0.2278	0.0541
29	107.5760	0.7000	10715.7600	2614.4455	0.2460	0.0600
30	107.6010	0.7250	11510.7300	2892.2174	0.2642	0.0664
31	107.6260	0.7500	12305.7000	3189.8674	0.2825	0.0732
32	107.6510	0.7750	13100.6700	3507.3952	0.3007	0.0805
33	107.6760	0.8000	13895.6400	3844.8003	0.3190	0.0883
34	107.6885	0.8125	14298.5700	4021.0081	0.3282	0.0923
35	107.7010	0.8250	14701.5000	4202.2527	0.3375	0.0965
36	107.7135	0.8375	15104.4300	4388.5341	0.3468	0.1007
37	107.7260	0.8500	15507.3600	4579.8523	0.3560	0.1051
38	107.7385	0.8625	15910.2900	4776.2072	0.3653	0.1096
39	107.7510	0.8750	16313.2200	4977.5989	0.3745	0.1143
40	107.7635	0.8875	16716.1500	5184.0274	0.3838	0.1190
41	107.7760	0.9000	17119.0800	5395.4925	0.3930	0.1239
42	115.2600	8.3840	17119.0800	133514.6873	0.3930	3.0651

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| Variable storage data for node | B-13
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	107.3770	0.0000	4.3560	0.0000	0.0001	0.0000
2	107.4020	0.0250	150.8265	1.5068	0.0035	0.0000
3	107.4270	0.0500	297.2970	7.0058	0.0068	0.0002
4	107.4520	0.0750	443.7675	16.2082	0.0102	0.0004
5	107.4770	0.1000	590.2380	29.0898	0.0135	0.0007
6	107.5020	0.1250	736.7085	45.6428	0.0169	0.0010
7	107.5270	0.1500	883.1790	65.8638	0.0203	0.0015
8	107.5520	0.1750	1029.6495	89.7507	0.0236	0.0021
9	107.5770	0.2000	1176.1200	117.3026	0.0270	0.0027
10	107.6020	0.2250	1475.5950	150.3783	0.0339	0.0035
11	107.6270	0.2500	1775.0700	190.9540	0.0408	0.0044
12	107.6520	0.2750	2074.5450	239.0256	0.0476	0.0055
13	107.6770	0.3000	2374.0200	294.5906	0.0545	0.0068
14	107.7020	0.3250	2673.4950	357.6475	0.0614	0.0082
15	107.7270	0.3500	2972.9700	428.1952	0.0683	0.0098
16	107.7520	0.3750	3272.4450	506.2330	0.0751	0.0116
17	107.7770	0.4000	3571.9200	591.7602	0.0820	0.0136
18	107.8020	0.4250	4067.4150	687.1849	0.0934	0.0158
19	107.8270	0.4500	4562.9100	795.0046	0.1047	0.0183
20	107.8520	0.4750	5058.4050	915.2179	0.1161	0.0210
21	107.8770	0.5000	5553.9000	1047.8235	0.1275	0.0241
22	107.9020	0.5250	6049.3950	1192.8205	0.1389	0.0274
23	107.9270	0.5500	6544.8900	1350.2085	0.1502	0.0310
24	107.9520	0.5750	7040.3850	1519.9868	0.1616	0.0349
25	107.9770	0.6000	7535.8800	1702.1550	0.1730	0.0391
26	108.0020	0.6250	8330.8500	1900.4061	0.1912	0.0436
27	108.0270	0.6500	9125.8200	2118.5390	0.2095	0.0486
28	108.0520	0.6750	9920.7900	2356.5524	0.2278	0.0541
29	108.0770	0.7000	10715.7600	2614.4455	0.2460	0.0600
30	108.1020	0.7250	11510.7300	2892.2174	0.2642	0.0664
31	108.1270	0.7500	12305.7000	3189.8674	0.2825	0.0732
32	108.1520	0.7750	13100.6700	3507.3952	0.3007	0.0805
33	108.1770	0.8000	13895.6400	3844.8003	0.3190	0.0883
34	108.1895	0.8125	14298.5700	4021.0081	0.3282	0.0923
35	108.2020	0.8250	14701.5000	4202.2527	0.3375	0.0965
36	108.2145	0.8375	15104.4300	4388.5341	0.3468	0.1007
37	108.2270	0.8500	15507.3600	4579.8523	0.3560	0.1051
38	108.2395	0.8625	15910.2900	4776.2072	0.3653	0.1096
39	108.2520	0.8750	16313.2200	4977.5989	0.3745	0.1143
40	108.2645	0.8875	16716.1500	5184.0274	0.3838	0.1190
41	108.2770	0.9000	17119.0800	5395.4925	0.3930	0.1239
42	116.4000	9.0230	17119.0800	144453.7794	0.3930	3.3162

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| Variable storage data for node | B-9
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	107.9970	0.0000	4.3560	0.0000	0.0001	0.0000
2	108.0220	0.0250	150.8265	1.5068	0.0035	0.0000
3	108.0470	0.0500	297.2970	7.0058	0.0068	0.0002
4	108.0720	0.0750	443.7675	16.2082	0.0102	0.0004
5	108.0970	0.1000	590.2380	29.0898	0.0135	0.0007
6	108.1220	0.1250	736.7085	45.6428	0.0169	0.0010
7	108.1470	0.1500	883.1790	65.8638	0.0203	0.0015
8	108.1720	0.1750	1029.6495	89.7507	0.0236	0.0021
9	108.1970	0.2000	1176.1200	117.3026	0.0270	0.0027
10	108.2220	0.2250	1475.5950	150.3783	0.0339	0.0035
11	108.2470	0.2500	1775.0700	190.9540	0.0408	0.0044
12	108.2720	0.2750	2074.5450	239.0256	0.0476	0.0055
13	108.2970	0.3000	2374.0200	294.5906	0.0545	0.0068
14	108.3220	0.3250	2673.4950	357.6475	0.0614	0.0082
15	108.3470	0.3500	2972.9700	428.1952	0.0683	0.0098
16	108.3720	0.3750	3272.4450	506.2330	0.0751	0.0116
17	108.3970	0.4000	3571.9200	591.7602	0.0820	0.0136
18	108.4220	0.4250	4067.4150	687.1849	0.0934	0.0158
19	108.4470	0.4500	4562.9100	795.0046	0.1047	0.0183
20	108.4720	0.4750	5058.4050	915.2179	0.1161	0.0210
21	108.4970	0.5000	5553.9000	1047.8235	0.1275	0.0241
22	108.5220	0.5250	6049.3950	1192.8205	0.1389	0.0274
23	108.5470	0.5500	6544.8900	1350.2085	0.1502	0.0310
24	108.5720	0.5750	7040.3850	1519.9868	0.1616	0.0349
25	108.5970	0.6000	7535.8800	1702.1550	0.1730	0.0391
26	108.6220	0.6250	8330.8500	1900.4061	0.1912	0.0436
27	108.6470	0.6500	9125.8200	2118.5390	0.2095	0.0486
28	108.6720	0.6750	9920.7900	2356.5524	0.2278	0.0541
29	108.6970	0.7000	10715.7600	2614.4455	0.2460	0.0600
30	108.7220	0.7250	11510.7300	2892.2174	0.2642	0.0664
31	108.7470	0.7500	12305.7000	3189.8674	0.2825	0.0732
32	108.7720	0.7750	13100.6700	3507.3952	0.3007	0.0805
33	108.7970	0.8000	13895.6400	3844.8003	0.3190	0.0883
34	108.8095	0.8125	14298.5700	4021.0081	0.3282	0.0923
35	108.8220	0.8250	14701.5000	4202.2527	0.3375	0.0965
36	108.8345	0.8375	15104.4300	4388.5341	0.3468	0.1007
37	108.8470	0.8500	15507.3600	4579.8523	0.3560	0.1051
38	108.8595	0.8625	15910.2900	4776.2072	0.3653	0.1096
39	108.8720	0.8750	16313.2200	4977.5989	0.3745	0.1143
40	108.8845	0.8875	16716.1500	5184.0274	0.3838	0.1190

41	108.8970	0.9000	17119.0800	5395.4925	0.3930	0.1239
42	116.4000	8.4030	17119.0800	133839.9498	0.3930	3.0725

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| Variable storage data for node | B-7
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	108.3770	0.0000	4.3560	0.0000	0.0001	0.0000
2	108.4020	0.0250	150.8265	1.5068	0.0035	0.0000
3	108.4270	0.0500	297.2970	7.0058	0.0068	0.0002
4	108.4520	0.0750	443.7675	16.2082	0.0102	0.0004
5	108.4770	0.1000	590.2380	29.0898	0.0135	0.0007
6	108.5020	0.1250	736.7085	45.6428	0.0169	0.0010
7	108.5270	0.1500	883.1790	65.8638	0.0203	0.0015
8	108.5520	0.1750	1029.6495	89.7507	0.0236	0.0021
9	108.5770	0.2000	1176.1200	117.3026	0.0270	0.0027
10	108.6020	0.2250	1475.5950	150.3783	0.0339	0.0035
11	108.6270	0.2500	1775.0700	190.9540	0.0408	0.0044
12	108.6520	0.2750	2074.5450	239.0256	0.0476	0.0055
13	108.6770	0.3000	2374.0200	294.5906	0.0545	0.0068
14	108.7020	0.3250	2673.4950	357.6475	0.0614	0.0082
15	108.7270	0.3500	2972.9700	428.1952	0.0683	0.0098
16	108.7520	0.3750	3272.4450	506.2330	0.0751	0.0116
17	108.7770	0.4000	3571.9200	591.7602	0.0820	0.0136
18	108.8020	0.4250	4067.4150	687.1849	0.0934	0.0158
19	108.8270	0.4500	4562.9100	795.0046	0.1047	0.0183
20	108.8520	0.4750	5058.4050	915.2179	0.1161	0.0210
21	108.8770	0.5000	5553.9000	1047.8235	0.1275	0.0241
22	108.9020	0.5250	6049.3950	1192.8205	0.1389	0.0274
23	108.9270	0.5500	6544.8900	1350.2085	0.1502	0.0310
24	108.9520	0.5750	7040.3850	1519.9868	0.1616	0.0349
25	108.9770	0.6000	7535.8800	1702.1550	0.1730	0.0391
26	109.0020	0.6250	8330.8500	1900.4061	0.1912	0.0436
27	109.0270	0.6500	9125.8200	2118.5390	0.2095	0.0486
28	109.0520	0.6750	9920.7900	2356.5524	0.2278	0.0541
29	109.0770	0.7000	10715.7600	2614.4455	0.2460	0.0600
30	109.1020	0.7250	11510.7300	2892.2174	0.2642	0.0664
31	109.1270	0.7500	12305.7000	3189.8674	0.2825	0.0732
32	109.1520	0.7750	13100.6700	3507.3952	0.3007	0.0805
33	109.1770	0.8000	13895.6400	3844.8003	0.3190	0.0883
34	109.1895	0.8125	14298.5700	4021.0081	0.3282	0.0923
35	109.2020	0.8250	14701.5000	4202.2527	0.3375	0.0965
36	109.2145	0.8375	15104.4300	4388.5341	0.3468	0.1007
37	109.2270	0.8500	15507.3600	4579.8523	0.3560	0.1051
38	109.2395	0.8625	15910.2900	4776.2072	0.3653	0.1096
39	109.2520	0.8750	16313.2200	4977.5989	0.3745	0.1143
40	109.2645	0.8875	16716.1500	5184.0274	0.3838	0.1190
41	109.2770	0.9000	17119.0800	5395.4925	0.3930	0.1239
42	116.3800	8.0030	17119.0800	126992.3178	0.3930	2.9153

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| Variable storage data for node | B-5
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	108.7770	0.0000	4.3560	0.0000	0.0001	0.0000
2	108.8020	0.0250	150.8265	1.5068	0.0035	0.0000
3	108.8270	0.0500	297.2970	7.0058	0.0068	0.0002
4	108.8520	0.0750	443.7675	16.2082	0.0102	0.0004
5	108.8770	0.1000	590.2380	29.0898	0.0135	0.0007
6	108.9020	0.1250	736.7085	45.6428	0.0169	0.0010
7	108.9270	0.1500	883.1790	65.8638	0.0203	0.0015
8	108.9520	0.1750	1029.6495	89.7507	0.0236	0.0021
9	108.9770	0.2000	1176.1200	117.3026	0.0270	0.0027
10	109.0020	0.2250	1475.5950	150.3783	0.0339	0.0035
11	109.0270	0.2500	1775.0700	190.9540	0.0408	0.0044
12	109.0520	0.2750	2074.5450	239.0256	0.0476	0.0055
13	109.0770	0.3000	2374.0200	294.5906	0.0545	0.0068
14	109.1020	0.3250	2673.4950	357.6475	0.0614	0.0082
15	109.1270	0.3500	2972.9700	428.1952	0.0683	0.0098
16	109.1520	0.3750	3272.4450	506.2330	0.0751	0.0116
17	109.1770	0.4000	3571.9200	591.7602	0.0820	0.0136
18	109.2020	0.4250	4067.4150	687.1849	0.0934	0.0158
19	109.2270	0.4500	4562.9100	795.0046	0.1047	0.0183
20	109.2520	0.4750	5058.4050	915.2179	0.1161	0.0210
21	109.2770	0.5000	5553.9000	1047.8235	0.1275	0.0241
22	109.3020	0.5250	6049.3950	1192.8205	0.1389	0.0274
23	109.3270	0.5500	6544.8900	1350.2085	0.1502	0.0310
24	109.3520	0.5750	7040.3850	1519.9868	0.1616	0.0349
25	109.3770	0.6000	7535.8800	1702.1550	0.1730	0.0391
26	109.4020	0.6250	8330.8500	1900.4061	0.1912	0.0436
27	109.4270	0.6500	9125.8200	2118.5390	0.2095	0.0486
28	109.4520	0.6750	9920.7900	2356.5524	0.2278	0.0541
29	109.4770	0.7000	10715.7600	2614.4455	0.2460	0.0600
30	109.5020	0.7250	11510.7300	2892.2174	0.2642	0.0664
31	109.5270	0.7500	12305.7000	3189.8674	0.2825	0.0732
32	109.5520	0.7750	13100.6700	3507.3952	0.3007	0.0805
33	109.5770	0.8000	13895.6400	3844.8003	0.3190	0.0883
34	109.5895	0.8125	14298.5700	4021.0081	0.3282	0.0923
35	109.6020	0.8250	14701.5000	4202.2527	0.3375	0.0965
36	109.6145	0.8375	15104.4300	4388.5341	0.3468	0.1007
37	109.6270	0.8500	15507.3600	4579.8523	0.3560	0.1051
38	109.6395	0.8625	15910.2900	4776.2072	0.3653	0.1096
39	109.6520	0.8750	16313.2200	4977.5989	0.3745	0.1143
40	109.6645	0.8875	16716.1500	5184.0274	0.3838	0.1190
41	109.6770	0.9000	17119.0800	5395.4925	0.3930	0.1239
42	116.6200	7.8430	17119.0800	124253.2650	0.3930	2.8525

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| Variable storage data for node | B-3
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	109.5770	0.0000	4.3560	0.0000	0.0001	0.0000
2	109.6020	0.0250	150.8265	1.5068	0.0035	0.0000
3	109.6270	0.0500	297.2970	7.0058	0.0068	0.0002
4	109.6520	0.0750	443.7675	16.2082	0.0102	0.0004
5	109.6770	0.1000	590.2380	29.0898	0.0135	0.0007
6	109.7020	0.1250	736.7085	45.6428	0.0169	0.0010
7	109.7270	0.1500	883.1790	65.8638	0.0203	0.0015
8	109.7520	0.1750	1029.6495	89.7507	0.0236	0.0021
9	109.7770	0.2000	1176.1200	117.3026	0.0270	0.0027
10	109.8020	0.2250	1475.5950	150.3783	0.0339	0.0035
11	109.8270	0.2500	1775.0700	190.9540	0.0408	0.0044
12	109.8520	0.2750	2074.5450	239.0256	0.0476	0.0055
13	109.8770	0.3000	2374.0200	294.5906	0.0545	0.0068
14	109.9020	0.3250	2673.4950	357.6475	0.0614	0.0082
15	109.9270	0.3500	2972.9700	428.1952	0.0683	0.0098
16	109.9520	0.3750	3272.4450	506.2330	0.0751	0.0116
17	109.9770	0.4000	3571.9200	591.7602	0.0820	0.0136
18	110.0020	0.4250	4067.4150	687.1849	0.0934	0.0158
19	110.0270	0.4500	4562.9100	795.0046	0.1047	0.0183
20	110.0520	0.4750	5058.4050	915.2179	0.1161	0.0210
21	110.0770	0.5000	5553.9000	1047.8235	0.1275	0.0241

22	110.1020	0.5250	6049.3950	1192.8205	0.1389	0.0274
23	110.1270	0.5500	6544.8900	1350.2085	0.1502	0.0310
24	110.1520	0.5750	7040.3850	1519.9868	0.1616	0.0349
25	110.1770	0.6000	7535.8800	1702.1550	0.1730	0.0391
26	110.2020	0.6250	8330.8500	1900.4061	0.1912	0.0436
27	110.2270	0.6500	9125.8200	2118.5390	0.2095	0.0486
28	110.2520	0.6750	9920.7900	2356.5524	0.2278	0.0541
29	110.2770	0.7000	10715.7600	2614.4455	0.2460	0.0600
30	110.3020	0.7250	11510.7300	2892.2174	0.2642	0.0664
31	110.3270	0.7500	12305.7000	3189.8674	0.2825	0.0732
32	110.3520	0.7750	13100.6700	3507.3952	0.3007	0.0805
33	110.3770	0.8000	13895.6400	3844.8003	0.3190	0.0883
34	110.3895	0.8125	14298.5700	4021.0081	0.3282	0.0923
35	110.4020	0.8250	14701.5000	4202.2527	0.3375	0.0965
36	110.4145	0.8375	15104.4300	4388.5341	0.3468	0.1007
37	110.4270	0.8500	15507.3600	4579.8523	0.3560	0.1051
38	110.4395	0.8625	15910.2900	4776.2072	0.3653	0.1096
39	110.4520	0.8750	16313.2200	4977.5989	0.3745	0.1143
40	110.4645	0.8875	16716.1500	5184.0274	0.3838	0.1190
41	110.4770	0.9000	17119.0800	5395.4925	0.3930	0.1239
42	116.9900	7.4130	17119.0800	116892.0606	0.3930	2.6835

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| Variable storage data for node | B-1
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	110.5040	0.0000	4.3560	0.0000	0.0001	0.0000
2	110.5290	0.0250	150.8265	1.5068	0.0035	0.0000
3	110.5540	0.0500	297.2970	7.0058	0.0068	0.0002
4	110.5790	0.0750	443.7675	16.2082	0.0102	0.0004
5	110.6040	0.1000	590.2380	29.0898	0.0135	0.0007
6	110.6290	0.1250	736.7085	45.6428	0.0169	0.0010
7	110.6540	0.1500	883.1790	65.8638	0.0203	0.0015
8	110.6790	0.1750	1029.6495	89.7507	0.0236	0.0021
9	110.7040	0.2000	1176.1200	117.3026	0.0270	0.0027
10	110.7290	0.2250	1475.5950	150.3783	0.0339	0.0035
11	110.7540	0.2500	1775.0700	190.9540	0.0408	0.0044
12	110.7790	0.2750	2074.5450	239.0256	0.0476	0.0055
13	110.8040	0.3000	2374.0200	294.5906	0.0545	0.0068
14	110.8290	0.3250	2673.4950	357.6475	0.0614	0.0082
15	110.8540	0.3500	2972.9700	428.1952	0.0683	0.0098
16	110.8790	0.3750	3272.4450	506.2330	0.0751	0.0116
17	110.9040	0.4000	3571.9200	591.7602	0.0820	0.0136
18	110.9290	0.4250	4067.4150	687.1849	0.0934	0.0158
19	110.9540	0.4500	4562.9100	795.0046	0.1047	0.0183
20	110.9790	0.4750	5058.4050	915.2179	0.1161	0.0210
21	111.0040	0.5000	5553.9000	1047.8235	0.1275	0.0241
22	111.0290	0.5250	6049.3950	1192.8205	0.1389	0.0274
23	111.0540	0.5500	6544.8900	1350.2085	0.1502	0.0310
24	111.0790	0.5750	7040.3850	1519.9868	0.1616	0.0349
25	111.1040	0.6000	7535.8800	1702.1550	0.1730	0.0391
26	111.1290	0.6250	8330.8500	1900.4061	0.1912	0.0436
27	111.1540	0.6500	9125.8200	2118.5390	0.2095	0.0486
28	111.1790	0.6750	9920.7900	2356.5524	0.2278	0.0541
29	111.2040	0.7000	10715.7600	2614.4455	0.2460	0.0600
30	111.2290	0.7250	11510.7300	2892.2174	0.2642	0.0664
31	111.2540	0.7500	12305.7000	3189.8674	0.2825	0.0732
32	111.2790	0.7750	13100.6700	3507.3952	0.3007	0.0805
33	111.3040	0.8000	13895.6400	3844.8003	0.3190	0.0883
34	111.3165	0.8125	14298.5700	4021.0081	0.3282	0.0923
35	111.3290	0.8250	14701.5000	4202.2527	0.3375	0.0965
36	111.3415	0.8375	15104.4300	4388.5341	0.3468	0.1007
37	111.3540	0.8500	15507.3600	4579.8523	0.3560	0.1051
38	111.3665	0.8625	15910.2900	4776.2072	0.3653	0.1096
39	111.3790	0.8750	16313.2200	4977.5989	0.3745	0.1143
40	111.3915	0.8875	16716.1500	5184.0274	0.3838	0.1190
41	111.4040	0.9000	17119.0800	5395.4925	0.3930	0.1239
42	118.1500	7.6460	17119.0800	120880.8062	0.3930	2.7750

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| Variable storage data for node | E535-02
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	107.0000	0.0000	43.5600	0.0000	0.0010	0.0000
2	107.1250	0.1250	17407.6650	763.4174	0.3996	0.0175
3	107.2500	0.2500	34771.7700	3962.6751	0.7983	0.0910
4	107.3750	0.3750	52135.8750	9357.8959	1.1969	0.2148
5	107.5000	0.5000	69499.9800	16934.1830	1.5955	0.3888
6	107.6250	0.6250	86864.0850	26686.7886	1.9941	0.6126
7	107.7500	0.7500	104228.1900	38613.5859	2.3927	0.8864
8	107.8750	0.8750	121592.2950	52713.4374	2.7914	1.2101
9	108.0000	1.0000	138956.4000	68985.6631	3.1900	1.5837
10	108.1250	1.1250	139827.6000	86409.6347	3.2100	1.9837
11	108.2500	1.2500	140698.8000	103942.5065	3.2300	2.3862
12	108.3750	1.3750	141570.0000	121584.2785	3.2500	2.7912
13	108.5000	1.5000	142441.2000	139334.9507	3.2700	3.1987
14	108.6250	1.6250	143312.4000	157194.5230	3.2900	3.6087
15	108.7500	1.7500	144183.6000	175162.9955	3.3100	4.0212
16	108.8750	1.8750	145054.8000	193240.3682	3.3300	4.4362
17	109.0000	2.0000	145926.0000	211426.6410	3.3500	4.8537
18	109.1250	2.1250	146851.6500	229725.2137	3.3712	5.2738
19	109.2500	2.2500	147777.3000	248139.4927	3.3925	5.6965
20	109.3750	2.3750	148702.9500	266669.4783	3.4138	6.1219
21	109.5000	2.5000	149628.6000	285315.1702	3.4350	6.5499
22	109.6250	2.6250	150554.2500	304076.5686	3.4562	6.9806
23	109.7500	2.7500	151479.9000	322953.6734	3.4775	7.4140
24	109.8750	2.8750	152405.5500	341946.4847	3.4988	7.8500
25	110.0000	3.0000	153331.2000	361055.0024	3.5200	8.2887
26	110.1250	3.1250	154256.8500	380279.2265	3.5412	8.7300
27	110.2500	3.2500	155182.5000	399619.1570	3.5625	9.1740
28	110.3750	3.3750	156108.1500	419074.7940	3.5838	9.6206
29	110.5000	3.5000	157033.8000	438646.1373	3.6050	10.0699
30	110.6250	3.6250	157959.4500	458333.1871	3.6262	10.5219
31	110.7500	3.7500	158885.1000	478135.9433	3.6475	10.9765
32	110.8750	3.8750	159810.7500	498054.4060	3.6687	11.4338
33	111.0000	4.0000	160736.4000	518088.5750	3.6900	11.8937
34	111.1250	4.1250	161662.0500	538238.4504	3.7112	12.3563
35	111.2500	4.2500	162587.7000	558504.0323	3.7325	12.8215
36	111.3750	4.3750	163513.3500	578885.3205	3.7538	13.2894
37	111.5000	4.5000	164439.0000	599382.3152	3.7750	13.7599
38	111.6250	4.6250	165364.6500	619995.0163	3.7962	14.2331
39	111.7500	4.7500	166290.3000	640723.4237	3.8175	14.7090
40	111.8750	4.8750	167215.9500	661567.5376	3.8388	15.1875
41	112.0000	5.0000	168141.6000	682527.3578	3.8600	15.6687
42	112.1250	5.1250	169067.2500	703602.8845	3.8812	16.1525
43	112.2500	5.2500	169992.9000	724794.1175	3.9025	16.6390
44	112.3750	5.3750	170918.5500	746101.0570	3.9238	17.1281
45	112.5000	5.5000	171844.2000	767523.7028	3.9450	17.6199
46	112.6250	5.6250	172769.8500	789062.0551	3.9663	18.1144
47	112.7500	5.7500	173695.5000	810716.1137	3.9875	18.6115
48	112.8750	5.8750	174621.1500	832485.8787	4.0088	19.1112
49	113.0000	6.0000	175546.8000	854371.3501	4.0300	19.6137
50	113.1250	6.1250	176526.9000	876375.9279	4.0525	20.1188
51	113.2500	6.2500	177507.0000	898503.0184	4.0750	20.6268

52	113.3750	6.3750	178487.1000	920752.6215	4.0975	21.1376
53	113.5000	6.5000	179467.2000	943124.7373	4.1200	21.6512
54	113.6250	6.6250	180447.3000	965619.3658	4.1425	22.1676
55	113.7500	6.7500	181427.4000	988236.5069	4.1650	22.6868
56	113.8750	6.8750	182407.5000	1.010976E+06	4.1875	23.2088
57	114.0000	7.0000	183387.6000	1.033838E+06	4.2100	23.7337
58	114.1250	7.1250	184367.7000	1.056823E+06	4.2325	24.2613
59	114.2500	7.2500	185347.8000	1.079930E+06	4.2550	24.7918
60	114.3750	7.3750	186327.9000	1.103160E+06	4.2775	25.3251
61	114.5000	7.5000	187308.0000	1.126512E+06	4.3000	25.8612
62	114.6250	7.6250	188288.1000	1.149987E+06	4.3225	26.4001
63	114.7500	7.7500	189268.2000	1.173584E+06	4.3450	26.9418
64	114.8750	7.8750	190248.3000	1.197304E+06	4.3675	27.4863
65	115.0000	8.0000	191228.4000	1.221146E+06	4.3900	28.0337
66	115.2500	8.2500	191228.4000	1.268953E+06	4.3900	29.1312
67	115.5000	8.5000	191228.4000	1.316760E+06	4.3900	30.2287
68	115.7500	8.7500	191228.4000	1.364567E+06	4.3900	31.3262
69	116.0000	9.0000	191228.4000	1.412375E+06	4.3900	32.4237
70	116.2500	9.2500	191228.4000	1.460182E+06	4.3900	33.5212
71	116.5000	9.5000	191228.4000	1.507989E+06	4.3900	34.6187
72	116.7500	9.7500	191228.4000	1.555796E+06	4.3900	35.7162
73	117.0000	10.0000	191228.4000	1.603603E+06	4.3900	36.8137

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| Variable storage data for node | AN-0
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	108.1500	0.0000	4.3560	0.0000	0.0001	0.0000
2	108.1750	0.0250	150.8265	1.5068	0.0035	0.0000
3	108.2000	0.0500	297.2970	7.0058	0.0068	0.0002
4	108.2250	0.0750	443.7675	16.2082	0.0102	0.0004
5	108.2500	0.1000	590.2380	29.0898	0.0135	0.0007
6	108.2750	0.1250	736.7085	45.6428	0.0169	0.0010
7	108.3000	0.1500	883.1790	65.8638	0.0203	0.0015
8	108.3250	0.1750	1029.6495	89.7507	0.0236	0.0021
9	108.3500	0.2000	1176.1200	117.3026	0.0270	0.0027
10	108.3750	0.2250	1475.5950	150.3783	0.0339	0.0035
11	108.4000	0.2500	1775.0700	190.9540	0.0408	0.0044
12	108.4250	0.2750	2074.5450	239.0256	0.0476	0.0055
13	108.4500	0.3000	2374.0200	294.5906	0.0545	0.0068
14	108.4750	0.3250	2673.4950	357.6475	0.0614	0.0082
15	108.5000	0.3500	2972.9700	428.1952	0.0683	0.0098
16	108.5250	0.3750	3272.4450	506.2330	0.0751	0.0116
17	108.5500	0.4000	3571.9200	591.7602	0.0820	0.0136
18	108.5750	0.4250	4067.4150	687.1849	0.0934	0.0158
19	108.6000	0.4500	4562.9100	795.0046	0.1047	0.0183
20	108.6250	0.4750	5058.4050	915.2179	0.1161	0.0210
21	108.6500	0.5000	5553.9000	1047.8235	0.1275	0.0241
22	108.6750	0.5250	6049.3950	1192.8205	0.1389	0.0274
23	108.7000	0.5500	6544.8900	1350.2085	0.1502	0.0310
24	108.7250	0.5750	7040.3850	1519.9868	0.1616	0.0349
25	108.7500	0.6000	7535.8800	1702.1550	0.1730	0.0391
26	108.7750	0.6250	8330.8500	1900.4061	0.1912	0.0436
27	108.8000	0.6500	9125.8200	2118.5390	0.2095	0.0486
28	108.8250	0.6750	9920.7900	2356.5524	0.2278	0.0541
29	108.8500	0.7000	10715.7600	2614.4455	0.2460	0.0600
30	108.8750	0.7250	11510.7300	2892.2174	0.2642	0.0664
31	108.9000	0.7500	12305.7000	3189.8674	0.2825	0.0732
32	108.9250	0.7750	13100.6700	3507.3952	0.3007	0.0805
33	108.9500	0.8000	13895.6400	3844.8003	0.3190	0.0883
34	108.9625	0.8125	14298.5700	4021.0081	0.3282	0.0923
35	108.9750	0.8250	14701.5000	4202.2527	0.3375	0.0965
36	108.9875	0.8375	15104.4300	4388.5341	0.3468	0.1007
37	109.0000	0.8500	15507.3600	4579.8523	0.3560	0.1051
38	109.0125	0.8625	15910.2900	4776.2072	0.3653	0.1096
39	109.0250	0.8750	16313.2200	4977.5989	0.3745	0.1143
40	109.0375	0.8875	16716.1500	5184.0274	0.3838	0.1190
41	109.0500	0.9000	17119.0800	5395.4925	0.3930	0.1239
42	114.1500	6.0000	17119.0800	92702.8005	0.3930	2.1282

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| Variable storage data for node | AS-0
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	108.4500	0.0000	4.3560	0.0000	0.0001	0.0000
2	108.4750	0.0250	150.8265	1.5068	0.0035	0.0000
3	108.5000	0.0500	297.2970	7.0058	0.0068	0.0002
4	108.5250	0.0750	443.7675	16.2082	0.0102	0.0004
5	108.5500	0.1000	590.2380	29.0898	0.0135	0.0007
6	108.5750	0.1250	736.7085	45.6428	0.0169	0.0010
7	108.6000	0.1500	883.1790	65.8638	0.0203	0.0015
8	108.6250	0.1750	1029.6495	89.7507	0.0236	0.0021
9	108.6500	0.2000	1176.1200	117.3026	0.0270	0.0027
10	108.6750	0.2250	1475.5950	150.3783	0.0339	0.0035
11	108.7000	0.2500	1775.0700	190.9540	0.0408	0.0044
12	108.7250	0.2750	2074.5450	239.0256	0.0476	0.0055
13	108.7500	0.3000	2374.0200	294.5906	0.0545	0.0068
14	108.7750	0.3250	2673.4950	357.6475	0.0614	0.0082
15	108.8000	0.3500	2972.9700	428.1952	0.0683	0.0098
16	108.8250	0.3750	3272.4450	506.2330	0.0751	0.0116
17	108.8500	0.4000	3571.9200	591.7602	0.0820	0.0136
18	108.8750	0.4250	4067.4150	687.1849	0.0934	0.0158
19	108.9000	0.4500	4562.9100	795.0046	0.1047	0.0183
20	108.9250	0.4750	5058.4050	915.2179	0.1161	0.0210
21	108.9500	0.5000	5553.9000	1047.8235	0.1275	0.0241
22	108.9750	0.5250	6049.3950	1192.8205	0.1389	0.0274
23	109.0000	0.5500	6544.8900	1350.2085	0.1502	0.0310
24	109.0250	0.5750	7040.3850	1519.9868	0.1616	0.0349
25	109.0500	0.6000	7535.8800	1702.1550	0.1730	0.0391
26	109.0625	0.6125	7889.8050	1798.5570	0.1811	0.0413
27	109.0750	0.6250	8243.7300	1899.3835	0.1892	0.0436
28	109.0875	0.6375	8597.6550	2004.6344	0.1974	0.0460
29	109.1000	0.6500	8951.5800	2114.3097	0.2055	0.0485
30	109.1125	0.6625	9305.5050	2228.4094	0.2136	0.0512
31	109.1250	0.6750	9659.4300	2346.9333	0.2218	0.0539
32	109.1375	0.6875	10013.3550	2469.8816	0.2299	0.0567
33	109.1500	0.7000	10367.2800	2597.2542	0.2380	0.0596
34	114.4640	6.0140	10367.2800	57688.9801	0.2380	1.3244

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| Variable storage data for node | AS-1
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	109.7070	0.0000	4.3560	0.0000	0.0001	0.0000
2	109.7320	0.0250	150.8265	1.5068	0.0035	0.0000
3	109.7570	0.0500	297.2970	7.0058	0.0068	0.0002
4	109.7820	0.0750	443.7675	16.2082	0.0102	0.0004
5	109.8070	0.1000	590.2380	29.0898	0.0135	0.0007
6	109.8320	0.1250	736.7085	45.6428	0.0169	0.0010
7	109.8570	0.1500	883.1790	65.8638	0.0203	0.0015
8	109.8820	0.1750	1029.6495	89.7507	0.0236	0.0021
9	109.9070	0.2000	1176.1200	117.3026	0.0270	0.0027

10	109.9320	0.2250	1475.5950	150.3783	0.0339	0.0035
11	109.9570	0.2500	1775.0700	190.9540	0.0408	0.0044
12	109.9820	0.2750	2074.5450	239.0256	0.0476	0.0055
13	110.0070	0.3000	2374.0200	294.5906	0.0545	0.0068
14	110.0320	0.3250	2673.4950	357.6475	0.0614	0.0082
15	110.0570	0.3500	2972.9700	428.1952	0.0683	0.0098
16	110.0820	0.3750	3272.4450	506.2330	0.0751	0.0116
17	110.1070	0.4000	3571.9200	591.7602	0.0820	0.0136
18	110.1320	0.4250	4067.4150	687.1849	0.0934	0.0158
19	110.1570	0.4500	4562.9100	795.0046	0.1047	0.0183
20	110.1820	0.4750	5058.4050	915.2179	0.1161	0.0210
21	110.2070	0.5000	5553.9000	1047.8235	0.1275	0.0241
22	110.2320	0.5250	6049.3950	1192.8205	0.1389	0.0274
23	110.2570	0.5500	6544.8900	1350.2085	0.1502	0.0310
24	110.2820	0.5750	7040.3850	1519.9868	0.1616	0.0349
25	110.3070	0.6000	7535.8800	1702.1550	0.1730	0.0391
26	110.3195	0.6125	7889.8050	1798.5570	0.1811	0.0413
27	110.3320	0.6250	8243.7300	1899.3835	0.1892	0.0436
28	110.3445	0.6375	8597.6550	2004.6344	0.1974	0.0460
29	110.3570	0.6500	8951.5800	2114.3097	0.2055	0.0485
30	110.3695	0.6625	9305.5050	2228.4094	0.2136	0.0512
31	110.3820	0.6750	9659.4300	2346.9333	0.2218	0.0539
32	110.3945	0.6875	10013.3550	2469.8816	0.2299	0.0567
33	110.4070	0.7000	10367.2800	2597.2542	0.2380	0.0596
34	115.6760	5.9690	10367.2800	57222.4525	0.2380	1.3136

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| Variable storage data for node | E535-03
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	107.0000	0.0000	43.5600	0.0000	0.0010	0.0000
2	107.1250	0.1250	71476.5150	3053.5246	1.6409	0.0701
3	107.2500	0.2500	142909.4700	16197.4263	3.2807	0.3718
4	107.3750	0.3750	214342.4250	38375.3698	4.9206	0.8810
5	107.5000	0.5000	285775.3800	69525.9044	6.5605	1.5961
6	107.6250	0.6250	357208.3350	109629.4641	8.2004	2.5167
7	107.7500	0.7500	428641.2900	158677.2880	9.8402	3.6427
8	107.8750	0.8750	500074.2450	216664.6915	11.4801	4.9739
9	108.0000	1.0000	571507.2000	283588.8744	13.1200	6.5103
10	108.1250	1.1250	573630.7500	355159.9552	13.1687	8.1534
11	108.2500	1.2500	575754.3000	426996.4800	13.2175	9.8025
12	108.3750	1.3750	577877.8500	499098.4487	13.2662	11.4577
13	108.5000	1.5000	580001.4000	571465.8612	13.3150	13.1191
14	108.6250	1.6250	582124.9500	644098.7177	13.3637	14.7865
15	108.7500	1.7500	584248.5000	716997.0180	13.4125	16.4600
16	108.8750	1.8750	586372.0500	790160.7623	13.4612	18.1396
17	109.0000	2.0000	588495.6000	863589.9504	13.5100	19.8253
18	109.1250	2.1250	590619.1500	937284.5824	13.5587	21.5171
19	109.2500	2.2500	592742.7000	1.011245E+06	13.6075	23.2150
20	109.3750	2.3750	594866.2500	1.085470E+06	13.6562	24.9190
21	109.5000	2.5000	596989.8000	1.159961E+06	13.7050	26.6290
22	109.6250	2.6250	599113.3500	1.234718E+06	13.7537	28.3452
23	109.7500	2.7500	601236.9000	1.309739E+06	13.8025	30.0675
24	109.8750	2.8750	603360.4500	1.385027E+06	13.8513	31.7958
25	110.0000	3.0000	605484.0000	1.460579E+06	13.9000	33.5303
26	110.1250	3.1250	607662.0000	1.536401E+06	13.9500	35.2709
27	110.2500	3.2500	609840.0000	1.612495E+06	14.0000	37.0178
28	110.3750	3.3750	612018.0000	1.688861E+06	14.0500	38.7709
29	110.5000	3.5000	614196.0000	1.765499E+06	14.1000	40.5303
30	110.6250	3.6250	616374.0000	1.842410E+06	14.1500	42.2959
31	110.7500	3.7500	618552.0000	1.919593E+06	14.2000	44.0678
32	110.8750	3.8750	620730.0000	1.997048E+06	14.2500	45.8459
33	111.0000	4.0000	622908.0000	2.074775E+06	14.3000	47.6303
34	111.1250	4.1250	625140.4500	2.152778E+06	14.3513	49.4210
35	111.2500	4.2500	627372.9000	2.231060E+06	14.4025	51.2181
36	111.3750	4.3750	629605.3500	2.309621E+06	14.4538	53.0216
37	111.5000	4.5000	631837.8000	2.388461E+06	14.5050	54.8315
38	111.6250	4.6250	634070.2500	2.467581E+06	14.5562	56.6479
39	111.7500	4.7500	636302.7000	2.546979E+06	14.6075	58.4706
40	111.8750	4.8750	638535.1500	2.626656E+06	14.6587	60.2997
41	112.0000	5.0000	640767.6000	2.706613E+06	14.7100	62.1353
42	112.1250	5.1250	642945.6000	2.786845E+06	14.7600	63.9771
43	112.2500	5.2500	645123.6000	2.867349E+06	14.8100	65.8253
44	112.3750	5.3750	647301.6000	2.948125E+06	14.8600	67.6796
45	112.5000	5.5000	649479.6000	3.029174E+06	14.9100	69.5403
46	112.6250	5.6250	651657.6000	3.110495E+06	14.9600	71.4071
47	112.7500	5.7500	653835.6000	3.192089E+06	15.0100	73.2803
48	112.8750	5.8750	656013.6000	3.273954E+06	15.0600	75.1596
49	113.0000	6.0000	658191.6000	3.356092E+06	15.1100	77.0453
50	113.1250	6.1250	660478.5000	3.439509E+06	15.1625	78.9373
51	113.2500	6.2500	662765.4000	3.521211E+06	15.2150	80.8359
52	113.3750	6.3750	665052.3000	3.604200E+06	15.2675	82.7410
53	113.5000	6.5000	667339.2000	3.687474E+06	15.3200	84.6528
54	113.6250	6.6250	669626.1000	3.771035E+06	15.3725	86.5710
55	113.7500	6.7500	671913.0000	3.854881E+06	15.4250	88.4959
56	113.8750	6.8750	674199.9000	3.939013E+06	15.4775	90.4273
57	114.0000	7.0000	676486.8000	4.023431E+06	15.5300	92.3653
58	114.1250	7.1250	678719.2500	4.108131E+06	15.5812	94.3097
59	114.2500	7.2500	680951.7000	4.193110E+06	15.6325	96.2606
60	114.3750	7.3750	683184.1500	4.278369E+06	15.6837	98.2178
61	114.5000	7.5000	685416.6000	4.363906E+06	15.7350	100.1815
62	114.6250	7.6250	687649.0500	4.449723E+06	15.7862	102.1516
63	114.7500	7.7500	689881.5000	4.535819E+06	15.8375	104.1281
64	114.8750	7.8750	692113.9500	4.622193E+06	15.8887	106.1110
65	115.0000	8.0000	694346.4000	4.708847E+06	15.9400	108.1003
66	115.2500	8.2500	694346.4000	4.882434E+06	15.9400	112.0853
67	115.5000	8.5000	694346.4000	5.056020E+06	15.9400	116.0703
68	115.7500	8.7500	694346.4000	5.229607E+06	15.9400	120.0553
69	116.0000	9.0000	694346.4000	5.403193E+06	15.9400	124.0403
70	116.2500	9.2500	694346.4000	5.576780E+06	15.9400	128.0253
71	116.5000	9.5000	694346.4000	5.750367E+06	15.9400	132.0103
72	116.7500	9.7500	694346.4000	5.923953E+06	15.9400	135.9953
73	117.0000	10.0000	694346.4000	6.097540E+06	15.9400	139.9803

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| Weir Data |
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Weir Name	From Junction	To Junction	Type	Crest Height(ft)	Weir Top(ft)	Weir Length(ft)	Discharge Coefficient	Weir Power
E535-02 WEIR	E535-02	E135-07	3	5.00	10.00	30.00	2.6000	1.6667
E535-03 WEIR	E535-03	E135-06	3	3.00	10.00	50.00	2.6000	1.6667

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| FREE OUTFALL DATA (DATA GROUP I1) |
| BOUNDARY CONDITION ON DATA GROUP J1 |
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Outfall at Junction....E135-01   has boundary condition number...   1

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| Weir Outfall Data |

Boundary Condition on data group J1

INTERNAL CONNECTIVITY INFORMATION

CONDUIT	JUNCTION	JUNCTION
E535-02 WEIR	E535-02	E135-07
E535-03 WEIR	E535-03	E135-06
FREE # 1	E135-01	BOUNDARY

Boundary Condition Information
Data Groups J1-J4

Outlet: E135-01
Downstream Rating Curve Information
for Boundary Condition = 1.

No.	Flow(cfs)	Depth(ft)	No.	Flow(cfs)	Depth(ft)	No.	Flow(cfs)	Depth(ft)
1	0.00	0.000	2	620.00	7.890	3	1070.00	10.330
4	1300.00	10.990	5	1820.00	11.400			

XP Note Field Summary

Table E9 - JUNCTION SUMMARY STATISTICS
The Maximum area is only the area of the node, it does not include the area of the surrounding conduits

Junction Name	Ground Elevation feet	Uppermost PipeCrown Elevation feet	Maximum Junction Elevation feet	Time of Occurence Hr. Min.	Feet of Surcharge at Max Elevation	Freeboard of node feet	Maximum Junction Area ft^2	Maximum Gutter Depth feet	Maximum Gutter Width feet	Maximum Gutter Velocity ft/s
MH-B2	117.6100	117.6100	113.9161	19 12	0.0000	3.6939	12.5660	0.0000	0.0000	0.0000
B-28	114.9400	110.4700	113.9162	19 13	3.4462	1.0238	12.5660	0.0000	0.0000	0.0000
B-30	114.8700	109.9680	113.9161	19 12	3.9481	0.9539	12.5660	0.0000	0.0000	0.0000
MH-B3	117.1900	116.3560	115.4306	19 13	0.0000	1.7594	12.5660	0.0000	0.0000	0.0000
B-27	115.4900	110.9050	114.1439	16 16	3.2389	1.3461	12.5660	0.0000	0.0000	0.0000
B-32	116.2200	110.6780	114.2721	16 19	3.5941	1.9479	12.5660	0.0000	0.0000	0.0000
B-33	116.9700	113.9600	115.8036	18 47	1.8436	1.1664	12.5660	0.0000	0.0000	0.0000
B-34	117.2700	113.5980	115.4821	19 7	1.8841	1.7879	12.5660	0.0000	0.0000	0.0000
B-26	116.1200	111.4000	115.1698	16 15	3.7698	0.9502	12.5660	0.0000	0.0000	0.0000
B-24	116.3500	111.8500	115.9164	16 15	4.0664	0.4336	12.5660	0.0000	0.0000	0.0000
B-22	116.5700	112.3000	116.6139	16 16	4.3139	0.0000	261.6542	0.0000	0.0000	0.0000
B-20	117.7800	117.7800	117.0691	16 17	0.0000	0.7109	2243.7414	0.0000	0.0000	0.0000
B-18	118.2300	118.2300	117.6650	16 17	0.0000	0.5650	4265.5180	0.0000	0.0000	0.0000
B-16	118.5300	118.5300	118.0671	16 27	0.0000	0.4629	6289.9838	0.0000	0.0000	0.0000
B-14	118.0800	114.1750	118.4599	16 30	4.2849	0.0000	3330.7152	0.0000	0.0000	0.0000
B-12	118.8700	118.8700	118.7357	16 31	0.0000	0.1343	10367.280	0.0000	0.0000	0.0000
B-10	119.5700	119.5700	119.1244	16 31	0.0000	0.4456	6632.1736	0.0000	0.0000	0.0000
B-8	120.1200	120.1200	119.5633	16 15	0.0000	0.5567	4430.2565	0.0000	0.0000	0.0000
B-6	120.4000	120.4000	119.9030	16 11	0.0000	0.4970	5613.3452	0.0000	0.0000	0.0000
B-4	121.7700	121.7700	120.3114	16 15	0.0000	1.4586	12.5660	0.0000	0.0000	0.0000
B-2	122.6700	122.6700	120.8676	16 17	0.0000	1.8024	12.5660	0.0000	0.0000	0.0000
MH-B1	118.8300	116.6900	113.8166	19 12	0.0000	5.0134	12.5660	0.0000	0.0000	0.0000
B-25	113.2700	110.2770	113.8165	19 12	3.5395	0.0000	6475.9769	0.0000	0.0000	0.0000
B-29	113.4300	109.8460	113.8169	19 11	3.9709	0.0000	3415.0584	0.0000	0.0000	0.0000
B-23	112.9000	110.5760	113.8164	19 14	3.2404	0.0000	17119.080	0.0000	0.0000	0.0000
B-31	113.7000	110.4000	113.8168	19 11	3.4168	0.0000	688.6830	0.0000	0.0000	0.0000
B-21	114.0500	114.0500	113.8164	19 10	0.0000	0.2336	12.5660	0.0000	0.0000	0.0000
B-19	115.0900	115.0900	113.8164	19 10	0.0000	1.2736	12.5660	0.0000	0.0000	0.0000
B-17	115.2600	110.6760	113.8164	19 11	3.1404	1.4436	12.5660	0.0000	0.0000	0.0000
B-15	115.2600	110.8760	114.1346	15 53	3.2586	1.1254	12.5660	0.0000	0.0000	0.0000
B-13	116.4000	116.4000	114.9248	15 53	0.0000	1.4752	12.5660	0.0000	0.0000	0.0000
B-11	117.0000	117.0000	115.0816	15 53	0.0000	1.9184	12.5660	0.0000	0.0000	0.0000
B-9	116.4000	111.9970	115.8025	15 53	3.8055	0.5975	12.5660	0.0000	0.0000	0.0000
B-7	116.3800	112.3770	116.3277	15 53	3.9507	0.0523	12.5660	0.0000	0.0000	0.0000
B-5	116.6200	112.7770	116.6322	15 53	3.8552	0.0000	76.1296	0.0000	0.0000	0.0000
B-3	116.9900	113.0770	116.9832	15 53	3.9062	0.0068	12.5660	0.0000	0.0000	0.0000
B-1	118.1500	113.5040	117.6209	15 53	4.1169	0.5291	12.5660	0.0000	0.0000	0.0000
A-1A	125.0000	121.6600	119.4859	16 30	0.0000	5.5141	12.5660	0.0000	0.0000	0.0000
A-2A	125.0000	121.3000	119.4473	16 30	0.0000	5.5527	12.5660	0.0000	0.0000	0.0000
A-5A	125.0000	119.9000	119.4396	16 29	0.0000	5.5604	12.5660	0.0000	0.0000	0.0000
A-8A	125.0000	119.7000	119.1275	16 29	0.0000	5.8725	12.5660	0.0000	0.0000	0.0000
B-10A	125.0000	118.7000	118.7345	16 31	0.0345	6.2655	12.5660	0.0000	0.0000	0.0000
B-11A	125.0000	118.6200	118.0532	16 30	0.0000	6.9468	12.5660	0.0000	0.0000	0.0000
B-13A	125.0000	117.7000	117.6057	16 33	0.0000	7.3943	12.5660	0.0000	0.0000	0.0000
B-14A	125.0000	117.3400	117.3220	16 35	0.0000	7.6780	12.5660	0.0000	0.0000	0.0000
B-16A	125.0000	116.9300	116.7995	16 38	0.0000	8.2005	12.5660	0.0000	0.0000	0.0000
B-18A	125.0000	116.1200	115.0382	16 40	0.0000	9.9618	12.5660	0.0000	0.0000	0.0000
E135-04	119.0000	117.6900	113.9255	19 12	0.0000	5.0745	12.5660	0.0000	0.0000	0.0000
D-2A	125.0000	116.0500	113.9255	19 13	0.0000	11.0745	12.5660	0.0000	0.0000	0.0000
D-3A	125.0000	116.2200	113.9263	19 12	0.0000	11.0737	12.5660	0.0000	0.0000	0.0000
D-4A	125.0000	116.7000	114.0192	16 2	0.0000	10.9808	12.5660	0.0000	0.0000	0.0000
E135-03	116.7000	116.6700	113.8301	19 12	0.0000	2.8699	12.5660	0.0000	0.0000	0.0000
E135-05	119.0000	117.9800	113.9638	19 12	0.0000	5.0362	12.5660	0.0000	0.0000	0.0000
E135-01	118.8300	116.2800	113.7990	19 12	0.0000	5.0310	12.5660	0.0000	0.0000	0.0000
A-1AA	125.0000	122.5000	119.5000	0 0	0.0000	5.5000	12.5660	0.0000	0.0000	0.0000
E135-08	117.0000	116.9200	115.5523	19 12	0.0000	1.4477	12.5660	0.0000	0.0000	0.0000
E135-06	117.0000	116.5025	115.4575	19 14	0.0000	1.5425	12.5660	0.0000	0.0000	0.0000
E135-07	117.0000	116.8358	115.5309	19 13	0.0000	1.4691	12.5660	0.0000	0.0000	0.0000
E535-02	117.0000	109.0000	115.5311	19 15	6.5311	1.4689	191228.40	0.0000	0.0000	0.0000
AN-0	114.1500	111.1500	113.8165	19 11	2.6665	0.3335	12.5660	0.0000	0.0000	0.0000
AS-0	114.4640	111.4500	115.2676	16 20	3.8176	0.0000	10367.280	0.0000	0.0000	0.0000
AS-1	115.6760	112.2070	115.5832	16 16	3.3762	0.0928	12.5660	0.0000	0.0000	0.0000
ML-01	117.2700	114.0420	115.7987	17 53	1.7567	1.4713	12.5660	0.0000	0.0000	0.0000
E535-03	117.0000	109.0000	115.4580	19 18	6.4580	1.5420	694346.40	0.0000	0.0000	0.0000

Table E10 - CONDUIT SUMMARY STATISTICS
Note: The peak flow may be less than the design flow and the conduit may still surcharge because of the downstream boundary conditions.

* denotes an open conduit that has been overtopped
this is a potential source of severe errors

Conduit	Design Flow	Conduit Design Velocity	Maximum Vertical Depth	Maximum Computed Flow	Time of Occurence	Maximum Computed Velocity	Time of Occurence	Ratio of Max. to Design	Maximum Water Elev at Pipe Ends Upstream	Dwnstrm	Ratio d/D US	DS

Name	(cfs)	(ft/s)	(in)	(cfs)	Hr.	Min.	(ft/s)	Hr.	Min.	Flow	(ft)	(ft)		
L_B-28	63.6197	4.2413	36.0000	112.8565	16	15	7.4952	16	15	1.7739	113.9162	113.9161	2.149	2.247
L_B-30	38.9923	4.0528	42.0000	55.7722	16	15	5.7696	16	15	1.4303	113.9161	113.9161	2.128	2.210
L_B-27	63.6102	4.2407	36.0000	101.9629	16	15	6.7645	16	15	1.6029	114.1439	113.9162	2.080	2.149
L_B-32	25.8235	3.6533	36.0000	38.5505	16	12	5.4176	16	12	1.4928	114.2721	113.9161	2.198	2.316
L_B-33	104.8616	4.1945	60.0000	186.3746	17	15	10.0518	0	0	1.7773	115.8035	115.4306	1.369	1.356
L_B-34	77.6102	3.8805	48.0000	132.5323	16	31	8.1063	16	15	1.7077	115.4821	115.4306	1.471	1.508
L_B-26	63.6102	4.2407	36.0000	92.0413	16	15	6.1002	16	15	1.4470	115.1698	114.1439	2.257	2.080
L_B-24	63.6102	4.2407	36.0000	82.5832	16	30	5.4706	16	30	1.2983	115.9164	115.1697	2.355	2.257
L_B-22	47.9370	3.9948	36.0000	65.1946	15	58	7.2096	0	0	1.3600	116.6139	115.9162	2.438	2.355
L_B-20	47.9370	3.9948	36.0000	62.2046	15	58	5.1511	15	58	1.2976	117.0691	116.6139	2.480	2.438
L_B-18	47.9370	3.9948	36.0000	61.3804	15	56	5.0831	15	56	1.2804	117.6650	117.0691	2.513	2.480
L_B-16	47.9362	3.9947	36.0000	56.5812	15	55	4.6860	15	55	1.1803	118.0671	117.6650	2.497	2.513
L_B-14	47.9450	3.9954	36.0000	46.1623	16	59	3.9035	15	45	0.9628	118.4599	118.0671	2.428	2.497
L_B-12	47.9229	3.9936	36.0000	44.0505	15	46	4.2150	15	45	0.9192	118.7357	118.4599	2.345	2.428
L_B-10	47.9262	3.9939	36.0000	50.5942	16	6	4.3275	15	46	1.0557	119.1244	118.7357	2.275	2.345
L_B-8	32.8954	3.6550	36.0000	32.9322	15	47	6.3992	0	0	1.0011	119.5633	119.1244	2.246	2.275
L_B-6	25.8328	3.6546	36.0000	27.1239	15	48	6.5274	0	0	1.0500	119.9030	119.5633	2.184	2.246
L_B-25	192.7665	4.8192	60.0000	173.3601	16	15	7.4497	0	0	0.8993	113.8165	113.8166	1.708	1.763
L_B-29	57.8294	3.6143	48.0000	63.0795	16	15	6.4137	0	0	1.0908	113.8169	113.8166	1.993	2.060
L_B-23	192.5854	4.8146	60.0000	159.5601	16	15	4.6836	0	1	0.8285	113.8164	113.8165	1.648	1.708
L_B-31	45.4316	3.6153	48.0000	40.2784	16	15	3.1927	16	15	0.8866	113.8168	113.8169	1.854	1.993
L_B-21	192.6717	4.8168	60.0000	141.9489	16	15	3.9480	0	0	0.7367	113.8164	113.8164	1.528	1.648
L_B-17	97.8844	4.0785	48.0000	113.0979	16	15	7.3484	0	0	1.1554	113.8164	113.8164	1.785	1.873
L_B-15	77.5543	3.8777	48.0000	109.6514	16	15	8.1309	0	0	1.4139	114.1346	113.8164	1.815	1.785
L_B-13	77.6218	3.8811	48.0000	96.1051	16	15	4.7865	16	15	1.2381	114.9249	114.1351	1.887	1.815
L_B-9	57.8668	3.6167	48.0000	73.0896	16	15	4.5488	16	15	1.2631	115.8024	115.0819	1.951	1.876
L_B-7	57.8356	3.6147	48.0000	69.7094	16	15	4.3373	16	15	1.2053	116.3279	115.8025	1.988	1.951
L_B-5	45.4240	3.6147	48.0000	46.7668	16	15	6.9877	0	0	1.0296	116.6323	116.3277	1.964	1.988
L_B-3	31.8171	3.3070	42.0000	33.1989	16	15	6.4280	0	0	1.0434	116.9833	116.6322	2.116	2.101
L_B-1	21.0866	2.9831	36.0000	19.0338	16	0	5.7867	0	0	0.9026	117.6209	116.9832	2.372	2.302
L-A-2A	99.5063	3.0153	36.0000	3.2663	16	44	1.1895	16	1	0.0328	119.4859	119.4473	0.275	0.382
L-A-5A	92.2984	2.7969	36.0000	5.5246	16	43	0.8315	14	53	0.0599	119.4473	119.4396	0.382	0.847
L-A-8A	30.3548	0.9198	36.0000	24.0436	16	22	1.2720	16	7	0.7921	119.4396	119.1275	0.847	0.809
L-B-10A	58.4522	1.7713	36.0000	28.8466	16	28	1.0601	16	23	0.4935	119.1275	118.7345	0.809	1.012 *
L-B-11A	17.7548	0.5380	36.0000	41.3490	16	32	1.4760	16	42	2.3289	118.7345	118.0532	1.012	0.811 *
L-B-13A	91.6874	2.7784	36.0000	49.9133	16	24	2.0757	16	12	0.5444	118.0532	117.6057	0.811	0.969
L-B-14A	57.3545	1.7380	36.0000	48.8749	16	32	1.6465	16	17	0.8522	117.6057	117.3220	0.969	0.994
L-B-16A	46.5682	1.4112	36.0000	49.6052	16	30	1.6200	16	21	1.0652	117.3220	116.7995	0.994	0.956
L-B-18A	58.4097	1.7700	36.0000	52.4950	16	38	2.2413	16	37	0.8987	116.7995	115.0382	0.956	0.639
L-D-3A	95.4192	2.8915	36.0000	0.7684	16	2	0.6445	16	0	0.0081	114.0192	113.9263	0.106	0.235
L-D-2A	48.3514	1.4652	36.0000	0.7635	16	9	0.5233	16	4	0.0158	113.9263	113.9255	0.235	0.292
L-E13504.1	276.8896	8.3906	36.0000	3.9751	16	17	0.9546	15	19	0.0144	113.9255	113.9255	0.292	1.778 *
L-E13504	162.4161	4.9217	36.0000	55.9989	16	40	2.4314	16	40	0.3448	115.0382	113.9255	0.639	1.675 *
E135.4	15303.84	3.8003	146.2800	1006.700	19	16	3.5344	15	21	0.0658	113.9638	113.9255	0.671	0.691
E135.3	4755.812	7.7033	129.9600	1018.157	19	14	3.5936	15	18	0.2141	113.9161	113.8301	0.784	0.863
E135.2	18251.22	4.5322	146.2800	1018.224	19	14	3.6457	14	54	0.0558	113.8301	113.8166	0.767	0.794
E135.1	13825.39	3.8719	150.6000	1021.868	19	12	4.1376	30	6	0.0739	113.8166	113.7990	0.771	0.802
L-A-1A	62.5767	1.8963	36.0000	0.0000	0	0	0.0000	0	0	0.0000	119.5000	119.4859	.0000	.0000
E135.8	2820.240	4.1376	121.4400	1020.973	17	15	3.8175	16	56	0.3620	115.5523	115.5309	0.865	0.871
E135.4A	15461.35	3.8394	146.2800	1014.869	19	14	-4.1373	0	0	0.0656	113.9255	113.9161	0.691	0.697
E135.5	471.9844	7.3748	96.0000	503.3256	19	16	7.8609	19	16	1.0664	115.4306	113.9638	1.149	1.022
E135.7	2819.682	4.1368	121.4400	913.8489	17	53	3.3400	16	54	0.3241	115.5309	115.4575	0.871	0.897
E135.6	2820.163	4.1375	121.4400	883.0221	19	56	-4.4517	0	0	0.3131	115.4575	115.4306	0.897	0.909
L_AN-0	21.0944	2.9842	36.0000	21.9146	16	15	3.0843	16	15	1.0389	113.8165	113.8168	1.889	2.139
L_AS-1	15.8806	3.2352	30.0000	11.2349	16	15	2.2683	16	15	0.7075	115.5832	115.2676	2.350	2.527
L_AS-0	25.8238	3.6533	36.0000	29.6663	16	23	4.1643	16	23	1.1488	115.2676	114.2721	2.273	2.198
Link985	57.8215	3.6138	48.0000	109.2721	17	1	6.8258	16	59	1.8898	115.7986	115.4821	1.439	1.471
L_B-20-OF	295.4330	11.7003	6.0000	-2.2817	16	35	-0.1830	16	35	-0.0077	117.3201	117.3220	0.080	5.964 *
L_B-18-OF	299.9208	11.8781	6.0000	0.0000	0	0	0.0000	0	0	0.0000	117.6650	117.6057	.0000	.0000
L_B-16-OF	267.4815	10.5933	6.0000	16.3180	16	7	1.4356	16	7	0.0610	118.0671	118.0532	0.074	4.866 *
L_B-12-OF	281.5405	11.1501	6.0000	35.2439	15	59	3.0997	15	59	0.1252	118.7357	118.7345	0.731	6.069 *
L_B-8-OF	294.4264	11.6605	6.0000	0.0000	0	0	0.0000	0	0	0.0000	119.5633	119.1275	.0000	.0000
L_B-10-OF	265.2525	10.5050	6.0000	16.6505	16	7	1.4653	16	7	0.0628	119.1244	119.1275	0.109	4.855 *
L_B-6-OF	298.4324	11.8191	6.0000	34.9659	16	11	3.0769	16	11	0.1172	119.9030	119.4396	.0060	5.079 *
L_B-4-OF	360.1853	14.2648	6.0000	0.0000	0	0	0.0000	0	0	0.0000	120.3114	119.4396	.0000	.0000
L_B-2-OF	322.8040	12.7843	6.0000	0.0000	0	0	0.0000	0	0	0.0000	120.8676	119.4859	.0000	.0000
B-4 RCP	25.8322	3.6545	36.0000	27.2149	16	15	3.8212	16	15	1.0535	120.3114	119.9030	2.195	2.184
B-4 OL	68.7485	3.6183	6.0000	1.0980	16	15	0.1168	16	15	0.0160	120.3114	119.9030	0.083	1.006 *
B-2 RCP	15.8859	3.2362	30.0000	16.1168	15	50	4.9114	0	0	1.0145	120.8676	120.3114	2.417	2.435
B-2 OL	68.9458	3.6287	6.0000	0.0000	0	0	0.0000	0	0	0.0000	120.8676	120.3114	.0000	.0000
B-19 RCB	98.0887	4.0870	48.0000	115.4325	16	15	7.8537	0	0	1.1768	113.8164	113.8164	1.873	1.910
B-19 OL	97.1605	5.1137	6.0000	0.0000	0	0	0.0000	0	0	0.0000	113.8164	113.8164	.0000	.0000
B-11 RCB	77.4338	3.8717	48.0000	77.0890	16	15	3.8389	16	15	0.9955	115.0822	114.9248	1.877	1.887
B-11 OL	63.8915	3.3627	6.0000	0.0000	0	0	0.0000	0	0	0.0000	114.9248	114.9248	.0000	.0000
02-RCP	6.4367	2.0489	24.0000	-16.9844	16	5	-5.3671	16	5	-2.6387	115.5311	115.5309	4.266	4.408
03-RCP	7.9966	2.5454	24.0000	-17.1870	16	4	-5.5267	16	1	-2.1493	115.4580	115.4575	4.229	4.537
E535-02 WEIR	Undefnd	Undefnd	Undefn	-216.657	17	24								
E535-03 WEIR	Undefnd	Undefnd	Undefn	-691.782	16	51								
FREE # 1	Undefnd	Undefnd	Undefn	1021.868	19	12								

Table E14 - Natural Channel Overbank Flow Information

Conduit Name	Maximum Velocity: Left Velocity	Maximum Velocity: Center Velocity	Maximum Velocity: Right Velocity	Maximum Flow: Left Flow	Maximum Flow: Center Flow	Maximum Flow: Right Flow	Maximum Area: Left Area	Maximum Area: Center Area	Maximum Area: Right Area	Max. Storage Volume: Left Area	Max. Storage Volume: Center Area	Max. Storage Volume: Right Area	Maximum Depth
E135.4	0.0000	2.6174	0.0000	0.0000	1006.6998	0.0000	0.0000	384.6251	0.0000	0.0000	28462.256	0.0000	8.2898
E135.3	0.0000	2.3400	0.0000	0.0000	1018.1571	0.0000	0.0000	435.1055	0.0000	0.0000	102249.80	0.0000	8.8881
E135.2	0.1632	2.0682	0.0000	6.4056	1011.8184	0.0000	39.2577	489.2262	0.0000	2394.7178	29842.800	0.0000	9.4970
E135.1	0.0000	1.9548	0.0000	0.0000	1021.8684	0.0000	0.0000	522.7425	0.0000	0.0000	45792.241	0.0000	9.8537
E135.8	0.8038	2.2885	0.5633	29.7086	979.8551	11.4095	36.9611	428.1666	20.2535	1848.0531	21408.328	1012.6761	8.7806
E135.4A	0.0000	2.5468	0.0000	0.0000	1014.8693	0.0000	0.0000	398.4851	0.0000	0.0000	7969.7016	0.0000	8.4573
E135.7	0.7372	1.9745	0.5457	31.0070	869.1780	13.6640	42.0627	440.1935	25.0389	8328.4191	87158.308	4957.7071	8.9326
E135.6	0.7265	1.8212	0.5653	35.3897	829.9472	17.6852	48.7141	455.7127	31.2822	2094.7061	39647.004	3941.5580	9.1288

Table E14a - Natural Channel Encroachment Information

Conduit Name	Existing Conveyance Condition: Left Bank	Centre Channel	Right Bank	Total	Left Station	Right Station	Encroachment Conveyance Condition: Left Bank	Centre Channel	Right Bank	Total	Left Station	Right Station	% Volume Reduction: Left	Right	Encroachment Data: Depth Incr.	Method
E135.4	0.0000	39294.0	0.0000	39294.0	4949.2	5031.4	0.0000	39294.0	0.0000	39294.0	4949.2	5031.4	0.0000	0.0000	0.0000	None
E135.3	0.0000	46571.2	0.0000	46571.2	4947.0	5033.6	0.0000	46571.2	0.0000	46571.2	4947.0	5033.6	0.0000	0.0000	0.0000	None
E135.2	346.33	54706.2	0.0000	55052.5	4944.7	5035.9	346.33	54706.2	0.0000	55052.5	4944.7	5035.9	0.0000	0.0000	0.0000	None
E135.1	0.0000	59900.3	0.0000	59900.3	4943.3	5037.2	0.0000	59900.3	0.0000	59900.3	4943.3	5037.2	0.0000	0.0000	0.0000	None
E135.8	1460.2	48160.6	560.79	50181.6	4925.6	5069.4	1460.2	48160.6	560.79	50181.6	4925.6	5069.4	0.0000	0.0000	0.0000	None

E135.4A	0.0000	41260.7	0.0000	41260.7	4948.6	5032.0	0.0000	41260.7	0.0000	41260.7	4948.6	5032.0	0.0000	0.0000	0.0000	None
E135.7	1799.3	50436.3	792.89	53028.4	4925.3	5069.7	1799.3	50436.3	792.89	53028.4	4925.3	5069.7	0.0000	0.0000	0.0000	None
E135.6	2278.5	53434.6	1138.6	56851.7	4924.9	5070.1	2278.5	53434.6	1138.6	56851.7	4924.9	5070.1	0.0000	0.0000	0.0000	None

Table E14b - Floodplain Mapping

Conduit Name	Upstream WS Elev.	Downstream WS Elev.	Channel Length	Center Station	<----- Left Offsets Natural	Encroach	Bank	<----- Right Offsets Natural	Encroach	Bank	<- Channel Widths-> Total	Encroach.
E135.4	113.9638	113.9255	74.0000	5001.5000	52.2666	52.2666	66.9000	29.8660	29.8660	410.7000	82.1326	82.1326
E135.3	113.9161	113.8301	235.0000	5001.5000	54.5115	54.5115	66.9000	32.0932	32.0932	410.7000	86.6047	86.6047
E135.2	113.8301	113.8166	61.0000	5001.5000	56.7961	56.7961	66.9000	34.3598	34.3598	410.7000	91.1559	91.1559
E135.1	113.8166	113.7990	87.6000	5001.5000	58.1776	58.1776	66.9000	35.6972	35.6972	43.9000	93.8748	93.8748
E135.8	115.5523	115.5309	50.0000	5005.2500	79.6811	79.6811	46.2800	64.1411	64.1411	32.8200	143.8223	143.8223
E135.4A	113.9255	113.9161	20.0000	5001.5000	52.8949	52.8949	66.9000	30.4894	30.4894	410.7000	83.3843	83.3843
E135.7	115.5309	115.4575	198.0000	5005.2500	79.9852	79.9852	46.2800	64.4452	64.4452	32.8200	144.4305	144.4305
E135.6	115.4575	115.4306	87.0000	5005.2500	80.3776	80.3776	46.2800	64.8376	64.8376	32.8200	145.2153	145.2153

Table E15 - SPREADSHEET INFO LIST

Conduit Flow and Junction Depth Information for use in spreadsheets. The maximum values in this table are the true maximum values because they sample every time step. The values in the review results may only be the maximum of a subset of all the time steps in the run. Note: These flows are only the flows in a single barrel.

Conduit Name	Maximum Flow (cfs)	Total Flow (ft^3)	Maximum Velocity (ft/s)	Maximum Volume (ft^3)	##	Junction Name	Invert Elevation (ft)	Maximum Elevation (ft)
L_B-28	112.8565	729899.2125	7.4952	2957.4361	##	MH-B2	105.4200	113.9161
L_B-30	55.7722	279624.1763	5.7696	1920.4801	##	B-28	107.4700	113.9162
L_B-27	101.9629	676418.8949	6.7645	4374.9848	##	B-30	106.4680	113.9161
L_B-32	38.5505	199132.5647	5.4176	3491.6357	##	MH-B3	106.2360	115.4306
L_B-33	186.3746	4709237.713	10.0518	7796.9131	##	B-27	107.9050	114.1439
L_B-34	132.5323	1733721.363	8.1063	3978.1472	##	B-32	107.6780	114.2721
L_B-26	92.0413	627463.3683	6.1002	4976.7213	##	B-33	108.9600	115.8036
L_B-24	82.5832	579845.0409	5.4706	4528.2729	##	B-34	109.5980	115.4821
L_B-22	65.1946	478499.7479	7.2096	3624.3974	##	B-26	108.4000	115.1698
L_B-20	62.2046	458998.2056	5.1511	2663.1539	##	B-24	108.8500	115.9164
L_B-18	61.3804	437450.5435	5.0831	3989.2982	##	B-22	109.3000	116.6139
L_B-16	56.5812	390250.4006	4.6860	3627.3609	##	B-20	109.6300	117.0691
L_B-14	46.1623	311787.0505	3.9035	4834.3292	##	B-18	110.1250	117.6650
L_B-12	44.0505	284139.7750	4.2150	4232.4837	##	B-16	110.5750	118.0671
L_B-10	50.5942	301413.5278	4.3275	4834.4603	##	B-14	111.1750	118.4599
L_B-8	32.9322	218904.4565	6.3992	3169.1362	##	B-12	111.7000	118.7357
L_B-6	27.1239	164999.7818	6.5274	2590.9362	##	B-10	112.3000	119.1244
L_B-25	173.3601	856237.4570	7.4497	11113.4950	##	B-8	112.8250	119.5633
L_B-29	63.0795	301684.2814	6.4137	4343.8324	##	B-6	113.3500	119.9030
L_B-23	159.5601	789252.5269	4.6836	12015.4189	##	B-4	113.7250	120.3114
L_B-31	40.2784	192604.1299	3.1927	7295.7386	##	B-2	114.8250	120.8676
L_B-21	141.9489	701878.8048	3.9480	24082.4256	##	MH-B1	104.1400	113.8166
L_B-17	113.0979	560608.1188	7.3484	8450.6781	##	B-25	105.2770	113.8165
L_B-15	109.6514	537939.6221	8.1309	4015.7825	##	B-29	105.8460	113.8169
L_B-13	96.1051	469404.7255	4.7865	10043.5553	##	B-23	105.5760	113.8164
L_B-9	73.0896	355775.9159	4.5488	6758.2438	##	B-31	106.4000	113.8168
L_B-7	69.7094	333205.2734	4.3373	6108.9218	##	B-21	106.1760	113.8164
L_B-5	46.7668	223677.8325	6.9877	5269.4505	##	B-19	106.3260	113.8164
L_B-3	33.1989	156593.7869	6.4280	3025.5248	##	B-17	106.6760	113.8164
L_B-1	19.0338	88253.1660	5.7867	3165.7187	##	B-15	106.8760	114.1346
L-A-2A	3.2663	31974.1759	1.1895	491.4836	##	B-13	107.3770	114.9248
L-A-5A	5.5246	32088.2399	0.8315	6479.4324	##	B-11	107.5760	115.0816
L-A-8A	24.0436	116322.5745	1.2720	14014.1194	##	B-9	107.9970	115.8025
L-B-10A	28.8466	129909.0833	1.0601	22364.3879	##	B-7	108.3770	116.3277
L-B-11A	41.3490	240699.6107	1.4760	19300.4681	##	B-5	108.7770	116.6322
L-B-13A	49.9133	282330.9950	2.0757	8053.2716	##	B-3	109.5770	116.9832
L-B-14A	48.8749	282720.8770	1.6465	9596.6737	##	B-1	110.5040	117.6209
L-B-16A	49.6052	317381.4071	1.6200	16391.2141	##	A-1A	118.6600	119.4859
L-B-18A	52.4950	356177.2241	2.2413	14489.1250	##	A-2A	118.3000	119.4473
L-D-3A	0.7684	8910.5581	0.6445	235.1461	##	A-5A	116.9000	119.4396
L-D-2A	0.7635	8914.8330	0.5233	692.7960	##	A-8A	116.7000	119.1275

L-E13504.1	3.9751	45351.6431	0.9546	3999.8623	##	B-10A	115.7000	118.7345
L-E13504	55.9989	401739.8585	2.4314	10641.3238	##	B-11A	115.6200	118.0532
E135.4	1006.6998	38817255.09	3.5344	28462.2560	##	B-13A	114.7000	117.6057
E135.3	1018.1571	40273848.00	3.5936	102249.7961	##	B-14A	114.3400	117.3220
E135.2	1018.2241	40275626.14	3.6457	32237.5178	##	B-16A	113.9300	116.7995
E135.1	1021.8684	41434483.01	4.1376	45792.2406	##	B-18A	113.1200	115.0382
L-A-1A	0.0000	0.0000	0.0000	716.1756	##	E135-04	105.5000	113.9255
E135.8	1020.9731	32333874.46	3.8175	24269.0574	##	D-2A	113.0500	113.9255
E135.4A	1014.8693	39264857.67	-4.1373	7969.7016	##	D-3A	113.2200	113.9263
E135.5	503.3256	38820665.44	7.8609	34569.7978	##	D-4A	113.7000	114.0192
E135.7	913.8489	32535141.00	3.3400	100444.4344	##	E135-03	104.4800	113.8301
E135.6	883.0221	32370161.85	-4.4517	45683.2679	##	E135-05	105.7900	113.9638
L_AN-0	21.9146	102743.1682	3.0843	5514.2168	##	E135-01	103.7300	113.7990
L_AS-1	11.2349	52647.6467	2.2683	2537.2616	##	A-1AA	119.5000	119.5000
L_AS-0	29.6663	153188.2852	4.1643	3781.4632	##	E135-08	106.8000	115.5523
Link985	109.2721	1487197.235	6.8258	7150.1136	##	E135-06	106.3825	115.4575
L_B-20-OF	-2.2817	-1654.1237	-0.1830	346.5210	##	E135-07	106.7158	115.5309
L_B-18-OF	0.0000	0.0000	0.0000	321.5592	##	E535-02	107.0000	115.5311
L_B-16-OF	16.3180	12505.6413	1.4356	337.3164	##	AN-0	108.1500	113.8165
L_B-12-OF	35.2439	48046.4579	3.0997	376.0826	##	AS-0	108.4500	115.2676
L_B-8-OF	0.0000	0.0000	0.0000	271.6481	##	AS-1	109.7070	115.5832
L_B-10-OF	16.6505	10501.0541	1.4653	341.6166	##	ML-01	110.0420	115.7987
L_B-6-OF	34.9659	30927.4699	3.0769	279.6086	##	E535-03	107.0000	115.4580
L_B-4-OF	0.0000	0.0000	0.0000	191.2285	##			
L_B-2-OF	0.0000	0.0000	0.0000	53.1577	##			
B-4 RCP	27.2149	135023.5378	3.8212	1852.5157	##			
B-4 OL	1.0980	739.9459	0.1168	1262.3611	##			
B-2 RCP	16.1168	76512.9887	4.9114	2038.4833	##			
B-2 OL	0.0000	0.0000	0.0000	6.2141	##			
B-19 RCB	115.4325	574135.7964	7.8537	3607.3166	##			
B-19 OL	0.0000	0.0000	0.0000	129.4225	##			
B-11 RCB	77.0890	377235.2212	3.8389	4010.1855	##			
B-11 OL	0.0000	0.0000	0.0000	0.0020	##			
02-RCP	-16.9844	399847.3158	-5.3671	339.2209	##			
03-RCP	-17.1870	583016.0177	-5.5267	472.3086	##			
E535-02 WEIR	-216.6569	-198416.366	0.0000	0.0000	##			
E535-03 WEIR	-691.7822	-748876.247	0.0000	0.0000	##			
FREE # 1	1021.8685	41434227.32	0.0000	0.0000	##			

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| Table E15a - SPREADSHEET REACH LIST |
| Peak flow and Total Flow listed by Reach or those |
| conduits or diversions having the same |
| upstream and downstream nodes. |
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Upstream Node	Downstream Node	Maximum Flow (cfs)	Total Flow (ft^3)
B-28	MH-B2	112.8565	729899.213
B-30	MH-B2	55.7722	279624.176
B-27	B-28	101.9629	676418.895
B-32	B-30	38.5505	199132.565
B-33	MH-B3	186.3746	4709237.71
B-34	MH-B3	132.5323	1733721.36
B-26	B-27	92.0413	627463.368
B-24	B-26	82.5832	579845.041
B-22	B-24	65.1946	478499.748
B-20	B-22	62.2046	458998.206
B-18	B-20	61.3804	437450.543
B-16	B-18	56.5812	390250.401
B-14	B-16	46.1623	311787.051
B-12	B-14	44.0505	284139.775
B-10	B-12	50.5942	301413.528
B-8	B-10	32.9322	218904.456
B-6	B-8	27.1239	164999.782
B-25	MH-B1	173.3601	856237.457
B-29	MH-B1	63.0795	301684.281
B-23	B-25	159.5601	789252.527

B-31	B-29	40.2784	192604.130
B-21	B-23	141.9489	701878.805
B-17	B-19	113.0979	560608.119
B-15	B-17	109.6514	537939.622
B-13	B-15	96.1051	469404.725
B-9	B-11	73.0896	355775.916
B-7	B-9	69.7094	333205.273
B-5	B-7	46.7668	223677.832
B-3	B-5	33.1989	156593.787
B-1	B-3	19.0338	88253.1660
A-1A	A-2A	3.2663	31974.1759
A-2A	A-5A	5.5246	32088.2399
A-5A	A-8A	24.0436	116322.574
A-8A	B-10A	28.8466	129909.083
B-10A	B-11A	41.3490	240699.611
B-11A	B-13A	49.9133	282330.995
B-13A	B-14A	48.8749	282720.877
B-14A	B-16A	49.6052	317381.407
B-16A	B-18A	52.4950	356177.224
D-4A	D-3A	0.7684	8910.5581
D-3A	D-2A	0.7635	8914.8330
D-2A	E135-04	3.9751	45351.6431
B-18A	E135-04	55.9989	401739.858
E135-05	E135-04	1006.6998	38817255.1
MH-B2	E135-03	1018.1571	40273848.0
E135-03	MH-B1	1018.2241	40275626.1
MH-B1	E135-01	1021.8684	41434483.0
E135-08	E135-07	1020.9731	32333874.5
E135-04	MH-B2	1014.8693	39264857.7
MH-B3	E135-05	1006.6513	38820665.4
E135-07	E135-06	913.8489	32535141.0
E135-06	MH-B3	883.0221	32370161.9
AN-0	B-31	21.9146	102743.168
AS-1	AS-0	11.2349	52647.6467
AS-0	B-32	29.6663	153188.285
ML-01	B-34	109.2721	1487197.23
B-20	B-14A	-2.2817	-1654.1237
B-16	B-11A	16.3180	12505.6413
B-12	B-10A	35.2439	48046.4579
B-10	A-8A	16.6505	10501.0541
B-6	A-5A	34.9659	30927.4699
B-4	B-6	28.3117	135763.484
B-2	B-4	16.1168	76512.9887
B-19	B-21	115.4325	574135.796
B-11	B-13	77.0890	377235.221
E535-02	E135-07	-16.9844	399847.316
E535-03	E135-06	-17.1870	583016.018
E535-02	E135-07	-216.6569	-198416.37
E535-03	E135-06	-691.7822	-748876.25

Table E19 - Junction Inflow & Outflow Listing
Units are either ft^3 or m^3 depending on the units in your model.

Junction Name	Constant Inflow to Node	User Inflow to Node	Interface Inflow to Node	DWF Inlow to Node	Inflow through Outfall	RNF Layer Inflow to Node	Outflow from Node	Evaporation from Node	Inflow from 2D Layer
B-28	0.0000	50427.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
B-30	0.0000	80235.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
B-27	0.0000	46242.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
B-32	0.0000	44982.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
B-33	0.0000	4.7069E+06	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
B-34	0.0000	244944.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
B-26	0.0000	44982.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
B-24	0.0000	99144.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
B-22	0.0000	17685.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	

B-20	0.0000	18207.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
B-18	0.0000	44964.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
B-16	0.0000	88749.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
B-14	0.0000	25254.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
B-12	0.0000	28233.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
B-10	0.0000	90747.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
B-8	0.0000	52335.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
B-6	0.0000	59967.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
B-4	0.0000	59994.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
B-2	0.0000	74970.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
B-25	0.0000	63999.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
B-29	0.0000	107109.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
B-23	0.0000	82089.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
B-31	0.0000	88506.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
B-21	0.0000	122832.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
B-19	0.0000	10728.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
B-17	0.0000	19728.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
B-15	0.0000	64908.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
B-13	0.0000	88794.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
B-11	0.0000	18828.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
B-9	0.0000	19386.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
B-7	0.0000	106911.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
B-5	0.0000	64908.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
B-3	0.0000	67131.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
B-1	0.0000	87426.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
A-1A	0.0000	32049.0100	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
A-5A	0.0000	39082.5150	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
B-10A	0.0000	60592.5350	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
B-11A	0.0000	26118.0100	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
B-14A	0.0000	35896.5150	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
B-16A	0.0000	38569.5150	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
B-18A	0.0000	43776.0200	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
D-2A	0.0000	36256.5150	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
D-4A	0.0000	8905.5050	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
E135-01	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	41.4342E+06	0.0000
E135-08	0.0000	32.3340E+06	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
E535-02	0.0000	252531.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
AN-0	0.0000	102555.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
AS-0	0.0000	100575.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
AS-1	0.0000	52461.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
ML-01	0.0000	1.4876E+06	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
E535-03	0.0000	836505.0100	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Table E20 - Junction Flooding and Volume Listing. The maximum volume is the total volume in the node including the volume in the flooded storage area. This is the max volume at any time. The volume in the flooded storage area is the total volume above the ground elevation, where the flooded pond storage area starts.
The fourth column is instantaneous, the fifth is the sum of the flooded volume over the entire simulation
Units are either ft^3 or m^3 depending on the units.

Junction Name	Surcharged Time (min)	Flooded Time(min)	Out of 1D-System (Flooded Volume)	Maximum Volume	Passed to 2D cell OR Volume Stored in allowed Flood Pond of 1D-System
MH-B2	0.0000	0.0000	0.0000	106.7624	0.0000
B-28	577.5000	0.0000	0.0000	81.0027	0.0000
B-30	617.1500	0.0000	0.0000	93.5925	0.0000
MH-B3	0.0000	0.0000	0.0000	115.5394	0.0000
B-27	546.2500	0.0000	0.0000	78.3986	0.0000
B-32	563.6333	0.0000	0.0000	82.8618	0.0000
B-33	311.6333	0.0000	0.0000	85.9966	0.0000
B-34	327.7667	0.0000	0.0000	73.9394	0.0000
B-26	508.9833	0.0000	0.0000	85.0691	0.0000
B-24	469.9833	0.0000	0.0000	88.7963	0.0000
B-22	423.2833	10.5667	0.0000	96.7151	8.5676
B-20	0.0000	0.0000	0.0000	444.5851	0.0000

B-18	0.0000	0.0000	0.0000	759.7750	0.0000
B-16	0.0000	0.0000	0.0000	1298.0045	0.0000
B-14	99.4667	55.5333	0.0000	609.0611	564.8064
B-12	0.0000	0.0000	0.0000	4342.1535	0.0000
B-10	0.0000	0.0000	0.0000	1406.5353	0.0000
B-8	0.0000	0.0000	0.0000	792.3658	0.0000
B-6	0.0000	0.0000	0.0000	1090.9240	0.0000
B-4	0.0000	0.0000	0.0000	82.7645	0.0000
B-2	0.0000	0.0000	0.0000	75.9308	0.0000
MH-B1	0.0000	0.0000	0.0000	121.5968	0.0000
B-25	568.3667	195.8667	0.0000	1428.0264	1372.4524
B-29	595.1000	163.7833	0.0000	641.3388	564.2728
B-23	548.8333	249.3333	0.0000	5768.9852	5867.3628
B-31	561.3667	91.7667	0.0000	131.5557	44.6956
B-21	0.0000	0.0000	0.0000	96.0088	0.0000
B-19	0.0000	0.0000	0.0000	94.1243	0.0000
B-17	543.4250	0.0000	0.0000	89.7268	0.0000
B-15	530.1250	0.0000	0.0000	91.2177	0.0000
B-13	0.0000	0.0000	0.0000	94.8475	0.0000
B-11	0.0000	0.0000	0.0000	94.3225	0.0000
B-9	435.6500	0.0000	0.0000	98.0829	0.0000
B-7	397.7667	0.0000	0.0000	99.9104	0.0000
B-5	357.4833	0.0833	0.0000	98.9582	1.2651
B-3	291.9333	0.0000	0.0000	93.0674	0.1748
B-1	204.2667	0.0000	0.0000	89.4317	0.0000
A-1A	0.0000	0.0000	0.0000	10.3777	0.0000
A-2A	0.0000	0.0000	0.0000	14.4173	0.0000
A-5A	0.0000	0.0000	0.0000	31.9128	0.0000
A-8A	0.0000	0.0000	0.0000	30.5042	0.0000
B-10A	16.5833	0.0000	0.0000	38.1321	0.0000
B-11A	0.0000	0.0000	0.0000	30.5753	0.0000
B-13A	0.0000	0.0000	0.0000	36.5130	0.0000
B-14A	0.0000	0.0000	0.0000	37.4713	0.0000
B-16A	0.0000	0.0000	0.0000	36.0576	0.0000
B-18A	0.0000	0.0000	0.0000	24.1041	0.0000
E135-04	0.0000	0.0000	0.0000	105.8744	0.0000
D-2A	0.0000	0.0000	0.0000	11.0015	0.0000
D-3A	0.0000	0.0000	0.0000	8.8749	0.0000
D-4A	0.0000	0.0000	0.0000	4.0115	0.0000
E135-03	0.0000	0.0000	0.0000	117.4932	0.0000
E135-05	0.0000	0.0000	0.0000	102.7116	0.0000
E135-01	0.0000	0.0000	0.0000	126.5273	0.0000
A-1AA	0.0000	0.0000	0.0000	0.0000	0.0000
E135-08	0.0000	0.0000	0.0000	109.9820	0.0000
E135-06	0.0000	0.0000	0.0000	114.0363	0.0000
E135-07	0.0000	0.0000	0.0000	110.7703	0.0000
E535-02	1448.6500	0.0000	0.0000	1322714.311	0.0000
AN-0	510.8167	0.0000	0.0000	71.2055	0.0000
AS-0	504.5000	40.6167	0.0000	3746.5183	4232.7768
AS-1	431.3333	0.0000	0.0000	73.8409	0.0000
ML-01	336.3333	0.0000	0.0000	72.3386	0.0000
E535-03	1913.9667	0.0000	0.0000	5026837.732	0.0000

==================================
| Simulation Specific Information |
==================================

Number of Input Conduits.....	76	Number of Simulated Conduits.....	79
Number of Natural Channels.....	8	Number of Junctions.....	64
Number of Storage Junctions.....	33	Number of Weirs.....	2
Number of Orifices.....	0	Number of Pumps.....	0
Number of Free Outfalls.....	1	Number of Tide Gate Outfalls.....	0

===
| Average % Change in Junction or Conduit is defined as: |
| Conduit % Change ==> 100.0 (Q(n+1) - Q(n)) / Qfull |
| Junction % Change ==> 100.0 (Y(n+1) - Y(n)) / Yfull |
===

The Conduit with the largest average change was..E535-03 WE with   16.737 percent
The Junction with the largest average change was.E135-01   with   0.016 percent
The Conduit with the largest sinuosity was.......L_B-6-OF   with   59.405

==
| Table E21. Continuity balance at the end of the simulation |

Junction Inflow, Outflow or Street Flooding
Error = Inflow + Initial Volume - Outflow - Final Volume

Inflow Junction	Inflow Volume,ft^3	Average Inflow, cfs
B-28	50426.9077	0.2918
B-30	80234.8548	0.4643
B-27	46241.9164	0.2676
B-32	44981.9192	0.2603
B-33	4.70691E+06	27.2391
B-34	244943.5581	1.4175
B-26	44981.9192	0.2603
B-24	99143.7636	0.5737
B-22	17684.9704	0.1023
B-20	18206.9673	0.1054
B-18	44963.9182	0.2602
B-16	88748.8376	0.5136
B-14	25253.9584	0.1461
B-12	28232.9498	0.1634
B-10	90746.8334	0.5252
B-8	52334.9057	0.3029
B-6	59966.8900	0.3470
B-4	59993.8903	0.3472
B-2	74969.8635	0.4339
B-25	63998.8832	0.3704
B-29	107108.8086	0.6198
B-23	82088.8511	0.4751
B-31	88505.8485	0.5122
B-21	122831.7746	0.7108
B-19	10727.9803	0.0621
B-17	19727.9858	0.1142
B-15	64907.8874	0.3756
B-13	88793.8392	0.5139
B-11	18827.9671	0.1090
B-9	19385.9871	0.1122
B-7	106910.8063	0.6187
B-5	64907.8874	0.3756
B-3	67130.8799	0.3885
B-1	87425.8399	0.5059
A-1A	32049.0098	0.1855
A-5A	39082.5078	0.2262
B-10A	60592.5280	0.3507
B-11A	26118.0097	0.1511
B-14A	35896.5084	0.2077
B-16A	38569.5076	0.2232
B-18A	43776.0118	0.2533
D-2A	36256.5082	0.2098
D-4A	8905.5049	0.0515
E135-08	32.33403E+06	187.1182
E535-02	252530.3172	1.4614
AN-0	102554.8159	0.5935
AS-0	100574.8166	0.5820
AS-1	52460.9055	0.3036
ML-01	1.48761E+06	8.6089
E535-03	836503.8078	4.8409
E135-01	-41.434E+06	-239.7814

Outflow Junction	Outflow Volume,ft^3	Average Outflow, cfs
E135-01	41.43423E+06	239.7814

Initial system volume	=	77412.7102 Cu Ft
Total system inflow volume	=	42.379769E+06 Cu Ft
Inflow + Initial volume	=	42.457181E+06 Cu Ft
Total system outflow	=	41.434227E+06 Cu Ft

```
| Volume left in system        =   1.023487E+06 Cu Ft |

| Evaporation                  =         0.0000 Cu Ft |

| Outflow + Final Volume       =  42.457714E+06 Cu Ft |

*=====================================================*


*=============================================*
| Total Model Continuity Error                |
| Error in Continuity, Percent =        -0.0013 |
| Error in Continuity, ft^3    =       -532.561 |
| + Error means a continuity loss, - a gain     |
*=============================================*

#####################################################
# Table E22. Numerical Model judgement section    #
#####################################################

Your overall error was                                    -0.0013 percent


Worst nodal error was in node E535-03          with         3.0754 percent


Of the total inflow this loss was                         0.1574 percent


Your overall continuity error was                  Excellent


                                                  Excellent Efficiency


Efficiency of the simulation                       1.32


Most Number of Non Convergences at one Node        0.


Total Number Non Convergences at all Nodes         0.


Total Number of Nodes with Non Convergences        0.



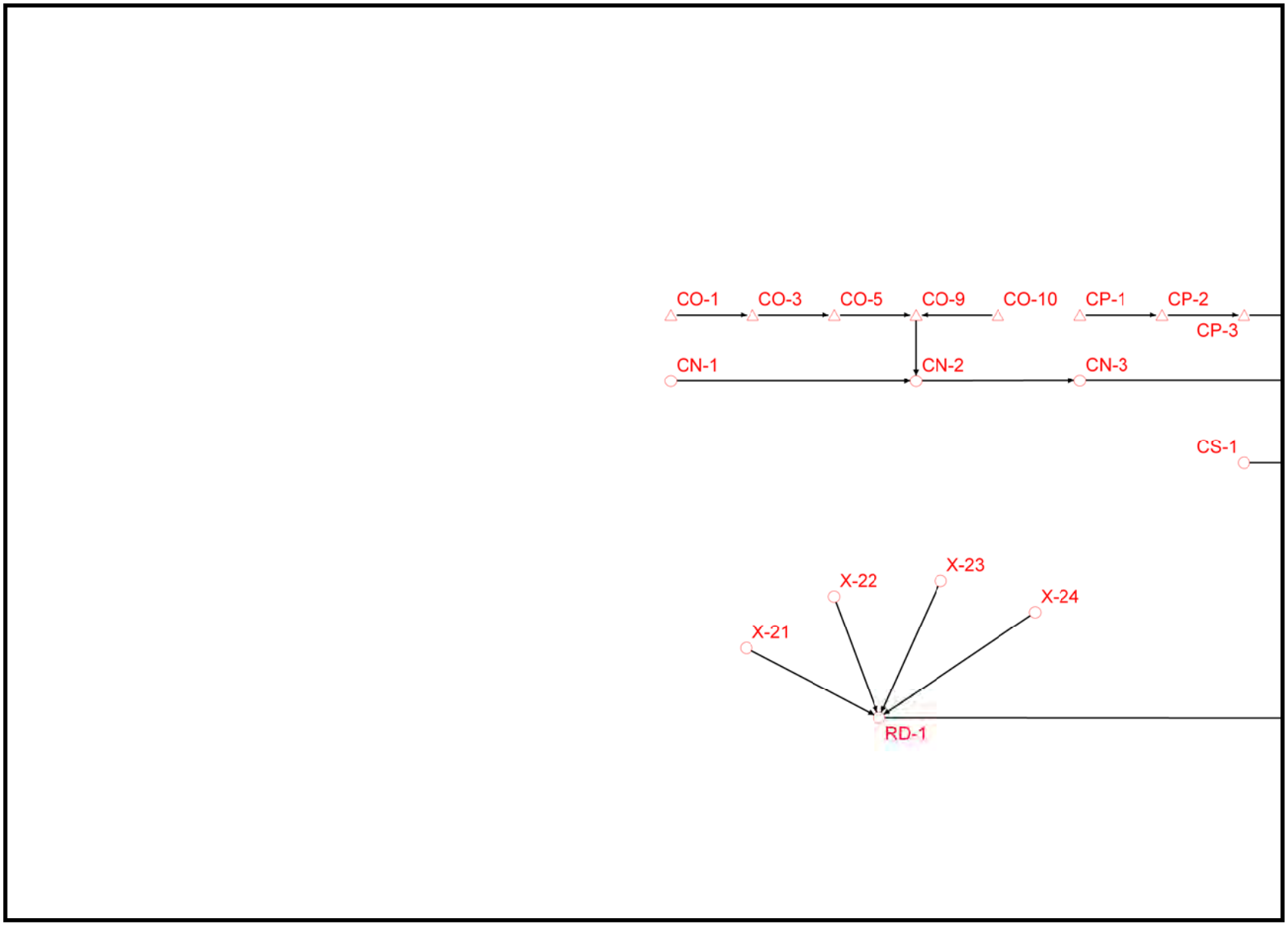
===> Hydraulic model simulation ended normally.
===> XP-SWMM Simulation ended normally.


===> Your input file was named  : P:\PROJECTS\290PMC\PhaseII\DRA\Models\SWMM\Segment D\SWMM\Mitigated Conditions\100YR_US290_Mit_SegD_SysB.DAT
===> Your output file was named : P:\PROJECTS\290PMC\PhaseII\DRA\Models\SWMM\Segment D\SWMM\Mitigated Conditions\100YR_US290_Mit_SegD_SysB.out

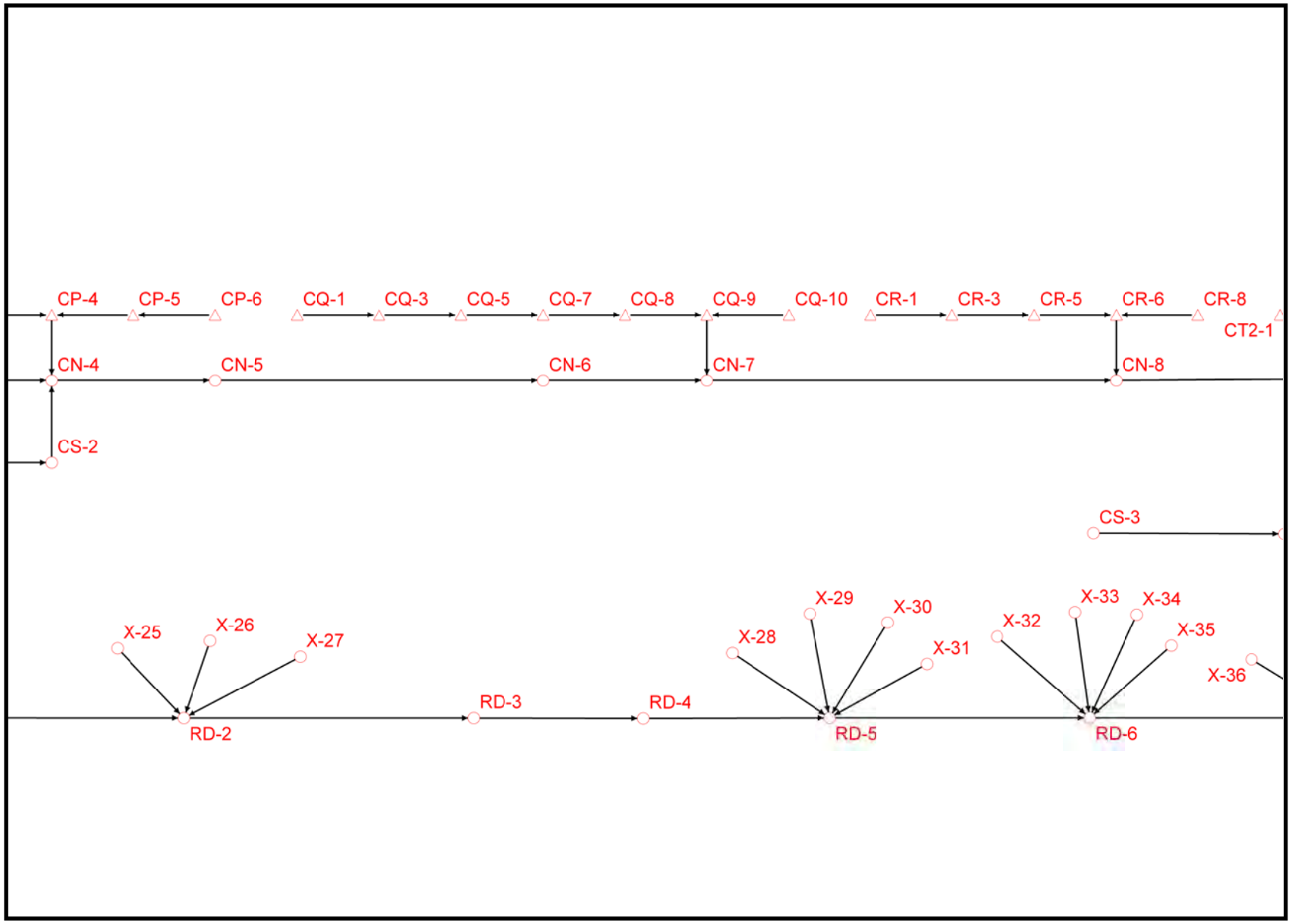
*============================================================*
|             SWMM Simulation Date and Time Summary          |
*============================================================*
| Starting Date... August     22, 2009  Time...   14:15:15:98  |
|   Ending Date... August     22, 2009  Time...   14:23:57:67  |
|  Elapsed Time...    8.69483 minutes or    521.69000 seconds  |
*============================================================*
```

OUTFALL 7
SWMM OUTPUT
100 YR- EXISTING CONDITIONS

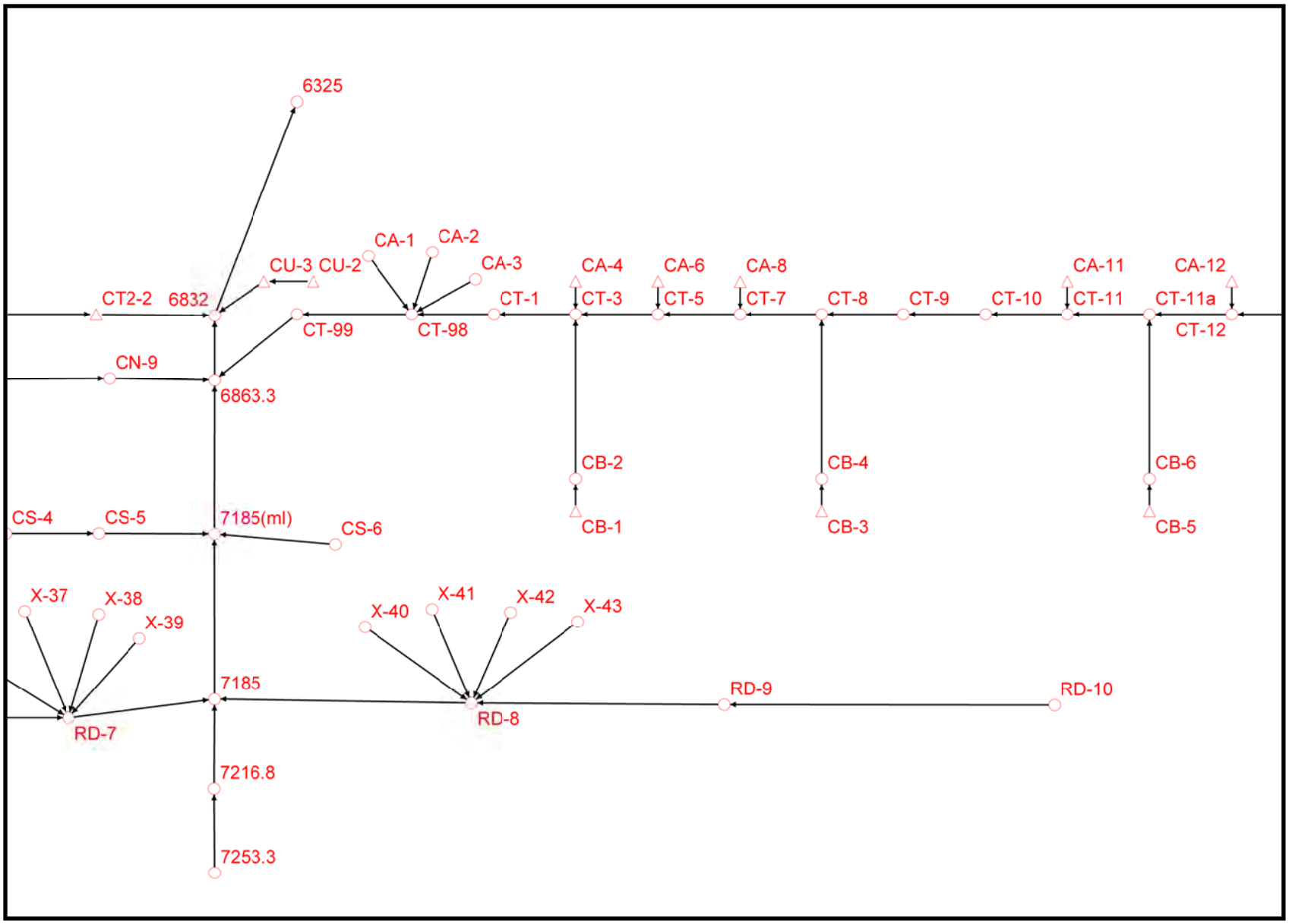
OUTFALL 7
EXISTING CONDITIONS SWMM LAYOUT



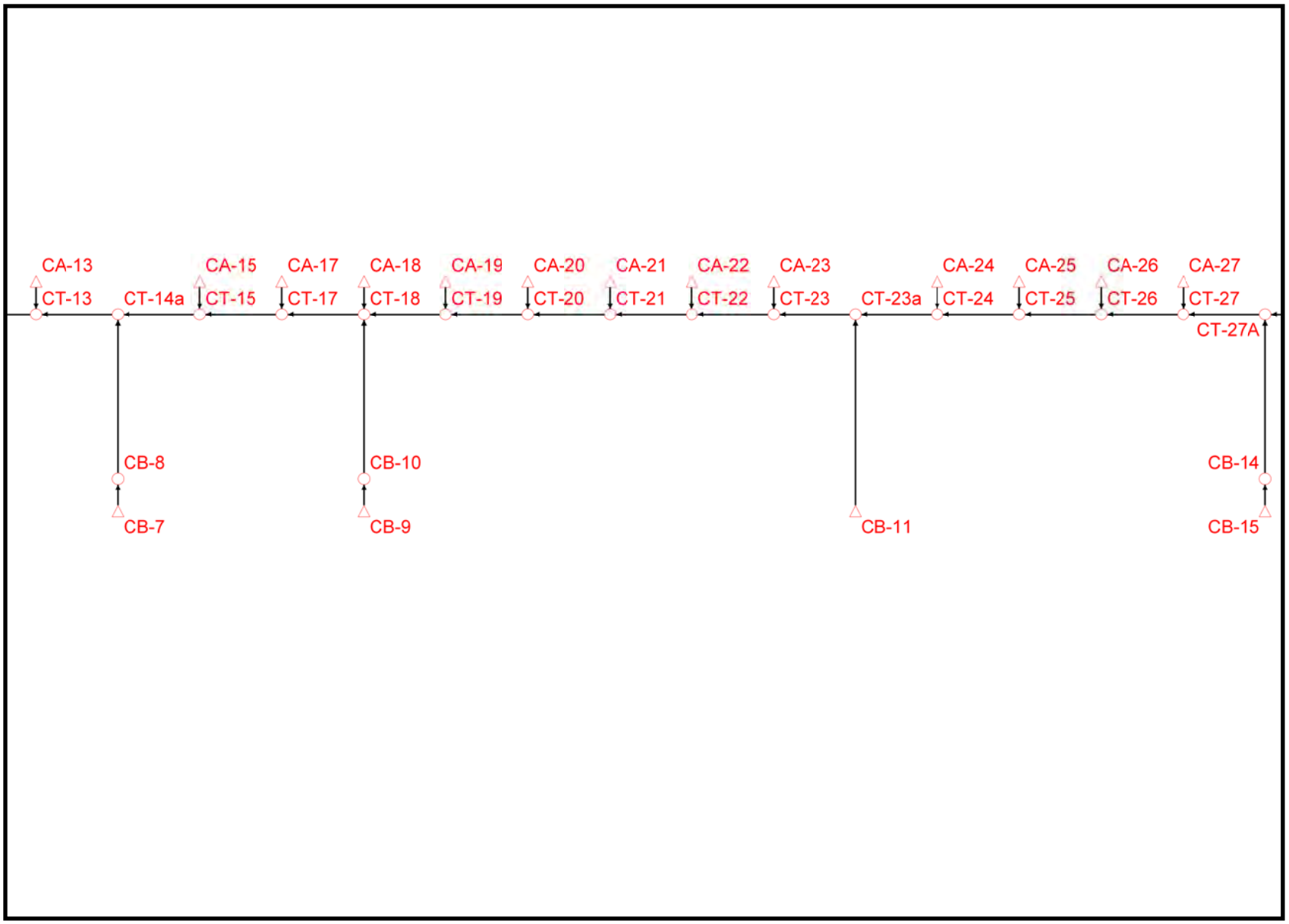
OUTFALL 7
EXISTING CONDITIONS SWMM LAYOUT



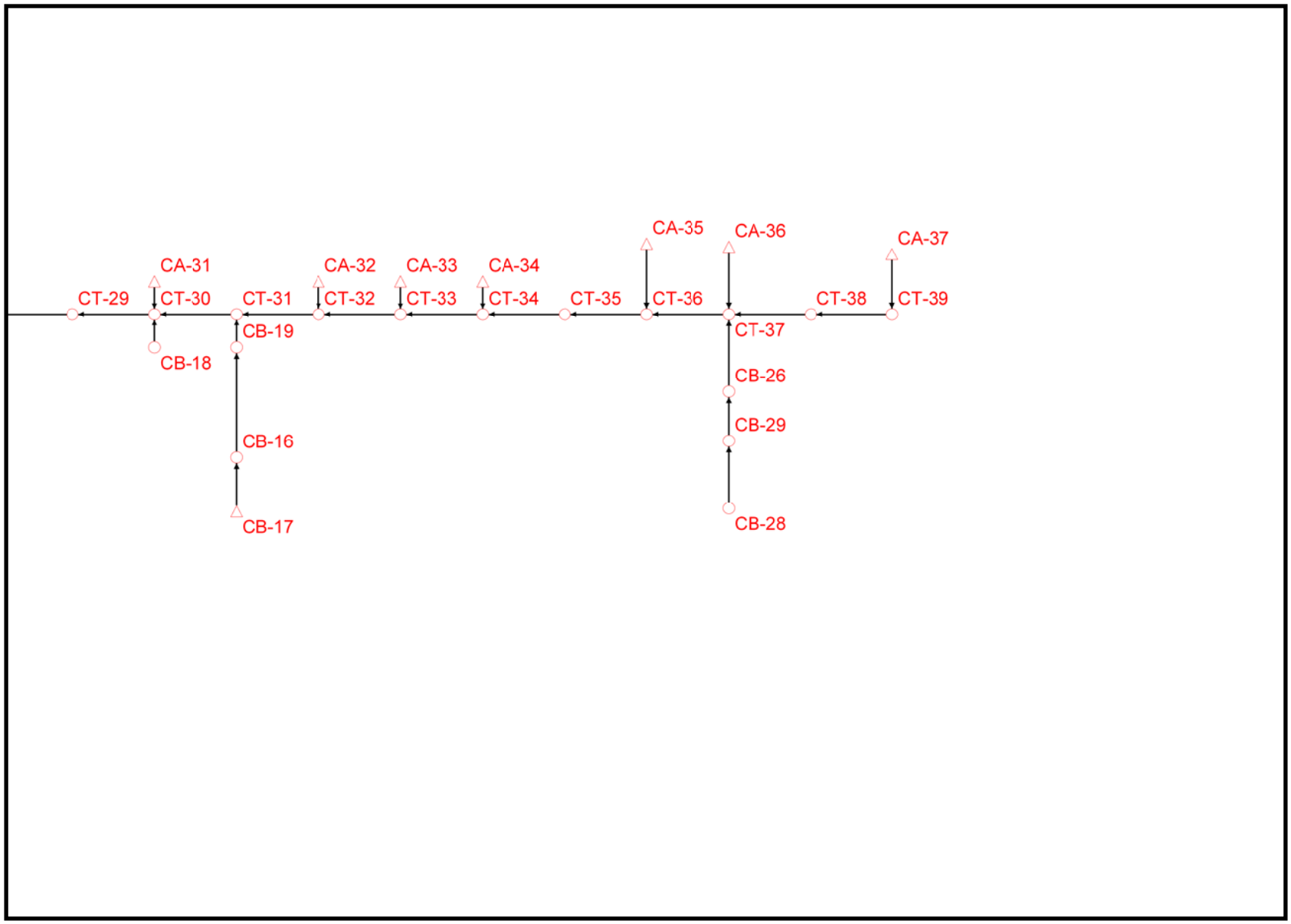
OUTFALL 7
EXISTING CONDITIONS SWMM LAYOUT



OUTFALL 7
EXISTING CONDITIONS SWMM LAYOUT



OUTFALL 7
EXISTING CONDITIONS SWMM LAYOUT



```
 Current Directory:   C:\XPS\xpstorm
 Engine Name: C:\XPS\xpstorm\SWMMEN~1.EXE


 Input File : JECTS\290PMC\PhaseII\DRA\Models\SWMM\Segment C\E127Existing100.XP

          *================================================*
          |                     xpswmm                     |
          |     Storm and Wastewater Management Model      |
          |           Interface Version: 10.52             |
          |              Engine Version: 10.54             |
          |================================================|
          |                                                |
          |                 Developed by                   |
          |                                                |
          |                 XP Software                    |
          |                                                |
          |================================================|
          |      XP Software       November, 2006          |
          |       Data File Version --->    11.9           |
          |       Serial Number: 66-1052-0602              |
          |                H & H Resources                 |
          *================================================*

Engine Name: C:\XPS\xpstorm\SWMMEN~1.EXE


*====================================================*
|       Input and Output file names by Layer         |
*====================================================*

 Input File  to Layer #     1 JOT.US
 Output File to Layer #     1 JOT.US

*============================================================*
|   Special command line arguments in XP-SWMM2000. This     |
|   now includes program defaults. $Keywords are the program|
|   defaults.  Other Keywords are from the SWMMCOM.CFG file.|
|   or the command line or any cfg file on the command line.|
|   Examples include these in the file xpswm.bat under the   |
|   section :solve or in the windows version XPSWMM32 in the|
|   file solve.bat                                           |
|                                                            |
|   Note: the cfg file should be in the subdirectory swmxp   |
|         or defined by the set variable in the xpswm.bat    |
|         file.  Some examples of the command lines possible|
|         are shown below:                                   |
|                                                            |
|   swmmd swmmcom.cfg                                        |
|   swmmd my.cfg                                             |
|   swmmd nokeys nconv5 perv extranwq                        |
*============================================================*

 $powerstation                        0.0000         1         2
 $perv                                0.0000         0         4
 $oldegg                              0.0000         0         7
 $as                                  0.0000         0        11
 $noflat                              0.0000         0        21
 $oldomega                            0.0000         0        24
 $oldvol                              0.0000         1        28
 $implicit                            0.0000         1        29
 $oldhot                              0.0000         1        31
 $oldscs                              0.0000         0        33
 $flood                               0.0000         1        40
 $nokeys                              0.0000         0        42
 $pzero                               0.0000         0        55
 $oldvol2                             0.0000         2        59
 $storage2                            0.0000         3        62
 $oldhot1                             0.0000         1        63
 $pumpwt                              0.0000         1        70
 $ecloss                              0.0000         1        77
 $exout                               0.0000         0        97
 SPATIAL=0.55                         0.5500         5       124
 $djref = -1.0                       -0.1000         3       143
 $weirlen = 50                       50.0000         1       153
 $oldbnd                              0.0000         1       154
 $nogrelev                            0.0000         1       161
 $ncmid                               0.0000         0       164
 $new_nl_97                           0.0000         2       290
 $best97                              0.0000         1       294
 $newbound                            0.0000         1       295
 $q_tol = 0.01                        0.0001         1       316
 $new_storage                         0.0000         1       322
 $old_iteration                       0.0000         1       333
 MINLEN=1.0                           1.0000         1       346
 $review_elevation                    0.0000         1       383
 $use_half_volume                     0.0000         1       385
 $min_ts = 0.5                        0.5000         1       407
 $design_restart = on                 0.0000         1       412
 $zero_value=1.e-05                   0.0000         1       415
 $relax_depth = on                    0.0000         1       427
 $saveallpts = on                     0.0000         1       434

 *============================================================*
 | Parameter Values on the Tapes Common Block.These are the |
 | values read from the data file and dynamically allocated |
 | by the model for this simulation.                        |
 *============================================================*

  Number of Subcatchments in the Runoff Block (NW)....     0
  Number of Channel/Pipes in the Runoff Block (NG)....     0
  Runoff Water quality constituents (NRQ).............     0
  Runoff Land Uses per Subcatchment (NLU).............     0
  Number of Elements in the Transport Block (NET).....     0
  Number of Storage Junctions in Transport (NTSE).....     0
  Number of Input Hydrographs in Transport (NTH)......     0
  Number of Elements in the Extran Block (NEE)........   169
  Number of Groundwater Subcatchments in Runoff (NGW).     0
  Number of Interface locations for all Blocks (NIE)..   169
  Number of Pumps in Extran (NEP).....................     0
  Number of Orifices in Extran (NEO)..................     0
  Number of Tide Gates/Free Outfalls in Extran (NTG)..     1
  Number of Extran Weirs (NEW)........................     0
  Number of scs hydrograph points.....................     1
  Number of Extran printout locations (NPO)...........     0
  Number of Tide elements in Extran (NTE).............     1
  Number of Natural channels (NNC)....................     6
  Number of Storage junctions in Extran (NVSE)........    60
  Number of Time history data points in Extran(NTVAL).     5
  Number of Variable storage elements in Extran (NVST)     7
  Number of Input Hydrographs in Extran (NEH).........   119
  Number of Particle sizes in Transport Block (NPS)...     0
  Number of User defined conduits (NHW)...............   169
  Number of Connecting conduits in Extran (NECC)......    20
  Number of Upstream elements in Transport (NTCC).....    10
  Number of Storage/treatment plants (NSTU)...........     1
```

```
 Number of Values for R1 lines in Transport (NR1)....     0
 Number of Nodes to be allowed for (NNOD)............   169
 Number of Plugs in a Storage Treatment Unit.........     1


####################################################
#    Entry made to the HYDRAULIC Layer(Block) of SWMM #
#    Last Updated June,2005 by XP Software           #

    US 290/Hempstead Hwy Corridor
    Drainage Impact Study - Existing Conditions Sys GH- /// 100-Year Freque


*==========================================================*
|        HYDRAULICS TABLES IN THE OUTPUT FILE              |
|  These are the more important tables in the output file.  |
|  You can use your editor to find the table numbers,       |
|  for example: search for Table E20 to check continuity.   |
|  This output file can be imported into a Word Processor   |
|  and printed on US letter or A4 paper using portrait      |
|  mode, courier font, a size of 8 pt. and margins of 0.75  |
|                                                           |
| Table E1   - Basic Conduit Data                           |
| Table E2   - Conduit Factor Data                          |
| Table E3a  - Junction Data                                |
| Table E3b  - Junction Data                                |
| Table E4   - Conduit Connectivity Data                    |
| Table E4a  - Dry Weather Flow Data                        |
| Table E4b  - Real Time Control Data                       |
| Table E5   - Junction Time Step Limitation Summary        |
| Table E5a  - Conduit Explicit Condition Summary           |
| Table E6   - Final Model Condition                        |
| Table E7   - Iteration Summary                            |
| Table E8   - Junction Time Step Limitation Summary        |
| Table E9   - Junction  Summary  Statistics                |
| Table E10  - Conduit   Summary  Statistics                |
| Table E11  - Area assumptions used in the analysis        |
| Table E12  - Mean conduit information                     |
| Table E13  - Channel losses(H) and culvert info           |
| Table E13a - Culvert Analysis Classification              |
| Table E14  - Natural Channel Overbank Flow Information    |
| Table E14a - Natural Channel Encroachment Information     |
| Table E14b - Floodplain Mapping                           |
| Table E15  - Spreadsheet Info List                        |
| Table E15a - Spreadsheet Reach List                       |
| Table E16  - New Conduit Output Section                   |
| Table E17  - Pump Operation                               |
| Table E18  - Junction Continuity Error                    |
| Table E19  - Junction Inflow & Outflow Listing            |
| Table E20  - Junction Flooding and Volume List            |
| Table E21  - Continuity balance at simulation end         |
| Table E22  - Model Judgement Section                      |
*==========================================================*

Time Control from Hydraulics Job Control
Year.........    2007 Month.......       1
Day..........       1 Hour........       0
Minute.......       0 Second......       0


Control information for simulation
----------------------------------

Integration cycles..................      6480
Length of integration step is......     20.00 seconds
Simulation length...................     36.00 hours
Do not create equiv. pipes(NEQUAL).         0
Use U.S. customary units for I/O...         0
Printing starts in cycle...........         1
Intermediate printout intervals of.       180 cycles
Intermediate printout intervals of.     60.00 minutes
Summary printout intervals of......       180 cycles
Summary printout time interval of..     60.00 minutes
Hot start file parameter (REDO)....         0
Initial time.......................      0.00 hours

Iteration variables: Flow Tolerance.   0.00010
                     Head Tolerance.   0.00050
    Minimum depth (m or ft).........   0.00001
    Underrelaxation parameter.......   0.85000
    Time weighting parameter........   0.85000
    Conduit roughness factor........   1.00000
    Flow adjustment factor..........   1.00000
    Initial Condition Smoothing.....         0
    Courant Time Step Factor........   1.00000
    Default Expansion/Contraction K.   0.00000
    Default Entrance/Exit K.........   0.00000
    Routing Method..................   Dynamic Wave
Default surface area of junctions...     12.57 square feet.
Minimum Junction/Conduit Depth......   0.00001 feet.
Ponding Area Coefficient............   5000.00
Ponding Area Exponent...............    1.0000
Minimum Orifice Length..............   1000.00 feet.
NJSW input hydrograph junctions.....   119
     or user defined hydrographs....

        Natural Cross-Section information for Channel Link587
        =====================================================
         Cross-Section ID (from X1 card) :     1.0 Channel sequence number :     1

  Left Overbank Length   :     36.5 ft               Maximum Elevation        :   112.56 ft.
  Main Channel Length    :     36.5 ft               Maximum Depth            :    13.09 ft.
  Right Overbank Length  :     36.5 ft               Maximum Section Area     : 8917.915 ft^2
                                                     Maximum hydraulic radius :     2.87 ft.
  Manning N :      0.080  to Station        4981.1    Max topwidth             :  3104.10 ft.
    "    "  :      0.050  in main Channel            Maximum Wetted Perimeter : 3.11E+03 ft
    "    "  :      0.080  Beyond station    5022.4    Max left bank area       :  3214.71 ft^2
                                                     Max right bank area      :  5364.06 ft^2
  Allowable Encroachment Depth :    0.00 ft          Max center channel area  : 339.1433 ft^2

        Natural Cross-Section information for Channel Link588
        =====================================================
         Cross-Section ID (from X1 card) :     2.0 Channel sequence number :     2

  Left Overbank Length   :     70.0 ft               Maximum Elevation        :   112.52 ft.
  Main Channel Length    :     70.0 ft               Maximum Depth            :    14.07 ft.
  Right Overbank Length  :     70.0 ft               Maximum Section Area     : 8633.354 ft^2
                                                     Maximum hydraulic radius :     2.77 ft.
  Manning N :      0.080  to Station        4942.9    Max topwidth             :  3115.70 ft.
    "    "  :      0.050  in main Channel            Maximum Wetted Perimeter : 3.12E+03 ft
    "    "  :      0.080  Beyond station    5057.6    Max left bank area       :  2836.51 ft^2
                                                     Max right bank area      :  4849.36 ft^2
  Allowable Encroachment Depth :    0.00 ft          Max center channel area  : 947.4820 ft^2

        Natural Cross-Section information for Channel Link589
        =====================================================
         Cross-Section ID (from X1 card) :     3.0 Channel sequence number :     3
```

Left Overbank Length	: 31.3 ft	Maximum Elevation	: 112.52 ft.
Main Channel Length	: 31.3 ft	Maximum Depth	: 14.07 ft.
Right Overbank Length	: 31.3 ft	Maximum Section Area	: 8633.354 ft^2
		Maximum hydraulic radius	: 2.77 ft.
Manning N : 0.080	to Station 4942.9	Max topwidth	: 3115.70 ft.
" " : 0.050	in main Channel	Maximum Wetted Perimeter	: 3.12E+03 ft
" " : 0.080	Beyond station 5057.6	Max left bank area	: 2836.51 ft^2
		Max right bank area	: 4849.36 ft^2
Allowable Encroachment Depth : 0.00 ft		Max center channel area	: 947.4820 ft^2

Natural Cross-Section information for Channel Link590

Cross-Section ID (from X1 card) : 4.0 Channel sequence number : 4

Left Overbank Length	: 529.8 ft	Maximum Elevation	: 112.03 ft.
Main Channel Length	: 507.0 ft	Maximum Depth	: 13.26 ft.
Right Overbank Length	: 489.6 ft	Maximum Section Area	: 5145.597 ft^2
		Maximum hydraulic radius	: 2.47 ft.
Manning N : 0.080	to Station 4970.5	Max topwidth	: 2082.90 ft.
" " : 0.050	in main Channel	Maximum Wetted Perimeter	: 2.09E+03 ft
" " : 0.080	Beyond station 5029.5	Max left bank area	: 3170.16 ft^2
		Max right bank area	: 1420.67 ft^2
Allowable Encroachment Depth : 0.00 ft		Max center channel area	: 554.7660 ft^2

Natural Cross-Section information for Channel Link655

Cross-Section ID (from X1 card) : 5.0 Channel sequence number : 5

Left Overbank Length	: 31.8 ft	Maximum Elevation	: 112.53 ft.
Main Channel Length	: 31.8 ft	Maximum Depth	: 13.09 ft.
Right Overbank Length	: 31.8 ft	Maximum Section Area	: 8917.915 ft^2
		Maximum hydraulic radius	: 2.87 ft.
Manning N : 0.080	to Station 4981.1	Max topwidth	: 3104.10 ft.
" " : 0.050	in main Channel	Maximum Wetted Perimeter	: 3.11E+03 ft
" " : 0.080	Beyond station 5022.4	Max left bank area	: 3214.71 ft^2
		Max right bank area	: 5364.06 ft^2
Allowable Encroachment Depth : 0.00 ft		Max center channel area	: 339.1433 ft^2

Natural Cross-Section information for Channel Link665

Cross-Section ID (from X1 card) : 6.0 Channel sequence number : 6

Left Overbank Length	: 251.7 ft	Maximum Elevation	: 112.52 ft.
Main Channel Length	: 251.7 ft	Maximum Depth	: 14.07 ft.
Right Overbank Length	: 251.7 ft	Maximum Section Area	: 8633.354 ft^2
		Maximum hydraulic radius	: 2.77 ft.
Manning N : 0.080	to Station 4942.9	Max topwidth	: 3115.70 ft.
" " : 0.050	in main Channel	Maximum Wetted Perimeter	: 3.12E+03 ft
" " : 0.080	Beyond station 5057.6	Max left bank area	: 2836.51 ft^2
		Max right bank area	: 4849.36 ft^2
Allowable Encroachment Depth : 0.00 ft		Max center channel area	: 947.4820 ft^2

Table E1 - Conduit Data

Inp Num	Conduit Name	Length (ft)	Conduit Class	Area (ft^2)	Manning Coef.	Max Width (ft)	Depth (ft)	Trapezoid Side Slopes
1	L-CA-4	48.0000	Circular	1.7671	0.0130	1.5000	1.5000	
2	L-CA-6	48.0000	Circular	1.7671	0.0130	1.5000	1.5000	
3	L-CA-8	48.0000	Circular	1.7671	0.0130	1.5000	1.5000	
4	L-CA-9	45.0000	Circular	4.9087	0.0130	2.5000	2.5000	
5	L-CA-11	48.0000	Circular	1.7671	0.0130	1.5000	1.5000	
6	L-CA-12	48.0000	Circular	1.7671	0.0130	1.5000	1.5000	
7	L-CA-13	48.0000	Circular	1.7671	0.0130	1.5000	1.5000	
8	L-CA-15	48.0000	Circular	1.7671	0.0130	1.5000	1.5000	
9	L-CA-17	48.0000	Circular	1.7671	0.0130	1.5000	1.5000	
10	L-CA-18	48.0000	Circular	1.7671	0.0130	1.5000	1.5000	
11	L-CA-19	48.0000	Circular	1.7671	0.0130	1.5000	1.5000	
12	L-CA-20	48.0000	Circular	1.7671	0.0130	1.5000	1.5000	
13	L-CA-21	48.0000	Circular	1.7671	0.0130	1.5000	1.5000	
14	L-CA-22	48.0000	Circular	1.7671	0.0130	1.5000	1.5000	
15	L-CA-23	48.0000	Circular	1.7671	0.0130	1.5000	1.5000	
16	L-CA-24	48.0000	Circular	1.7671	0.0130	1.5000	1.5000	
17	L-CA-25	48.0000	Circular	1.7671	0.0130	1.5000	1.5000	
18	L-CA-26	48.0000	Circular	1.7671	0.0130	1.5000	1.5000	
19	L-CA-27	48.0000	Circular	1.7671	0.0130	1.5000	1.5000	
20	L-CA-31	48.0000	Circular	1.7671	0.0130	1.5000	1.5000	
21	L-CA-32	48.0000	Circular	1.7671	0.0130	1.5000	1.5000	
22	L-CA-33	48.0000	Circular	1.7671	0.0130	1.5000	1.5000	
23	L-CA-34	48.0000	Circular	1.7671	0.0130	1.5000	1.5000	
24	L-CA-35	48.0000	Circular	1.7671	0.0130	1.5000	1.5000	
25	L-CA-36	48.0000	Circular	1.7671	0.0130	1.5000	1.5000	
26	L-CA-37	48.0000	Circular	1.7671	0.0130	1.5000	1.5000	
27	L-CB-1	39.0000	Circular	1.7671	0.0130	1.5000	1.5000	
28	L-CB-2	193.0000	Circular	3.1416	0.0130	2.0000	2.0000	
29	L-CB-3	39.0000	Circular	1.7671	0.0130	1.5000	1.5000	
30	L-CB-4	193.0000	Circular	3.1416	0.0130	2.0000	2.0000	
31	L-CB-5	39.0000	Circular	1.7671	0.0130	1.5000	1.5000	
32	L-CB-6	193.0000	Circular	3.1416	0.0130	2.0000	2.0000	
33	L-CB-7	39.0000	Circular	1.7671	0.0130	1.5000	1.5000	
34	L-CB-8	193.0000	Circular	3.1416	0.0130	2.0000	2.0000	
35	L-CB-9	32.0000	Circular	1.7671	0.0130	1.5000	1.5000	
36	L-CB-10	200.0000	Circular	3.1416	0.0130	2.0000	2.0000	
37	L-CB-11	232.0000	Circular	1.7671	0.0130	1.5000	1.5000	
38	L-CB-15	45.0000	Circular	1.7671	0.0130	1.5000	1.5000	
39	L-CB-14	187.0000	Circular	3.1416	0.0130	2.0000	2.0000	
40	L-CB-18	12.0000	Circular	1.7671	0.0130	1.5000	1.5000	
41	L-CB-17	60.0000	Circular	1.7671	0.0130	1.5000	1.5000	
42	L-CB-16	160.0000	Circular	3.1416	0.0130	2.0000	2.0000	
43	L-CB-19	12.0000	Circular	4.9087	0.0130	2.5000	2.5000	
44	L-CB-28	24.0000	Circular	1.7671	0.0130	1.5000	1.5000	
45	L-CB-29	68.0000	Circular	1.7671	0.0130	1.5000	1.5000	
46	L-CB-26	12.0000	Circular	3.1416	0.0130	2.0000	2.0000	
47	L-CT-39	100.0000	Circular	7.0686	0.0130	3.0000	3.0000	
48	L-CT-38	100.0000	Circular	9.6211	0.0130	3.5000	3.5000	
49	L-CT-37	100.0000	Circular	12.5664	0.0130	4.0000	4.0000	
50	L-CT-36	100.0000	Circular	12.5664	0.0130	4.0000	4.0000	
51	L-CT-35	75.0000	Rectangle	16.0000	0.0130	4.0000	4.0000	
52	L-CT-34	99.0000	Rectangle	16.0000	0.0130	4.0000	4.0000	
53	L-CT-33	116.0000	Rectangle	16.0000	0.0130	4.0000	4.0000	
54	L-CT-32	88.0000	Rectangle	16.0000	0.0130	4.0000	4.0000	
55	L-CT-31	122.0000	Rectangle	20.0000	0.0130	5.0000	4.0000	
56	L-CT-30	69.0000	Rectangle	20.0000	0.0130	5.0000	4.0000	
57	L-CT-27a	30.0000	Rectangle	28.0000	0.0130	7.0000	4.0000	
58	L-CT-27	120.0000	Rectangle	28.0000	0.0130	7.0000	4.0000	
59	L-CT-26	70.0000	Rectangle	28.0000	0.0130	7.0000	4.0000	
60	L-CT-25	105.0000	Rectangle	32.0000	0.0130	8.0000	4.0000	
61	L-CT-24	35.0000	Rectangle	32.0000	0.0130	8.0000	4.0000	
62	L-CT-23a	20.0000	Rectangle	32.0000	0.0130	8.0000	4.0000	
63	L-CT-23	58.0000	Rectangle	32.0000	0.0130	8.0000	4.0000	
64	L-CT-22	72.0000	Rectangle	32.0000	0.0130	8.0000	4.0000	
65	L-CT-21	70.0000	Rectangle	32.0000	0.0130	8.0000	4.0000	
66	L-CT-20	65.0000	Rectangle	32.0000	0.0130	8.0000	4.0000	
67	L-CT-19	70.0000	Rectangle	32.0000	0.0130	8.0000	4.0000	
68	L-CT-18	155.0000	Rectangle	32.0000	0.0130	8.0000	4.0000	

69	L-CT-15	33.0000	Rectangle	20.0000	0.0130	5.0000	4.0000	
70	L-CT-13	170.0000	Rectangle	28.0000	0.0130	7.0000	4.0000	
71	L-CT-12	60.0000	Rectangle	28.0000	0.0130	7.0000	4.0000	
72	L-CT-11a	30.0000	Rectangle	28.0000	0.0130	7.0000	4.0000	
73	L-CT-11	90.0000	Rectangle	28.0000	0.0130	7.0000	4.0000	
74	L-CT-10	100.0000	Rectangle	28.0000	0.0130	7.0000	4.0000	
75	L-CT-9	140.0000	Rectangle	28.0000	0.0130	7.0000	4.0000	
76	L-CT-8	90.0000	Rectangle	28.0000	0.0130	7.0000	4.0000	
77	L-CT-3	264.0000	Rectangle	28.0000	0.0130	7.0000	4.0000	
78	L-CT-1	114.0000	Rectangle	28.0000	0.0130	7.0000	4.0000	
79	L-CT-97	116.0000	Rectangle	28.0000	0.0130	7.0000	4.0000	
80	L-CT-98	116.0000	Rectangle	28.0000	0.0130	7.0000	4.0000	
81	L-CP-1	93.0000	Circular	1.7671	0.0130	1.5000	1.5000	
82	L-CP-2	190.0000	Circular	3.1416	0.0130	2.0000	2.0000	
83	L-CP-3	93.0000	Circular	3.1416	0.0130	2.0000	2.0000	
84	L-CP-6	97.0000	Circular	1.7671	0.0130	1.5000	1.5000	
85	L-CP-5	93.0000	Circular	1.7671	0.0130	1.5000	1.5000	
86	L-CP-4	30.0000	Circular	3.1416	0.0130	2.0000	2.0000	
87	L-CQ-7	210.0000	Circular	4.9087	0.0130	2.5000	2.5000	
88	L-CQ-8	153.0000	Circular	7.0686	0.0130	3.0000	3.0000	
89	L-CQ-9	58.0000	Circular	7.0686	0.0130	3.0000	3.0000	
90	L-CQ-10	85.0000	Circular	1.7671	0.0130	1.5000	1.5000	
91	L-CR-5	155.0000	Circular	4.9087	0.0130	2.5000	2.5000	
92	L-CR-6	50.0000	Circular	4.9087	0.0130	2.5000	2.5000	
93	L-CS-1	195.0000	Circular	4.9087	0.0130	2.5000	2.5000	
94	L-CS-2	226.0000	Circular	4.9087	0.0130	2.5000	2.5000	
95	L-CN-1	486.0000	Circular	4.9087	0.0130	2.5000	2.5000	
96	L-CN-2	315.0000	Rectangle	16.0000	0.0130	4.0000	4.0000	
97	L-CN-3	400.0000	Rectangle	16.0000	0.0130	4.0000	4.0000	
98	L-CN-4	500.0000	Rectangle	16.0000	0.0130	4.0000	4.0000	
99	L-CN-5	600.0000	Rectangle	16.0000	0.0130	4.0000	4.0000	
100	L-CN-6	395.0000	Rectangle	16.0000	0.0130	4.0000	4.0000	
101	L-CN-7	980.0000	Rectangle	25.0000	0.0130	5.0000	5.0000	
102	L-CN-8	390.0000	Rectangle	25.0000	0.0130	5.0000	5.0000	
103	L-CT2-1	90.0000	Circular	1.7671	0.0130	1.5000	1.5000	
104	L-CT2-2	198.0000	Circular	1.7671	0.0130	1.5000	1.5000	
105	L-CU-2	83.0000	Circular	1.7671	0.0130	1.5000	1.5000	
106	L-CU-3	296.0000	Circular	3.1416	0.0130	2.0000	2.0000	
107	L-CO-1	185.0000	Circular	1.7671	0.0130	1.5000	1.5000	
108	L-CO-5	363.0000	Circular	4.9087	0.0130	2.5000	2.5000	
109	L-CO-10	110.0000	Circular	1.7671	0.0130	1.5000	1.5000	
110	L-CR-1	155.0000	Circular	1.7671	0.0130	1.5000	1.5000	
111	L-CR-3	330.0000	Circular	3.1416	0.0130	2.0000	2.0000	
112	L-CQ-1	115.0000	Circular	1.7671	0.0130	1.5000	1.5000	
113	L-CQ-2	275.0000	Circular	3.1416	0.0130	2.0000	2.0000	
114	L-CQ-5	300.0000	Circular	4.9087	0.0130	2.5000	2.5000	
115	L-CR-8	165.0000	Circular	1.7671	0.0130	1.5000	1.5000	
116	Link587	36.5000	Natural	8917.9154	0.0500	3104.1000	13.0900	
117	Link588	70.0000	Natural	8633.3540	0.0500	3115.7000	14.0700	
118	Link589	31.3000	Natural	8633.3540	0.0500	3115.7000	14.0700	
119	Link590	507.0000	Natural	5145.5970	0.0500	2082.9000	13.2600	
120	Link615	33.0000	Circular	4.9087	0.0130	2.5000	2.5000	
121	Link616	33.0000	Circular	4.9087	0.0130	2.5000	2.5000	
122	Link617	33.0000	Circular	4.9087	0.0130	2.5000	2.5000	
123	Link618	33.0000	Circular	4.9087	0.0130	2.5000	2.5000	
124	Link619	33.0000	Circular	4.9087	0.0130	2.5000	2.5000	
125	Link620	33.0000	Circular	4.9087	0.0130	2.5000	2.5000	
126	Link621	33.0000	Circular	4.9087	0.0130	2.5000	2.5000	
127	Link622	33.0000	Circular	3.1416	0.0130	2.0000	2.0000	
128	Link623	33.0000	Circular	3.1416	0.0130	2.0000	2.0000	
129	Link624	33.0000	Circular	3.1416	0.0130	2.0000	2.0000	
130	Link625	33.0000	Circular	3.1416	0.0130	2.0000	2.0000	
131	Link626	33.0000	Circular	3.1416	0.0130	2.0000	2.0000	
132	Link627	33.0000	Circular	3.1416	0.0130	2.0000	2.0000	
133	Link628	33.0000	Circular	3.1416	0.0130	2.0000	2.0000	
134	Link629	33.0000	Circular	3.1416	0.0130	2.0000	2.0000	
135	Link630	33.0000	Circular	3.1416	0.0130	2.0000	2.0000	
136	Link631	33.0000	Circular	3.1416	0.0130	2.0000	2.0000	
137	Link632	33.0000	Circular	3.1416	0.0130	2.0000	2.0000	
138	Link633	33.0000	Circular	3.1416	0.0130	2.0000	2.0000	
139	Link634	33.0000	Circular	3.1416	0.0130	2.0000	2.0000	
140	Link635	33.0000	Circular	3.1416	0.0130	2.0000	2.0000	
141	Link636	33.0000	Circular	3.1416	0.0130	2.0000	2.0000	
142	Link637	33.0000	Circular	3.1416	0.0130	2.0000	2.0000	
143	L-CT-14	148.9360	Rectangle	28.0000	0.0130	7.0000	4.0000	
144	L-CT-7	127.2730	Rectangle	28.0000	0.0130	7.0000	4.0000	
145	L-CT-5	127.2730	Rectangle	28.0000	0.0130	7.0000	4.0000	
146	L-CT-17	160.0000	Rectangle	20.0000	0.0130	5.0000	4.0000	
147	L-CT-29	162.7910	Rectangle	24.0000	0.0130	6.0000	4.0000	
148	L-CO-3	181.0000	Circular	3.1416	0.0130	2.0000	2.0000	
149	L-RD-1	1144.0000	Trapezoid	56.0000	0.0350	2.0000	4.0000	3.0000 3.0000
150	L-RD-2	508.0000	Trapezoid	56.0000	0.0350	2.0000	4.0000	3.0000 3.0000
151	L-RD-5	1225.0000	Trapezoid	56.0000	0.0350	2.0000	4.0000	3.0000 3.0000
152	L-RD-6	1054.0000	Trapezoid	56.0000	0.0350	2.0000	4.0000	3.0000 3.0000
153	L-RD-7	510.0000	Trapezoid	56.0000	0.0350	2.0000	4.0000	3.0000 3.0000
154	Link649	636.0000	Circular	12.5664	0.0350	4.0000	4.0000	
155	L-RD-3	60.0000	Circular	4.9087	0.0130	2.5000	2.5000	
156	L-RD-4	613.0000	Trapezoid	56.0000	0.0350	2.0000	4.0000	3.0000 3.0000
157	Link652	1352.0000	Circular	3.1416	0.0130	2.0000	2.0000	
158	Link653	1087.0000	Circular	3.1416	0.0130	2.0000	2.0000	
159	Link655	31.8000	Natural	8917.9153	0.0500	3104.1000	13.0900	
160	Link656	250.0000	Trapezoid	8.0000	0.0400	5.0000	1.0000	3.0000 3.0000
161	Link657	150.0000	Trapezoid	7.0000	0.0400	4.0000	1.0000	3.0000 3.0000
162	Link658	50.0000	Trapezoid	6.9300	0.0400	5.0000	0.9000	3.0000 3.0000
163	Link659	700.0000	Trapezoid	8.0000	0.0400	5.0000	1.0000	3.0000 3.0000
164	Link661	307.0000	Rectangle	25.0000	0.0130	5.0000	5.0000	
165	Link662	48.0000	Circular	1.7671	0.0130	1.5000	1.5000	
166	Link663	48.0000	Circular	1.7671	0.0130	1.5000	1.5000	
167	Link664	48.0000	Circular	1.7671	0.0130	1.5000	1.5000	
168	Link665	251.7000	Natural	8633.3540	0.0500	3115.7000	14.0700	

Total length of all conduits .... 27222.5730 feet

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| Table E2 - Conduit Factor Data |
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Conduit Name	Number of Barrels	Entrance Loss Coef	Exit Loss Coef	Exp/Contc Coefficnt	Time Weighting Parameter	Low Flow Roughness Factor	Depth at Which n Changes	Flow Routing
L-CT-15	2.0000	0.0000	0.0000	0.0000	0.6500	1.0000	0.0000	Standard - Dynamic Wave
L-CT-13	2.0000	0.0000	0.0000	0.0000	0.6500	1.0000	0.0000	Standard - Dynamic Wave
L-CT-12	2.0000	0.0000	0.0000	0.0000	0.6500	1.0000	0.0000	Standard - Dynamic Wave
L-CT-11a	2.0000	0.0000	0.0000	0.0000	0.6500	1.0000	0.0000	Standard - Dynamic Wave
L-CT-11	2.0000	0.0000	0.0000	0.0000	0.6500	1.0000	0.0000	Standard - Dynamic Wave
L-CT-10	2.0000	0.0000	0.0000	0.0000	0.6500	1.0000	0.0000	Standard - Dynamic Wave
L-CT-9	2.0000	0.0000	0.0000	0.0000	0.6500	1.0000	0.0000	Standard - Dynamic Wave
L-CT-8	2.0000	0.0000	0.0000	0.0000	0.6500	1.0000	0.0000	Standard - Dynamic Wave
L-CT-3	2.0000	0.0000	0.0000	0.0000	0.6500	1.0000	0.0000	Standard - Dynamic Wave
L-CT-1	2.0000	0.0000	0.0000	0.0000	0.6500	1.0000	0.0000	Standard - Dynamic Wave
L-CT-97	2.0000	0.0000	0.0000	0.0000	0.6500	1.0000	0.0000	Standard - Dynamic Wave
L-CT-98	2.0000	0.0000	0.0000	0.0000	0.6500	1.0000	0.0000	Standard - Dynamic Wave
L-CT-14	2.0000	0.0000	0.0000	0.0000	0.8500	1.0000	0.0000	Standard - Dynamic Wave
L-CT-7	2.0000	0.0000	0.0000	0.0000	0.8500	1.0000	0.0000	Standard - Dynamic Wave
L-CT-5	2.0000	0.0000	0.0000	0.0000	0.8500	1.0000	0.0000	Standard - Dynamic Wave

==========
| If there are messages about (sqrt(g*d)*dt/dx), or |

| the sqrt(wave celerity)*time step/conduit length |
| in the output file all it means is that the |
| program will lower the internal time step to |
| satisfy this condition (explicit condition). |
| You control the actual internal time step by |
| using the minimum courant time step factor in the |
| HYDRAULICS job control. The message put in words |
| states that the smallest conduit with the fastest |
| velocity will control the time step selection. |
| You have further control by using the modify |
| conduit option in the HYDRAULICS Job Control. |

Conduit Name	Courant Ratio	
L-CA-4	2.90	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CA-6	2.90	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CA-8	2.90	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CA-9	3.99	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CA-11	2.90	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CA-12	2.90	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CA-13	2.90	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CA-15	2.90	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CA-17	2.90	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CA-18	2.90	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CA-19	2.90	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CA-20	2.90	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CA-21	2.90	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CA-22	2.90	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CA-23	2.90	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CA-24	2.90	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CA-25	2.90	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CA-26	2.90	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CA-27	2.90	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CA-31	2.90	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CA-32	2.90	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CA-33	2.90	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CA-34	2.90	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CA-35	2.90	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CA-36	2.90	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CA-37	2.90	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CB-1	3.56	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CB-2	0.83	
L-CB-3	3.56	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CB-4	0.83	
L-CB-5	3.56	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CB-6	0.83	
L-CB-7	3.56	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CB-8	0.83	
L-CB-9	4.34	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CB-10	0.80	
L-CB-11	0.60	
L-CB-15	3.09	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CB-14	0.86	
L-CB-18	11.58	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CB-17	2.32	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CB-16	1.00	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CB-19	14.95	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CB-28	5.79	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CB-29	2.04	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CB-26	13.37	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CT-39	1.97	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CT-38	2.12	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CT-37	2.27	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CT-36	2.27	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CT-35	3.03	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CT-34	2.29	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CT-33	1.96	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CT-32	2.58	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CT-31	1.86	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CT-30	3.29	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CT-27a	7.57	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CT-27	1.89	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CT-26	3.24	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CT-25	2.16	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CT-24	6.49	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CT-23a	11.35	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CT-23	3.91	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CT-22	3.15	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CT-21	3.24	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CT-20	3.49	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CT-19	3.24	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CT-18	1.46	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CT-15	6.88	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CT-13	1.34	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CT-12	3.78	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CT-11a	7.57	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CT-11	2.52	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CT-10	2.27	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CT-9	1.62	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CT-8	2.52	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CT-3	0.86	
L-CT-1	1.99	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CT-97	1.96	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CT-98	1.96	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CP-1	1.49	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CP-2	0.84	
L-CP-3	1.73	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CP-6	1.43	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CP-5	1.49	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CP-4	5.35	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CQ-7	0.85	
L-CQ-8	1.28	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CQ-9	3.39	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CQ-10	1.64	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CR-5	1.16	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CR-6	3.59	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CS-1	0.92	
L-CS-2	0.79	
L-CN-1	0.37	
L-CN-2	0.72	
L-CN-3	0.57	
L-CN-4	0.45	
L-CN-5	0.38	
L-CN-6	0.57	
L-CN-7	0.26	
L-CN-8	0.65	
L-CT2-1	1.54	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CT2-2	0.70	
L-CU-2	1.67	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CU-3	0.54	
L-CO-1	0.75	
L-CO-5	0.49	
L-CO-10	1.26	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CR-1	0.90	
L-CR-3	0.49	

```
         L-CQ-1        1.21  ===> Warning ! (sqrt(wave celerity)*time step/conduit length)
         L-CQ-2        0.58
         L-CQ-5        0.60
         L-CR-8        0.84
        Link587        5.27  ===> Warning ! (sqrt(wave celerity)*time step/conduit length)
        Link588        2.70  ===> Warning ! (sqrt(wave celerity)*time step/conduit length)
        Link589        6.04  ===> Warning ! (sqrt(wave celerity)*time step/conduit length)
        Link590        0.35
        Link615        5.44  ===> Warning ! (sqrt(wave celerity)*time step/conduit length)
        Link616        5.44  ===> Warning ! (sqrt(wave celerity)*time step/conduit length)
        Link617        5.44  ===> Warning ! (sqrt(wave celerity)*time step/conduit length)
        Link618        5.44  ===> Warning ! (sqrt(wave celerity)*time step/conduit length)
        Link619        5.44  ===> Warning ! (sqrt(wave celerity)*time step/conduit length)
        Link620        5.44  ===> Warning ! (sqrt(wave celerity)*time step/conduit length)
        Link621        5.44  ===> Warning ! (sqrt(wave celerity)*time step/conduit length)
        Link622        4.86  ===> Warning ! (sqrt(wave celerity)*time step/conduit length)
        Link623        4.86  ===> Warning ! (sqrt(wave celerity)*time step/conduit length)
        Link624        4.86  ===> Warning ! (sqrt(wave celerity)*time step/conduit length)
        Link625        4.86  ===> Warning ! (sqrt(wave celerity)*time step/conduit length)
        Link626        4.86  ===> Warning ! (sqrt(wave celerity)*time step/conduit length)
        Link627        4.86  ===> Warning ! (sqrt(wave celerity)*time step/conduit length)
        Link628        4.86  ===> Warning ! (sqrt(wave celerity)*time step/conduit length)
        Link629        4.86  ===> Warning ! (sqrt(wave celerity)*time step/conduit length)
        Link630        4.86  ===> Warning ! (sqrt(wave celerity)*time step/conduit length)
        Link631        4.86  ===> Warning ! (sqrt(wave celerity)*time step/conduit length)
        Link632        4.86  ===> Warning ! (sqrt(wave celerity)*time step/conduit length)
        Link633        4.86  ===> Warning ! (sqrt(wave celerity)*time step/conduit length)
        Link634        4.86  ===> Warning ! (sqrt(wave celerity)*time step/conduit length)
        Link635        4.86  ===> Warning ! (sqrt(wave celerity)*time step/conduit length)
        Link636        4.86  ===> Warning ! (sqrt(wave celerity)*time step/conduit length)
        Link637        4.86  ===> Warning ! (sqrt(wave celerity)*time step/conduit length)
        L-CT-14        1.52  ===> Warning ! (sqrt(wave celerity)*time step/conduit length)
         L-CT-7        1.78  ===> Warning ! (sqrt(wave celerity)*time step/conduit length)
         L-CT-5        1.78  ===> Warning ! (sqrt(wave celerity)*time step/conduit length)
        L-CT-17        1.42  ===> Warning ! (sqrt(wave celerity)*time step/conduit length)
        L-CT-29        1.39  ===> Warning ! (sqrt(wave celerity)*time step/conduit length)
         L-CO-3        0.89
         L-RD-1        0.15
         L-RD-2        0.33
         L-RD-5        0.14
         L-RD-6        0.16
         L-RD-7        0.33
        Link649        0.36
         L-RD-3        2.99  ===> Warning ! (sqrt(wave celerity)*time step/conduit length)
         L-RD-4        0.27
        Link652        0.12
        Link653        0.15
        Link655        6.05  ===> Warning ! (sqrt(wave celerity)*time step/conduit length)
        Link656        0.39
        Link657        0.63
        Link658        1.85  ===> Warning ! (sqrt(wave celerity)*time step/conduit length)
        Link659        0.14
        Link661        0.83
        Link662        2.90  ===> Warning ! (sqrt(wave celerity)*time step/conduit length)
        Link663        2.90  ===> Warning ! (sqrt(wave celerity)*time step/conduit length)
        Link664        2.90  ===> Warning ! (sqrt(wave celerity)*time step/conduit length)
        Link665        0.75

*==================*
|  Conduit Volume  |
*==================*

Full pipe or full open conduit volume
Input full depth volume.............    6.7759E+06 cubic feet

===> Warning !! The upstream and downstream junctions for the following conduits
                have been reversed to correspond to the positive flow and decreasing
                slope convention.  A negative flow in the output thus means
                the flow was from your original upstream junction to your original
                downstream junction.  Any initial flow has been multiplied by -1.

                1.  Conduit #...Link589     has been changed.


*================================================*
|           Table E3a - Junction Data            |
*================================================*

Inp          Junction     Ground     Crown     Invert    Qinst  Initial  Interface
Num              Name  Elevation Elevation Elevation      cfs Depth-ft   Flow (%)
---  ---------------  --------- --------- ---------  -------- --------  ---------
  1           CT-11a   194.5000  194.5000   99.4800   0.0000   0.0000   100.0000
  2           CT-14a   194.5000  194.5000   99.6600   0.0000   0.0000   100.0000
  3           CT-23a   194.5000  194.5000  100.0200   0.0000   0.0000   100.0000
  4             CB-9   108.9900  108.9900  103.9900   0.0000   0.0000   100.0000
  5             CB-7   108.9900  108.9900  103.9900   0.0000   0.0000   100.0000
  6             CB-5   108.9900  108.9900  103.9900   0.0000   0.0000   100.0000
  7             CO-9   112.2200  112.2200  107.3400   0.0000   0.0000   100.0000
  8             CT-8   194.5000  194.5000   99.3000   0.0000   0.0000   100.0000
  9             CA-8   107.4900  107.4900  102.9900   0.0000   0.0000   100.0000
 10             CT-7   194.5000  194.5000   99.2500   0.0000   0.0000   100.0000
 11             CA-6   106.8900  106.8900  102.3900   0.0000   0.0000   100.0000
 12             CT-5   194.5000  194.5000   99.1800   0.0000   0.0000   100.0000
 13             CB-3   108.9900  108.9900  103.9900   0.0000   0.0000   100.0000
 14             CA-4   107.7200  107.7200  102.7200   0.0000   0.0000   100.0000
 15             CT-3   194.5000  194.5000   99.1100   0.0000   0.0000   100.0000
 16             CB-1   108.7900  108.7900  103.7900   0.0000   0.0000   100.0000
 17             CT-1   194.5000  194.5000   98.9300   0.0000   0.0000   100.0000
 18             CB-2   107.0300  107.0300  102.9200   0.0000   0.0000   100.0000
 19             CB-4   107.2500  107.2500  103.1100   0.0000   0.0000   100.0000
 20             CT-9   194.5000  194.5000   99.3700   0.0000   0.0000   100.0000
 21             CB-6   107.2500  107.2500  103.1400   0.0000   0.0000   100.0000
 22             CB-8   107.2500  107.2500  103.1700   0.0000   0.0000   100.0000
 23           CT-27A   194.5000  194.5000  100.2000   0.0000   0.0000   100.0000
 24            CA-37   107.7100  107.7100  102.2100   0.0000   0.0000   100.0000
 25            CT-39   194.5000  194.5000  101.7500   0.0000   0.0000   100.0000
 26            CT-38   194.5000  194.5000  101.2000   0.0000   0.0000   100.0000
 27            CT-37   106.5000  106.5000  100.6500   0.0000   0.0000   100.0000
 28            CA-36   106.7400  106.7400  102.2400   0.0000   0.0000   100.0000
 29            CB-26   125.5400  125.5400  101.5700   0.0000   0.0000   100.0000
 30            CB-29   126.5000  126.5000  121.6300   0.0000   0.0000   100.0000
 31            CB-28   127.5000  127.5000  122.0000   0.0000   0.0000   100.0000
 32            CA-35   106.9500  106.9500  102.4500   0.0000   0.0000   100.0000
 33            CT-36   194.5000  194.5000  100.6000   0.0000   0.0000   100.0000
 34            CT-35   194.5000  194.5000  100.5500   0.0000   0.0000   100.0000
 35            CB-18   113.8500  113.8500  102.0700   0.0000   0.0000   100.0000
 36            CA-34   106.8800  106.8800  102.3800   0.0000   0.0000   100.0000
 37            CT-34   194.5000  194.5000  100.5200   0.0000   0.0000   100.0000
 38            CA-33   106.6500  106.6500  102.1500   0.0000   0.0000   100.0000
 39            CT-33   106.4000  106.4000  100.4100   0.0000   0.0000   100.0000
 40            CA-32   106.9600  106.9600  102.4600   0.0000   0.0000   100.0000
 41            CT-32   194.5000  194.5000  100.4100   0.0000   0.0000   100.0000
 42            CT-31   194.5000  194.5000  100.3700   0.0000   0.0000   100.0000
 43            CA-31   107.0300  107.0300  102.5300   0.0000   0.0000   100.0000
 44            CT-30   194.5000  194.5000  100.3000   0.0000   0.0000   100.0000
 45            CT-29   194.5000  194.5000  100.2700   0.0000   0.0000   100.0000
 46            CA-27   107.3600  107.3600  102.8600   0.0000   0.0000   100.0000
 47            CT-27   194.5000  194.5000  100.1800   0.0000   0.0000   100.0000
```

48	CA-26	113.3700	113.3700	102.8700	0.0000	0.0000	100.0000
49	CT-26	194.5000	194.5000	100.1200	0.0000	0.0000	100.0000
50	CA-25	107.1700	107.1700	102.6700	0.0000	0.0000	100.0000
51	CT-25	194.5000	194.5000	100.0900	0.0000	0.0000	100.0000
52	CA-24	106.9200	106.9200	102.4200	0.0000	0.0000	100.0000
53	CT-24	194.5000	194.5000	100.0400	0.0000	0.0000	100.0000
54	CT-23	194.5000	194.5000	100.0100	0.0000	0.0000	100.0000
55	CA-23	107.0100	107.0100	102.5100	0.0000	0.0000	100.0000
56	CA-22	107.1800	107.1800	102.6800	0.0000	0.0000	100.0000
57	CT-22	194.5000	194.5000	99.9800	0.0000	0.0000	100.0000
58	CA-21	107.4000	107.4000	102.9000	0.0000	0.0000	100.0000
59	CT-21	194.5000	194.5000	99.9400	0.0000	0.0000	100.0000
60	CT-20	194.5000	194.5000	99.9100	0.0000	0.0000	100.0000
61	CA-20	107.6100	107.6100	103.1100	0.0000	0.0000	100.0000
62	CA-19	107.8100	107.8100	103.3100	0.0000	0.0000	100.0000
63	CT-19	194.5000	194.5000	99.8800	0.0000	0.0000	100.0000
64	CT-18	194.5000	194.5000	99.8400	0.0000	0.0000	100.0000
65	CA-18	108.0200	108.0200	103.5200	0.0000	0.0000	100.0000
66	CA-17	107.5600	107.5600	103.0600	0.0000	0.0000	100.0000
67	CT-17	194.5000	194.5000	99.7600	0.0000	0.0000	100.0000
68	CA-15	107.3300	107.3300	102.8300	0.0000	0.0000	100.0000
69	CT-15	107.2000	107.2000	99.6800	0.0000	0.0000	100.0000
70	CA-13	107.7500	107.7500	103.2500	0.0000	0.0000	100.0000
71	CT-13	194.5000	194.5000	99.5900	0.0000	0.0000	100.0000
72	CA-12	107.7100	107.7100	103.2100	0.0000	0.0000	100.0000
73	CT-12	194.5000	194.5000	99.5100	0.0000	0.0000	100.0000
74	CT-11	194.5000	194.5000	99.4600	0.0000	0.0000	100.0000
75	CA-11	107.4400	107.4400	102.9400	0.0000	0.0000	100.0000
76	CT-10	106.9200	106.9200	99.4200	0.0000	0.0000	100.0000
77	CT-98	194.5000	194.5000	98.8700	0.0000	0.0000	100.0000
78	CT-99	194.5000	194.5000	98.8100	0.0000	0.0000	100.0000
79	CB-10	107.7000	107.7000	103.7600	0.0000	0.0000	100.0000
80	CB-11	108.9900	108.9900	103.9900	0.0000	0.0000	100.0000
81	CB-15	109.0000	109.0000	103.9900	0.0000	0.0000	100.0000
82	CB-14	108.2900	108.2900	103.2300	0.0000	0.0000	100.0000
83	CB-16	113.8500	113.8500	103.0500	0.0000	0.0000	100.0000
84	CB-17	109.1100	109.1100	104.1100	0.0000	0.0000	100.0000
85	X-43	109.5000	109.5000	102.2700	0.0000	0.0000	100.0000
86	X-42	109.5000	109.5000	102.2700	0.0000	0.0000	100.0000
87	X-41	109.5000	109.5000	102.2700	0.0000	0.0000	100.0000
88	X-40	109.5000	109.5000	102.2700	0.0000	0.0000	100.0000
89	CB-19	113.8500	113.8500	101.0700	0.0000	0.0000	100.0000
90	CP-4	111.7800	111.7800	107.9500	0.0000	0.0000	100.0000
91	CP-6	112.3000	112.3000	109.0000	0.0000	0.0000	100.0000
92	CQ-10	110.6500	110.6500	108.5500	0.0000	0.0000	100.0000
93	CS-2	112.1000	112.1000	107.7000	0.0000	0.0000	100.0000
94	X-39	109.5000	109.5000	102.1600	0.0000	0.0000	100.0000
95	X-38	109.5000	109.5000	102.1600	0.0000	0.0000	100.0000
96	X-37	109.5000	109.5000	102.1600	0.0000	0.0000	100.0000
97	X-36	109.5000	109.5000	102.1600	0.0000	0.0000	100.0000
98	X-35	109.5000	109.5000	103.2200	0.0000	0.0000	100.0000
99	X-34	109.5000	109.5000	103.2200	0.0000	0.0000	100.0000
100	X-33	109.5000	109.5000	103.2200	0.0000	0.0000	100.0000
101	X-32	109.5000	109.5000	103.2200	0.0000	0.0000	100.0000
102	X-31	108.5000	108.5000	104.4500	0.0000	0.0000	100.0000
103	X-30	108.5000	108.5000	104.4500	0.0000	0.0000	100.0000
104	X-29	108.5000	108.5000	104.4500	0.0000	0.0000	100.0000
105	X-28	109.5000	109.5000	104.4500	0.0000	0.0000	100.0000
106	X-27	109.5000	109.5000	105.6300	0.0000	0.0000	100.0000
107	X-26	109.5000	109.5000	105.6300	0.0000	0.0000	100.0000
108	X-25	109.5000	109.5000	105.6300	0.0000	0.0000	100.0000
109	X-24	109.5000	109.5000	106.7700	0.0000	0.0000	100.0000
110	X-23	109.5000	109.5000	106.7700	0.0000	0.0000	100.0000
111	X-22	109.5000	109.5000	106.7700	0.0000	0.0000	100.0000
112	X-21	109.5000	109.5000	106.7700	0.0000	0.0000	100.0000
113	CO-1	114.3000	114.3000	110.7000	0.0000	0.0000	100.0000
114	CO-5	114.0400	114.0400	108.5000	0.0000	0.0000	100.0000
115	CN-1	111.1900	111.1900	107.9400	0.0000	0.0000	100.0000
116	CN-2	110.6900	110.6900	105.6600	0.0000	0.0000	100.0000
117	CN-3	110.6100	110.6100	105.1600	0.0000	0.0000	100.0000
118	CN-4	110.2800	110.2800	104.5200	0.0000	0.0000	100.0000
119	CN-5	110.0000	110.0000	103.7200	0.0000	0.0000	100.0000
120	CN-6	110.0000	110.0000	102.7600	0.0000	0.0000	100.0000
121	CN-7	109.6000	109.6000	101.1200	0.0000	0.0000	100.0000
122	CN-8	107.5300	107.5300	99.5600	0.0000	0.0000	100.0000
123	6863.3	112.5500	112.5500	98.4500	0.0000	0.0000	100.0000
124	CR-8	108.8300	108.8300	105.7700	0.0000	0.0000	100.0000
125	CR-6	110.4500	110.4500	103.9400	0.0000	0.0000	100.0000
126	CR-5	110.5900	110.5900	104.5600	0.0000	0.0000	100.0000
127	CR-3	109.9000	109.9000	106.3800	0.0000	0.0000	100.0000
128	CR-1	110.4000	110.4000	107.5000	0.0000	0.0000	100.0000
129	CQ-9	111.3700	111.3700	103.5000	0.0000	0.0000	100.0000
130	CQ-8	111.3900	111.3900	103.9800	0.0000	0.0000	100.0000
131	CQ-7	111.5800	111.5800	105.1200	0.0000	0.0000	100.0000
132	CQ-5	111.8800	111.8800	106.0200	0.0000	0.0000	100.0000
133	CQ-3	111.6100	111.6100	107.3800	0.0000	0.0000	100.0000
134	CP-1	112.1100	112.1100	108.7500	0.0000	0.0000	100.0000
135	CO-10	112.4800	112.4800	109.0000	0.0000	0.0000	100.0000
136	CQ-1	112.1600	112.1600	108.2200	0.0000	0.0000	100.0000
137	CS-1	112.1000	112.1000	108.5000	0.0000	0.0000	100.0000
138	CT2-1	108.8200	108.8200	105.8400	0.0000	0.0000	100.0000
139	CT2-2	109.3300	109.3300	105.4600	0.0000	0.0000	100.0000
140	6832	112.8400	112.8400	98.7700	0.0000	0.0000	100.0000
141	CP-5	112.0000	112.0000	108.2800	0.0000	0.0000	100.0000
142	CP-3	112.1600	112.1600	107.3500	0.0000	0.0000	100.0000
143	CP-2	112.5600	112.5600	107.9500	0.0000	0.0000	100.0000
144	CU-3	108.1100	108.1100	104.3500	0.0000	0.0000	100.0000
145	CU-2	108.5400	108.5400	105.1200	0.0000	0.0000	100.0000
146	7253.3	112.5600	112.5600	99.4700	0.0000	0.0000	100.0000
147	7185	112.5500	112.5500	98.4500	0.0000	0.0000	100.0000
148	6325	112.5500	112.5500	97.2000	0.0000	0.0000	100.0000
149	CO-3	114.2000	114.2000	109.5900	0.0000	0.0000	100.0000
150	RD-1	109.5000	109.5000	105.4400	0.0000	0.0000	100.0000
151	RD-2	109.5000	109.5000	104.2960	0.0000	0.0000	100.0000
152	RD-5	109.5000	109.5000	103.1150	0.0000	0.0000	100.0000
153	RD-6	109.5000	109.5000	101.8900	0.0000	0.0000	100.0000
154	RD-7	109.5000	109.5000	100.8360	0.0000	0.0000	100.0000
155	RD-8	109.5000	109.5000	100.9360	0.0000	0.0000	100.0000
156	RD-3	109.5000	109.5000	103.7880	0.0000	0.0000	100.0000
157	RD-4	109.5000	109.5000	103.7280	0.0000	0.0000	100.0000
158	RD-9	109.5000	109.5000	102.2880	0.0000	0.0000	100.0000
159	RD-10	109.5000	109.5000	103.3750	0.0000	0.0000	100.0000
160	7216.8	112.5500	112.5500	99.4400	0.0000	0.0000	100.0000
161	CS-3	110.5000	110.5000	109.5000	0.0000	0.0000	100.0000
162	CS-4	110.5000	110.5000	109.4500	0.0000	0.0000	100.0000
163	CS-5	110.5000	110.5000	108.7500	0.0000	0.0000	100.0000
164	CS-6	110.5000	110.5000	108.6500	0.0000	0.0000	100.0000
165	CA-1	109.2000	109.2000	103.1200	0.0000	0.0000	100.0000
166	CA-2	108.3100	108.3100	103.1200	0.0000	0.0000	100.0000
167	CA-3	108.0200	108.0200	13.1200	0.0000	0.0000	100.0000
168	CN-9	107.5300	107.5300	98.9300	0.0000	0.0000	100.0000
169	7185(ml)	112.5500	112.5500	98.4500	0.0000	0.0000	100.0000

Table E3b - Junction Data

Inp Num	Junction Name	X Coord.	Y Coord.	Type of Manhole	Type of Inlet	Maximum Capacity	Pavement Shape	Pavement Slope
1	CT-11a	3.054000E+06	13.88840E+06	F	Normal		0	0.0000
2	CT-14a	3.055500E+06	13.88840E+06	F	Normal		0	0.0000
3	CT-23a	3.060000E+06	13.88840E+06	F	Normal		0	0.0000
4	CB-9	3.057000E+06	13.88720E+06	F	Normal		0	0.0000
5	CB-7	3.055500E+06	13.88720E+06	F	Normal		0	0.0000
6	CB-5	3.054000E+06	13.88720E+06	F	Normal		0	0.0000
7	CO-9	3.037000E+06	13.88840E+06	F	Normal		0	0.0000
8	CT-8	3.052000E+06	13.88840E+06	F	Normal		0	0.0000
9	CA-8	3.051500E+06	13.88860E+06	F	Normal		0	0.0000
10	CT-7	3.051500E+06	13.88840E+06	F	Normal		0	0.0000
11	CA-6	3.051000E+06	13.88860E+06	F	Normal		0	0.0000
12	CT-5	3.051000E+06	13.88840E+06	F	Normal		0	0.0000
13	CB-3	3.052000E+06	13.88720E+06	F	Normal		0	0.0000
14	CA-4	3.050500E+06	13.88860E+06	F	Normal		0	0.0000
15	CT-3	3.050500E+06	13.88840E+06	F	Normal		0	0.0000
16	CB-1	3.050500E+06	13.88720E+06	F	Normal		0	0.0000
17	CT-1	3.050000E+06	13.88840E+06	F	Normal		0	0.0000
18	CB-2	3.050500E+06	13.88740E+06	F	Normal		0	0.0000
19	CB-4	3.052000E+06	13.88740E+06	F	Normal		0	0.0000
20	CT-9	3.052500E+06	13.88840E+06	F	Normal		0	0.0000
21	CB-6	3.054000E+06	13.88740E+06	F	Normal		0	0.0000
22	CB-8	3.055500E+06	13.88740E+06	F	Normal		0	0.0000
23	CT-27A	3.062500E+06	13.88840E+06	F	Normal		0	0.0000
24	CA-37	3.067999E+06	13.88877E+06	F	Normal		0	0.0000
25	CT-39	3.068000E+06	13.88840E+06	F	Normal		0	0.0000
26	CT-38	3.067500E+06	13.88840E+06	F	Normal		0	0.0000
27	CT-37	3.067000E+06	13.88840E+06	F	Normal		0	0.0000
28	CA-36	3.067000E+06	13.88881E+06	F	Normal		0	0.0000
29	CB-26	3.067000E+06	13.88793E+06	F	Normal		0	0.0000
30	CB-29	3.067000E+06	13.88763E+06	F	Normal		0	0.0000
31	CB-28	3.067000E+06	13.88722E+06	F	Normal		0	0.0000
32	CA-35	3.066500E+06	13.88883E+06	F	Normal		0	0.0000
33	CT-36	3.066500E+06	13.88840E+06	F	Normal		0	0.0000
34	CT-35	3.066000E+06	13.88840E+06	F	Normal		0	0.0000
35	CB-18	3.063500E+06	13.88820E+06	F	Normal		0	0.0000
36	CA-34	3.065500E+06	13.88860E+06	F	Normal		0	0.0000
37	CT-34	3.065500E+06	13.88840E+06	F	Normal		0	0.0000
38	CA-33	3.065000E+06	13.88860E+06	F	Normal		0	0.0000
39	CT-33	3.065000E+06	13.88840E+06	F	Normal		0	0.0000
40	CA-32	3.064500E+06	13.88860E+06	F	Normal		0	0.0000
41	CT-32	3.064500E+06	13.88840E+06	F	Normal		0	0.0000
42	CT-31	3.064000E+06	13.88840E+06	F	Normal		0	0.0000
43	CA-31	3.063500E+06	13.88860E+06	F	Normal		0	0.0000
44	CT-30	3.063500E+06	13.88840E+06	F	Normal		0	0.0000
45	CT-29	3.063000E+06	13.88840E+06	F	Normal		0	0.0000
46	CA-27	3.062000E+06	13.88860E+06	F	Normal		0	0.0000
47	CT-27	3.062000E+06	13.88840E+06	F	Normal		0	0.0000
48	CA-26	3.061500E+06	13.88860E+06	F	Normal		0	0.0000
49	CT-26	3.061500E+06	13.88840E+06	F	Normal		0	0.0000
50	CA-25	3.061000E+06	13.88860E+06	F	Normal		0	0.0000
51	CT-25	3.061000E+06	13.88840E+06	F	Normal		0	0.0000
52	CA-24	3.060500E+06	13.88860E+06	F	Normal		0	0.0000
53	CT-24	3.060500E+06	13.88840E+06	F	Normal		0	0.0000
54	CT-23	3.059500E+06	13.88840E+06	F	Normal		0	0.0000
55	CA-23	3.059500E+06	13.88860E+06	F	Normal		0	0.0000
56	CA-22	3.059000E+06	13.88860E+06	F	Normal		0	0.0000
57	CT-22	3.059000E+06	13.88840E+06	F	Normal		0	0.0000
58	CA-21	3.058500E+06	13.88860E+06	F	Normal		0	0.0000
59	CT-21	3.058500E+06	13.88840E+06	F	Normal		0	0.0000
60	CT-20	3.058000E+06	13.88840E+06	F	Normal		0	0.0000
61	CA-20	3.058000E+06	13.88860E+06	F	Normal		0	0.0000
62	CA-19	3.057500E+06	13.88860E+06	F	Normal		0	0.0000
63	CT-19	3.057500E+06	13.88840E+06	F	Normal		0	0.0000
64	CT-18	3.057000E+06	13.88840E+06	F	Normal		0	0.0000
65	CA-18	3.057000E+06	13.88860E+06	F	Normal		0	0.0000
66	CA-17	3.056500E+06	13.88860E+06	F	Normal		0	0.0000
67	CT-17	3.056500E+06	13.88840E+06	F	Normal		0	0.0000
68	CA-15	3.056000E+06	13.88860E+06	F	Normal		0	0.0000
69	CT-15	3.056000E+06	13.88840E+06	F	Normal		0	0.0000
70	CA-13	3.055000E+06	13.88860E+06	F	Normal		0	0.0000
71	CT-13	3.055000E+06	13.88840E+06	F	Normal		0	0.0000
72	CA-12	3.054500E+06	13.88860E+06	F	Normal		0	0.0000
73	CT-12	3.054500E+06	13.88840E+06	F	Normal		0	0.0000
74	CT-11	3.053500E+06	13.88840E+06	F	Normal		0	0.0000
75	CA-11	3.053500E+06	13.88860E+06	F	Normal		0	0.0000
76	CT-10	3.053000E+06	13.88840E+06	F	Normal		0	0.0000
77	CT-98	3.049500E+06	13.88840E+06	F	Normal		0	0.0000
78	CT-99	3.048800E+06	13.88840E+06	F	Normal		0	0.0000
79	CB-10	3.057000E+06	13.88740E+06	F	Normal		0	0.0000
80	CB-11	3.060000E+06	13.88720E+06	F	Normal		0	0.0000
81	CB-15	3.062500E+06	13.88720E+06	F	Normal		0	0.0000
82	CB-14	3.062500E+06	13.88740E+06	F	Normal		0	0.0000
83	CB-16	3.064000E+06	13.88753E+06	F	Normal		0	0.0000
84	CB-17	3.064000E+06	13.88720E+06	F	Normal		0	0.0000
85	X-43	3.050512E+06	13.88653E+06	F	Normal		0	0.0000
86	X-42	3.050103E+06	13.88658E+06	F	Normal		0	0.0000
87	X-41	3.049623E+06	13.88660E+06	F	Normal		0	0.0000
88	X-40	3.049215E+06	13.88649E+06	F	Normal		0	0.0000
89	CB-19	3.064000E+06	13.88820E+06	F	Normal		0	0.0000
90	CP-4	3.039500E+06	13.88840E+06	F	Normal		0	0.0000
91	CP-6	3.040500E+06	13.88840E+06	F	Normal		0	0.0000
92	CQ-10	3.044000E+06	13.88840E+06	F	Normal		0	0.0000
93	CS-2	3.039500E+06	13.88750E+06	F	Normal		0	0.0000
94	X-39	3.047841E+06	13.88642E+06	F	Normal		0	0.0000
95	X-38	3.047593E+06	13.88657E+06	F	Normal		0	0.0000
96	X-37	3.047140E+06	13.88659E+06	F	Normal		0	0.0000
97	X-36	3.046827E+06	13.88630E+06	F	Normal		0	0.0000
98	X-35	3.046336E+06	13.88638E+06	F	Normal		0	0.0000
99	X-34	3.046127E+06	13.88657E+06	F	Normal		0	0.0000
100	X-33	3.045750E+06	13.88659E+06	F	Normal		0	0.0000
101	X-32	3.045274E+06	13.88644E+06	F	Normal		0	0.0000
102	X-31	3.044845E+06	13.88627E+06	F	Normal		0	0.0000
103	X-30	3.044607E+06	13.88652E+06	F	Normal		0	0.0000
104	X-29	3.044127E+06	13.88658E+06	F	Normal		0	0.0000
105	X-28	3.043654E+06	13.88634E+06	F	Normal		0	0.0000
106	X-27	3.041019E+06	13.88631E+06	F	Normal		0	0.0000
107	X-26	3.040469E+06	13.88641E+06	F	Normal		0	0.0000
108	X-25	3.039903E+06	13.88637E+06	F	Normal		0	0.0000
109	X-24	3.037726E+06	13.88659E+06	F	Normal		0	0.0000
110	X-23	3.037151E+06	13.88678E+06	F	Normal		0	0.0000
111	X-22	3.036498E+06	13.88668E+06	F	Normal		0	0.0000
112	X-21	3.035961E+06	13.88637E+06	F	Normal		0	0.0000
113	CO-1	3.035500E+06	13.88840E+06	F	Normal		0	0.0000
114	CO-5	3.036500E+06	13.88840E+06	F	Normal		0	0.0000
115	CN-1	3.035500E+06	13.88800E+06	F	Normal		0	0.0000
116	CN-2	3.037000E+06	13.88800E+06	F	Normal		0	0.0000
117	CN-3	3.038000E+06	13.88800E+06	F	Normal		0	0.0000
118	CN-4	3.039500E+06	13.88800E+06	F	Normal		0	0.0000
119	CN-5	3.040500E+06	13.88800E+06	F	Normal		0	0.0000
120	CN-6	3.042500E+06	13.88800E+06	F	Normal		0	0.0000
121	CN-7	3.043500E+06	13.88800E+06	F	Normal		0	0.0000
122	CN-8	3.046000E+06	13.88800E+06	F	Normal		0	0.0000
123	6863.3	3.048300E+06	13.88800E+06	F	Normal		0	0.0000
124	CR-8	3.046500E+06	13.88840E+06	F	Normal		0	0.0000
125	CR-6	3.046000E+06	13.88840E+06	F	Normal		0	0.0000

126	CR-5	3.045500E+06	13.88840E+06	F	Normal	0	0.0000	
127	CR-3	3.045000E+06	13.88840E+06	F	Normal	0	0.0000	
128	CR-1	3.044500E+06	13.88840E+06	F	Normal	0	0.0000	
129	CQ-9	3.043500E+06	13.88840E+06	F	Normal	0	0.0000	
130	CQ-8	3.043000E+06	13.88840E+06	F	Normal	0	0.0000	
131	CQ-7	3.042500E+06	13.88840E+06	F	Normal	0	0.0000	
132	CQ-5	3.042000E+06	13.88840E+06	F	Normal	0	0.0000	
133	CQ-3	3.041500E+06	13.88840E+06	F	Normal	0	0.0000	
134	CP-1	3.038000E+06	13.88840E+06	F	Normal	0	0.0000	
135	CO-10	3.037500E+06	13.88840E+06	F	Normal	0	0.0000	
136	CQ-1	3.041000E+06	13.88840E+06	F	Normal	0	0.0000	
137	CS-1	3.039000E+06	13.88750E+06	F	Normal	0	0.0000	
138	CT2-1	3.047000E+06	13.88840E+06	F	Normal	0	0.0000	
139	CT2-2	3.047577E+06	13.88840E+06	F	Normal	0	0.0000	
140	6832	3.048300E+06	13.88839E+06	F	Normal	0	0.0000	
141	CP-5	3.040000E+06	13.88840E+06	F	Normal	0	0.0000	
142	CP-3	3.039000E+06	13.88840E+06	F	Normal	0	0.0000	
143	CP-2	3.038500E+06	13.88840E+06	F	Normal	0	0.0000	
144	CU-3	3.048600E+06	13.88860E+06	F	Normal	0	0.0000	
145	CU-2	3.048900E+06	13.88860E+06	F	Normal	0	0.0000	
146	7253.3	3.048300E+06	13.88500E+06	F	Normal	0	0.0000	
147	7185	3.048300E+06	13.88605E+06	F	Normal	0	0.0000	
148	6325	3.048800E+06	13.88969E+06	F	Normal	0	0.0000	
149	CO-8	3.036000E+06	13.88840E+06	F	Normal	0	0.0000	
150	RD-1	3.036776E+06	13.88594E+06	F	Normal	0	0.0000	
151	RD-2	3.040307E+06	13.88594E+06	F	Normal	0	0.0000	
152	RD-5	3.044249E+06	13.88594E+06	F	Normal	0	0.0000	
153	RD-6	3.045839E+06	13.88594E+06	F	Normal	0	0.0000	
154	RD-7	3.047409E+06	13.88594E+06	F	Normal	0	0.0000	
155	RD-8	3.049864E+06	13.88603E+06	F	Normal	0	0.0000	
156	RD-3	3.042077E+06	13.88594E+06	F	Normal	0	0.0000	
157	RD-4	3.043112E+06	13.88594E+06	F	Normal	0	0.0000	
158	RD-9	3.051403E+06	13.88602E+06	F	Normal	0	0.0000	
159	RD-10	3.053420E+06	13.88602E+06	F	Normal	0	0.0000	
160	7216.8	3.048296E+06	13.88551E+06	F	Normal	0	0.0000	
161	CS-3	3.045862E+06	13.88707E+06	F	Normal	0	0.0000	
162	CS-4	3.047026E+06	13.88706E+06	F	Normal	0	0.0000	
163	CS-5	3.047595E+06	13.88706E+06	F	Normal	0	0.0000	
164	CS-6	3.049036E+06	13.88700E+06	F	Normal	0	0.0000	
165	CA-1	3.049236E+06	13.88876E+06	F	Normal	0	0.0000	
166	CA-2	3.049625E+06	13.88878E+06	F	Normal	0	0.0000	
167	CA-3	3.049888E+06	13.88861E+06	F	Normal	0	0.0000	
168	CN-9	3.047659E+06	13.88801E+06	F	Normal	0	0.0000	
169	7185(ml)	3.048298E+06	13.88706E+06	F	Normal	0	0.0000	

Table E4 - Conduit Connectivity

Input Number	Conduit Name	Upstream Node	Downstream Node	Upstream Elevation	Downstream Elevation	
1	L-CA-4	CA-4	CT-3	102.7200	101.4400	No Design
2	L-CA-6	CA-6	CT-5	102.3900	101.5100	No Design
3	L-CA-8	CA-8	CT-7	102.9900	101.5800	No Design
4	L-CA-9	CO-9	CN-2	107.3400	107.1600	No Design
5	L-CA-11	CA-11	CT-11	102.9400	101.2800	No Design
6	L-CA-12	CA-12	CT-12	103.2100	101.8400	No Design
7	L-CA-13	CA-13	CT-13	103.2500	101.9200	No Design
8	L-CA-15	CA-15	CT-15	102.8300	102.0100	No Design
9	L-CA-17	CA-17	CT-17	103.0600	102.0900	No Design
10	L-CA-18	CA-18	CT-18	103.5200	102.1700	No Design
11	L-CA-19	CA-19	CT-19	103.3100	102.2100	No Design
12	L-CA-20	CA-20	CT-20	103.1100	102.2400	No Design
13	L-CA-21	CA-21	CT-21	102.9000	102.2700	No Design
14	L-CA-22	CA-22	CT-22	102.6800	102.3100	No Design
15	L-CA-23	CA-23	CT-23	102.5100	102.0100	No Design
16	L-CA-24	CA-24	CT-24	102.4200	102.0400	No Design
17	L-CA-25	CA-25	CT-25	102.6700	102.0900	No Design
18	L-CA-26	CA-26	CT-26	102.8700	102.4500	No Design
19	L-CA-27	CA-27	CT-27	102.8600	102.5100	No Design
20	L-CA-31	CA-31	CT-30	102.5300	102.3000	No Design
21	L-CA-32	CA-32	CT-32	102.4600	102.1100	No Design
22	L-CA-33	CA-33	CT-33	102.1500	101.9700	No Design
23	L-CA-34	CA-34	CT-34	102.3800	102.0200	No Design
24	L-CA-35	CA-35	CT-36	102.4500	102.1000	No Design
25	L-CA-36	CA-36	CT-37	102.2400	102.0900	No Design
26	L-CA-37	CA-37	CT-39	102.2100	101.7500	No Design
27	L-CB-1	CB-1	CB-2	103.7900	103.4200	No Design
28	L-CB-2	CB-2	CT-3	102.9200	101.1200	No Design
29	L-CB-3	CB-3	CB-4	103.9900	103.6100	No Design
30	L-CB-4	CB-4	CT-8	103.1100	101.1000	No Design
31	L-CB-5	CB-5	CB-6	103.9900	103.6000	No Design
32	L-CB-6	CB-6	CT-11a	103.1400	101.2800	No Design
33	L-CB-7	CB-7	CB-8	103.9900	103.6700	No Design
34	L-CB-8	CB-8	CT-14a	103.1700	101.4600	No Design
35	L-CB-9	CB-9	CB-10	103.9900	103.7600	No Design
36	L-CB-10	CB-10	CT-18	103.7600	101.6400	No Design
37	L-CB-11	CB-11	CT-23a	103.9900	102.3500	No Design
38	L-CB-15	CB-15	CB-14	103.9900	103.7300	No Design
39	L-CB-14	CB-14	CT-27A	103.2300	102.0000	No Design
40	L-CB-18	CB-18	CT-30	102.0700	102.0000	No Design
41	L-CB-17	CB-17	CB-16	104.1100	103.5500	No Design
42	L-CB-16	CB-16	CB-19	103.0500	101.5700	No Design
43	L-CB-19	CB-19	CT-31	101.0700	101.0000	No Design
44	L-CB-28	CB-28	CB-29	122.0000	121.6300	No Design
45	L-CB-29	CB-29	CB-26	121.6300	119.1600	No Design
46	L-CB-26	CB-26	CT-37	101.5700	101.5000	No Design
47	L-CT-39	CT-39	CT-38	101.7500	101.7000	No Design
48	L-CT-38	CT-38	CT-37	101.2000	101.1500	No Design
49	L-CT-37	CT-37	CT-36	100.6500	100.6000	No Design
50	L-CT-36	CT-36	CT-35	100.6000	100.5500	No Design
51	L-CT-35	CT-35	CT-34	100.5500	100.5200	No Design
52	L-CT-34	CT-34	CT-33	100.5200	100.4100	No Design
53	L-CT-33	CT-33	CT-32	100.4100	100.4100	No Design
54	L-CT-32	CT-32	CT-31	100.4100	100.3700	No Design
55	L-CT-31	CT-31	CT-30	100.3700	100.3000	No Design
56	L-CT-30	CT-30	CT-29	100.3000	100.2700	No Design
57	L-CT-27a	CT-27A	CT-27	100.2000	100.1800	No Design
58	L-CT-27	CT-27	CT-26	100.1800	100.1200	No Design
59	L-CT-26	CT-26	CT-25	100.1200	100.0900	No Design
60	L-CT-25	CT-25	CT-24	100.0900	100.0400	No Design
61	L-CT-24	CT-24	CT-23a	100.0400	100.0200	No Design
62	L-CT-23a	CT-23a	CT-23	100.0200	100.0100	No Design
63	L-CT-23	CT-23	CT-22	100.0100	99.9800	No Design
64	L-CT-22	CT-22	CT-21	99.9800	99.9400	No Design
65	L-CT-21	CT-21	CT-20	99.9400	99.9100	No Design
66	L-CT-20	CT-20	CT-19	99.9100	99.8800	No Design
67	L-CT-19	CT-19	CT-18	99.8800	99.8400	No Design
68	L-CT-18	CT-18	CT-17	99.8400	99.7600	No Design
69	L-CT-15	CT-15	CT-14a	99.6800	99.6600	No Design
70	L-CT-13	CT-13	CT-12	99.5900	99.5100	No Design
71	L-CT-12	CT-12	CT-11a	99.5100	99.4800	No Design
72	L-CT-11a	CT-11a	CT-11	99.4800	99.4600	No Design
73	L-CT-11	CT-11	CT-10	99.4600	99.4200	No Design
74	L-CT-10	CT-10	CT-9	99.4200	99.3700	No Design
75	L-CT-9	CT-9	CT-8	99.3700	99.3000	No Design

76	L-CT-8	CT-8	CT-7	99.3000	99.2500	No Design
77	L-CT-3	CT-3	CT-1	99.1100	99.0200	No Design
78	L-CT-1	CT-1	CT-98	98.9300	98.8700	No Design
79	L-CT-97	CT-98	CT-99	98.8700	98.8100	No Design
80	L-CT-98	CT-99	6863.3	98.8100	98.4500	No Design
81	L-CP-1	CP-1	CP-2	108.7500	108.4500	No Design
82	L-CP-2	CP-2	CP-3	107.9500	107.3500	No Design
83	L-CP-3	CP-3	CP-4	107.3500	107.0500	No Design
84	L-CP-6	CP-6	CP-5	109.0000	108.2800	No Design
85	L-CP-5	CP-5	CP-4	108.2800	107.5500	No Design
86	L-CP-4	CP-4	CN-4	107.0500	106.5200	No Design
87	L-CQ-7	CQ-7	CQ-8	105.1200	104.4800	No Design
88	L-CQ-8	CQ-8	CQ-9	103.9800	103.5000	No Design
89	L-CQ-9	CQ-9	CN-7	103.5000	103.1200	No Design
90	L-CQ-10	CQ-10	CQ-9	108.5500	108.2700	No Design
91	L-CR-5	CR-5	CR-6	104.5600	103.9400	No Design
92	L-CR-6	CR-6	CN-8	103.9400	102.0600	No Design
93	L-CS-1	CS-1	CS-2	108.5000	107.7000	No Design
94	L-CS-2	CS-2	CN-4	107.7000	105.7000	No Design
95	L-CN-1	CN-1	CN-2	107.9400	107.1600	No Design
96	L-CN-2	CN-2	CN-3	105.6600	105.1600	No Design
97	L-CN-3	CN-3	CN-4	105.1600	104.5200	No Design
98	L-CN-4	CN-4	CN-5	104.5200	103.7200	No Design
99	L-CN-5	CN-5	CN-6	103.7200	102.7600	No Design
100	L-CN-6	CN-6	CN-7	102.7600	102.1200	No Design
101	L-CN-7	CN-7	CN-8	101.1200	99.5600	No Design
102	L-CN-8	CN-8	CN-9	99.5600	98.9300	No Design
103	L-CT2-1	CT2-1	CT2-2	105.8400	105.4600	No Design
104	L-CT2-2	CT2-2	6832	105.4600	104.6600	No Design
105	L-CU-2	CU-2	CU-3	105.1200	104.8500	No Design
106	L-CU-3	CU-3	6832	104.3500	103.4600	No Design
107	L-CO-1	CO-1	CO-3	110.7000	110.0900	No Design
108	L-CO-5	CO-5	CO-9	108.5000	107.3400	No Design
109	L-CO-10	CO-10	CO-9	109.0000	108.3400	No Design
110	L-CR-1	CR-1	CR-3	107.5000	106.8800	No Design
111	L-CR-3	CR-3	CR-5	106.3800	105.0600	No Design
112	L-CQ-1	CQ-1	CQ-3	108.2200	107.8800	No Design
113	L-CQ-2	CQ-3	CQ-5	107.3800	106.5200	No Design
114	L-CQ-5	CQ-5	CQ-7	106.0200	105.1200	No Design
115	L-CR-8	CR-8	CR-6	105.7700	104.9400	No Design
116	Link587	7253.3	7216.8	99.4700	99.4400	No Design
117	Link588	7185	7185(ml)	98.4500	98.4500	No Design
118	Link589	6832	6863.3	98.7700	98.4500	No Design
119	Link590	6832	6325	98.7700	97.8300	No Design
120	Link615	X-21	RD-1	106.7700	106.4400	No Design
121	Link616	X-22	RD-1	106.7700	106.4400	No Design
122	Link617	X-23	RD-1	106.7700	106.4400	No Design
123	Link618	X-24	RD-1	106.7700	106.4400	No Design
124	Link619	X-25	RD-2	105.6300	105.3000	No Design
125	Link620	X-26	RD-2	105.6300	105.3000	No Design
126	Link621	X-27	RD-2	105.6300	105.3000	No Design
127	Link622	X-28	RD-5	104.4500	104.1200	No Design
128	Link623	X-29	RD-5	104.4500	104.1200	No Design
129	Link624	X-30	RD-5	104.4500	104.1200	No Design
130	Link625	X-31	RD-5	104.4500	104.1200	No Design
131	Link626	X-32	RD-6	103.2200	102.8900	No Design
132	Link627	X-33	RD-6	103.2200	102.8900	No Design
133	Link628	X-34	RD-6	103.2200	102.8900	No Design
134	Link629	X-35	RD-6	103.2200	102.8900	No Design
135	Link630	X-36	RD-7	102.1600	101.8300	No Design
136	Link631	X-37	RD-7	102.1600	101.8300	No Design
137	Link632	X-38	RD-7	102.1600	101.8300	No Design
138	Link633	X-39	RD-7	102.1600	101.8300	No Design
139	Link634	X-43	RD-8	102.2700	101.9400	No Design
140	Link635	X-42	RD-8	102.2700	101.9400	No Design
141	Link636	X-41	RD-8	102.2700	101.9400	No Design
142	Link637	X-40	RD-8	102.2700	101.9400	No Design
143	L-CT-14	CT-14a	CT-13	99.6600	99.5900	No Design
144	L-CT-7	CT-7	CT-5	99.2500	99.1800	No Design
145	L-CT-5	CT-5	CT-3	99.1800	99.1100	No Design
146	L-CT-17	CT-17	CT-15	99.7600	99.6800	No Design
147	L-CT-29	CT-29	CT-27A	100.2700	100.2000	No Design
148	L-CO-3	CO-3	CO-5	109.5900	109.0000	No Design
149	L-RD-1	RD-1	RD-2	105.4400	104.2960	No Design
150	L-RD-2	RD-2	RD-3	104.2960	103.7880	No Design
151	L-RD-5	RD-5	RD-6	103.1150	101.8900	No Design
152	L-RD-6	RD-6	RD-7	101.8900	100.8360	No Design
153	L-RD-7	RD-7	7185	100.8360	100.3260	No Design
154	Link649	RD-8	7185	100.9360	100.3000	No Design
155	L-RD-3	RD-3	RD-4	103.7880	103.7280	No Design
156	L-RD-4	RD-4	RD-5	103.7280	103.1150	No Design
157	Link652	RD-9	RD-8	102.2880	100.9360	No Design
158	Link653	RD-10	RD-9	103.3750	102.2880	No Design
159	Link655	7216.8	7185	99.4400	98.4500	No Design
160	Link656	CS-5	7185(ml)	108.7500	108.5000	No Design
161	Link657	CS-6	7185(ml)	108.6500	108.5000	No Design
162	Link658	CS-3	CS-4	109.5000	109.4500	No Design
163	Link659	CS-4	CS-5	109.4500	108.7500	No Design
164	Link661	CN-9	6863.3	98.9300	98.4500	No Design
165	Link662	CA-1	CT-98	103.1200	101.2000	No Design
166	Link663	CA-2	CT-98	103.1200	101.2000	No Design
167	Link664	CA-3	CT-98	103.1200	101.2000	No Design
168	Link665	7185(ml)	6863.3	98.4500	98.4500	No Design

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|Storage Junction Data|
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STORAGE JUNCTION NUMBER OR NAME	JUNCTION TYPE	MAXIMUM OR CONSTANT SURFACE AREA (FT2)	PEAK OR CONSTANT VOLUME (CUBIC FEET)	CROWN ELEVATION (FT)	DEPTH STARTS FROM
CB-9	Stage/Area	17119.0800	75510.0177	108.9900	Spill Crest
CB-7	Stage/Area	17119.0800	75510.0177	108.9900	Spill Crest
CB-5	Stage/Area	17119.0800	75510.0177	108.9900	Spill Crest
CO-9	Stage/Area	17119.0800	73455.7281	112.2200	Spill Crest
CA-8	Stage/Area	17119.0800	66950.4777	107.4900	Spill Crest
CA-6	Stage/Area	17119.0800	66950.4777	106.8900	Spill Crest
CB-3	Stage/Area	17119.0800	75510.0177	108.9900	Spill Crest
CA-4	Stage/Area	17119.0800	75510.0177	107.7200	Spill Crest
CB-1	Stage/Area	17119.0800	75510.0177	108.7900	Spill Crest
CA-37	Stage/Area	17119.0800	84069.5577	107.7100	Spill Crest
CA-36	Stage/Area	17119.0800	66950.4777	106.7400	Spill Crest
CA-35	Stage/Area	17119.0800	66950.4777	106.9500	Spill Crest
CA-34	Stage/Area	17119.0800	66950.4777	106.8800	Spill Crest
CA-33	Stage/Area	17119.0800	66950.4777	106.6500	Spill Crest
CA-32	Stage/Area	17119.0800	66950.4777	106.9600	Spill Crest
CA-31	Stage/Area	17119.0800	66950.4777	107.0300	Spill Crest
CA-27	Stage/Area	17119.0800	66950.4777	107.3600	Spill Crest
CA-26	Stage/Area	17119.0800	169664.9577	113.3700	Spill Crest
CA-25	Stage/Area	17119.0800	66950.4777	107.1700	Spill Crest
CA-24	Stage/Area	17119.0800	66950.4777	106.9200	Spill Crest
CA-23	Stage/Area	17119.0800	66950.4777	107.0100	Spill Crest
CA-22	Stage/Area	17119.0800	66950.4777	107.1800	Spill Crest
CA-21	Stage/Area	17119.0800	66950.4777	107.4000	Spill Crest
CA-20	Stage/Area	17119.0800	66950.4777	107.6100	Spill Crest
CA-19	Stage/Area	17119.0800	66950.4777	107.8100	Spill Crest

CA-18	Stage/Area	17119.0800	66950.4777	108.0200	Spill Crest
CA-17	Stage/Area	17119.0800	66950.4777	107.5600	Spill Crest
CA-15	Stage/Area	17119.0800	66950.4777	107.3300	Spill Crest
CA-13	Stage/Area	17119.0800	66950.4777	107.7500	Spill Crest
CA-12	Stage/Area	17119.0800	66950.4777	107.7100	Spill Crest
CA-11	Stage/Area	17119.0800	66950.4777	107.4400	Spill Crest
CB-11	Stage/Area	17119.0800	75510.0177	108.9900	Spill Crest
CB-15	Stage/Area	17119.0800	75681.2085	109.0000	Spill Crest
CB-17	Stage/Area	17119.0800	75510.0177	109.1100	Spill Crest
CP-4	Stage/Area	17119.0800	70887.8661	111.7800	Spill Crest
CP-6	Stage/Area	17119.0800	46407.5817	112.3000	Spill Crest
CQ-10	Stage/Area	17119.0800	25864.6857	110.6500	Spill Crest
CO-1	Stage/Area	17119.0800	51543.3057	114.3000	Spill Crest
CO-5	Stage/Area	17119.0800	84754.3209	114.0400	Spill Crest
CR-8	Stage/Area	17119.0800	42299.0025	108.8300	Spill Crest
CR-6	Stage/Area	17119.0800	101359.8285	110.4500	Spill Crest
CR-5	Stage/Area	17119.0800	93142.6701	110.5900	Spill Crest
CR-3	Stage/Area	17119.0800	50173.7793	109.9000	Spill Crest
CR-1	Stage/Area	17119.0800	39559.9497	110.4000	Spill Crest
CQ-9	Stage/Area	17119.0800	124641.7773	111.3700	Spill Crest
CQ-8	Stage/Area	17119.0800	116767.0005	111.3900	Spill Crest
CQ-7	Stage/Area	17119.0800	100503.8745	111.5800	Spill Crest
CQ-5	Stage/Area	17119.0800	90232.4265	111.8800	Spill Crest
CQ-3	Stage/Area	17119.0800	62328.3261	111.6100	Spill Crest
CP-1	Stage/Area	17119.0800	47434.7265	112.1100	Spill Crest
CO-10	Stage/Area	17119.0800	49489.0161	112.4800	Spill Crest
CQ-1	Stage/Area	17119.0800	57363.7929	112.1600	Spill Crest
CT2-1	Stage/Area	17119.0800	40929.4761	108.8200	Spill Crest
CT2-2	Stage/Area	17119.0800	56165.4573	109.3300	Spill Crest
CP-5	Stage/Area	17119.0800	53597.5953	112.0000	Spill Crest
CP-3	Stage/Area	17119.0800	72257.3925	112.1600	Spill Crest
CP-2	Stage/Area	17119.0800	68833.5765	112.5600	Spill Crest
CU-3	Stage/Area	17119.0800	54282.3585	108.1100	Spill Crest
CU-2	Stage/Area	17119.0800	48461.8713	108.5400	Spill Crest
CO-3	Stage/Area	17119.0800	68833.5765	114.2000	Spill Crest

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| Variable storage data for node | CB-9
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	103.9900	0.0000	4.3560	0.0000	0.0001	0.0000
2	104.0150	0.0250	150.8265	1.5068	0.0035	0.0000
3	104.0400	0.0500	297.2970	7.0058	0.0068	0.0002
4	104.0650	0.0750	443.7675	16.2082	0.0102	0.0004
5	104.0900	0.1000	590.2380	29.0898	0.0135	0.0007
6	104.1150	0.1250	736.7085	45.6428	0.0169	0.0010
7	104.1400	0.1500	883.1790	65.8638	0.0203	0.0015
8	104.1650	0.1750	1029.6495	89.7507	0.0236	0.0021
9	104.1900	0.2000	1176.1200	117.3026	0.0270	0.0027
10	104.2150	0.2250	1475.5950	150.3783	0.0339	0.0035
11	104.2400	0.2500	1775.0700	190.9540	0.0408	0.0044
12	104.2650	0.2750	2074.5450	239.0256	0.0476	0.0055
13	104.2900	0.3000	2374.0200	294.5906	0.0545	0.0068
14	104.3150	0.3250	2673.4950	357.6475	0.0614	0.0082
15	104.3400	0.3500	2972.9700	428.1952	0.0683	0.0098
16	104.3650	0.3750	3272.4450	506.2330	0.0751	0.0116
17	104.3900	0.4000	3571.9200	591.7602	0.0820	0.0136
18	104.4025	0.4125	3773.3850	637.6626	0.0866	0.0146
19	104.4150	0.4250	3974.8500	686.0836	0.0912	0.0158
20	104.4275	0.4375	4176.3150	737.0232	0.0959	0.0169
21	104.4400	0.4500	4377.7800	790.4814	0.1005	0.0181
22	104.4525	0.4625	4579.2450	846.4581	0.1051	0.0194
23	104.4650	0.4750	4780.7100	904.9533	0.1098	0.0208
24	104.4775	0.4875	4982.1750	965.9670	0.1144	0.0222
25	104.4900	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	104.5025	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	104.5150	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	104.5275	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	104.5400	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	104.5525	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	104.5650	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	104.5775	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	104.5900	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	104.6025	0.6125	7900.6950	1761.8875	0.1814	0.0404
35	104.6150	0.6250	8265.5100	1862.9177	0.1897	0.0428
36	104.6275	0.6375	8630.3250	1968.5084	0.1981	0.0452
37	104.6400	0.6500	8995.1400	2078.6597	0.2065	0.0477
38	104.6525	0.6625	9359.9550	2193.3715	0.2149	0.0504
39	104.6650	0.6750	9724.7700	2312.6438	0.2233	0.0531
40	104.6775	0.6875	10089.5850	2436.4765	0.2316	0.0559
41	104.6900	0.7000	10454.4000	2564.8697	0.2400	0.0589
42	104.7150	0.7250	11287.4850	2836.5767	0.2591	0.0651
43	104.7400	0.7500	12120.5700	3129.1156	0.2782	0.0718
44	104.7650	0.7750	12953.6550	3442.4857	0.2974	0.0790
45	104.7900	0.8000	13786.7400	3776.6866	0.3165	0.0867
46	104.8150	0.8250	14619.8250	4131.7177	0.3356	0.0949
47	104.8400	0.8500	15452.9100	4507.5788	0.3548	0.1035
48	104.8650	0.8750	16285.9950	4904.2696	0.3739	0.1126
49	104.8900	0.9000	17119.0800	5321.7897	0.3930	0.1222
50	108.9900	5.0000	17119.0800	75510.0177	0.3930	1.7335

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| Variable storage data for node | CB-7
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	103.9900	0.0000	4.3560	0.0000	0.0001	0.0000
2	104.0150	0.0250	150.8265	1.5068	0.0035	0.0000
3	104.0400	0.0500	297.2970	7.0058	0.0068	0.0002
4	104.0650	0.0750	443.7675	16.2082	0.0102	0.0004
5	104.0900	0.1000	590.2380	29.0898	0.0135	0.0007
6	104.1150	0.1250	736.7085	45.6428	0.0169	0.0010
7	104.1400	0.1500	883.1790	65.8638	0.0203	0.0015
8	104.1650	0.1750	1029.6495	89.7507	0.0236	0.0021
9	104.1900	0.2000	1176.1200	117.3026	0.0270	0.0027
10	104.2150	0.2250	1475.5950	150.3783	0.0339	0.0035
11	104.2400	0.2500	1775.0700	190.9540	0.0408	0.0044
12	104.2650	0.2750	2074.5450	239.0256	0.0476	0.0055
13	104.2900	0.3000	2374.0200	294.5906	0.0545	0.0068
14	104.3150	0.3250	2673.4950	357.6475	0.0614	0.0082
15	104.3400	0.3500	2972.9700	428.1952	0.0683	0.0098
16	104.3650	0.3750	3272.4450	506.2330	0.0751	0.0116
17	104.3900	0.4000	3571.9200	591.7602	0.0820	0.0136
18	104.4025	0.4125	3773.3850	637.6626	0.0866	0.0146
19	104.4150	0.4250	3974.8500	686.0836	0.0912	0.0158
20	104.4275	0.4375	4176.3150	737.0232	0.0959	0.0169
21	104.4400	0.4500	4377.7800	790.4814	0.1005	0.0181
22	104.4525	0.4625	4579.2450	846.4581	0.1051	0.0194
23	104.4650	0.4750	4780.7100	904.9533	0.1098	0.0208
24	104.4775	0.4875	4982.1750	965.9670	0.1144	0.0222
25	104.4900	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	104.5025	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	104.5150	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	104.5275	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	104.5400	0.5500	6359.7600	1318.0528	0.1460	0.0303

30	104.5525	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	104.5650	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	104.5775	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	104.5900	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	104.6025	0.6125	7900.6950	1761.8875	0.1814	0.0404
35	104.6150	0.6250	8265.5100	1862.9177	0.1897	0.0428
36	104.6275	0.6375	8630.3250	1968.5084	0.1981	0.0452
37	104.6400	0.6500	8995.1400	2078.6597	0.2065	0.0477
38	104.6525	0.6625	9359.9550	2193.3715	0.2149	0.0504
39	104.6650	0.6750	9724.7700	2312.6438	0.2233	0.0531
40	104.6775	0.6875	10089.5850	2436.4765	0.2316	0.0559
41	104.6900	0.7000	10454.4000	2564.8697	0.2400	0.0589
42	104.7150	0.7250	11287.4850	2836.5767	0.2591	0.0651
43	104.7400	0.7500	12120.5700	3129.1156	0.2782	0.0718
44	104.7650	0.7750	12953.6550	3442.4857	0.2974	0.0790
45	104.7900	0.8000	13786.7400	3776.6866	0.3165	0.0867
46	104.8150	0.8250	14619.8250	4131.7177	0.3356	0.0949
47	104.8400	0.8500	15452.9100	4507.5788	0.3548	0.1035
48	104.8650	0.8750	16285.9950	4904.2696	0.3739	0.1126
49	104.8900	0.9000	17119.0800	5321.7897	0.3930	0.1222
50	108.9900	5.0000	17119.0800	75510.0177	0.3930	1.7335

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| Variable storage data for node | CB-5
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	103.9900	0.0000	4.3560	0.0000	0.0001	0.0000
2	104.0150	0.0250	150.8265	1.5068	0.0035	0.0000
3	104.0400	0.0500	297.2970	7.0058	0.0068	0.0002
4	104.0650	0.0750	443.7675	16.2082	0.0102	0.0004
5	104.0900	0.1000	590.2380	29.0898	0.0135	0.0007
6	104.1150	0.1250	736.7085	45.6428	0.0169	0.0010
7	104.1400	0.1500	883.1790	65.8638	0.0203	0.0015
8	104.1650	0.1750	1029.6495	89.7507	0.0236	0.0021
9	104.1900	0.2000	1176.1200	117.3026	0.0270	0.0027
10	104.2150	0.2250	1475.5950	150.3783	0.0339	0.0035
11	104.2400	0.2500	1775.0700	190.9540	0.0408	0.0044
12	104.2650	0.2750	2074.5450	239.0256	0.0476	0.0055
13	104.2900	0.3000	2374.0200	294.5906	0.0545	0.0068
14	104.3150	0.3250	2673.4950	357.6475	0.0614	0.0082
15	104.3400	0.3500	2972.9700	428.1952	0.0683	0.0098
16	104.3650	0.3750	3272.4450	506.2330	0.0751	0.0116
17	104.3900	0.4000	3571.9200	591.7602	0.0820	0.0136
18	104.4025	0.4125	3773.3850	637.6626	0.0866	0.0146
19	104.4150	0.4250	3974.8500	686.0836	0.0912	0.0158
20	104.4275	0.4375	4176.3150	737.0232	0.0959	0.0169
21	104.4400	0.4500	4377.7800	790.4814	0.1005	0.0181
22	104.4525	0.4625	4579.2450	846.4581	0.1051	0.0194
23	104.4650	0.4750	4780.7100	904.9533	0.1098	0.0208
24	104.4775	0.4875	4982.1750	965.9670	0.1144	0.0222
25	104.4900	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	104.5025	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	104.5150	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	104.5275	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	104.5400	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	104.5525	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	104.5650	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	104.5775	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	104.5900	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	104.6025	0.6125	7900.6950	1761.8875	0.1814	0.0404
35	104.6150	0.6250	8265.5100	1862.9177	0.1897	0.0428
36	104.6275	0.6375	8630.3250	1968.5084	0.1981	0.0452
37	104.6400	0.6500	8995.1400	2078.6597	0.2065	0.0477
38	104.6525	0.6625	9359.9550	2193.3715	0.2149	0.0504
39	104.6650	0.6750	9724.7700	2312.6438	0.2233	0.0531
40	104.6775	0.6875	10089.5850	2436.4765	0.2316	0.0559
41	104.6900	0.7000	10454.4000	2564.8697	0.2400	0.0589
42	104.7150	0.7250	11287.4850	2836.5767	0.2591	0.0651
43	104.7400	0.7500	12120.5700	3129.1156	0.2782	0.0718
44	104.7650	0.7750	12953.6550	3442.4857	0.2974	0.0790
45	104.7900	0.8000	13786.7400	3776.6866	0.3165	0.0867
46	104.8150	0.8250	14619.8250	4131.7177	0.3356	0.0949
47	104.8400	0.8500	15452.9100	4507.5788	0.3548	0.1035
48	104.8650	0.8750	16285.9950	4904.2696	0.3739	0.1126
49	104.8900	0.9000	17119.0800	5321.7897	0.3930	0.1222
50	108.9900	5.0000	17119.0800	75510.0177	0.3930	1.7335

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| Variable storage data for node | CO-9
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	107.3400	0.0000	4.3560	0.0000	0.0001	0.0000
2	107.3650	0.0250	150.8265	1.5068	0.0035	0.0000
3	107.3900	0.0500	297.2970	7.0058	0.0068	0.0002
4	107.4150	0.0750	443.7675	16.2082	0.0102	0.0004
5	107.4400	0.1000	590.2380	29.0898	0.0135	0.0007
6	107.4650	0.1250	736.7085	45.6428	0.0169	0.0010
7	107.4900	0.1500	883.1790	65.8638	0.0203	0.0015
8	107.5150	0.1750	1029.6495	89.7507	0.0236	0.0021
9	107.5400	0.2000	1176.1200	117.3026	0.0270	0.0027
10	107.5650	0.2250	1475.5950	150.3783	0.0339	0.0035
11	107.5900	0.2500	1775.0700	190.9540	0.0408	0.0044
12	107.6150	0.2750	2074.5450	239.0256	0.0476	0.0055
13	107.6400	0.3000	2374.0200	294.5906	0.0545	0.0068
14	107.6650	0.3250	2673.4950	357.6475	0.0614	0.0082
15	107.6900	0.3500	2972.9700	428.1952	0.0683	0.0098
16	107.7150	0.3750	3272.4450	506.2330	0.0751	0.0116
17	107.7400	0.4000	3571.9200	591.7602	0.0820	0.0136
18	107.7525	0.4125	3773.3850	637.6626	0.0866	0.0146
19	107.7650	0.4250	3974.8500	686.0836	0.0912	0.0158
20	107.7775	0.4375	4176.3150	737.0232	0.0959	0.0169
21	107.7900	0.4500	4377.7800	790.4814	0.1005	0.0181
22	107.8025	0.4625	4579.2450	846.4581	0.1051	0.0194
23	107.8150	0.4750	4780.7100	904.9533	0.1098	0.0208
24	107.8275	0.4875	4982.1750	965.9670	0.1144	0.0222
25	107.8400	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	107.8525	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	107.8650	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	107.8775	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	107.8900	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	107.9025	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	107.9150	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	107.9275	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	107.9400	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	107.9525	0.6125	7900.6950	1761.8875	0.1814	0.0404
35	107.9650	0.6250	8265.5100	1862.9177	0.1897	0.0428
36	107.9775	0.6375	8630.3250	1968.5084	0.1981	0.0452
37	107.9900	0.6500	8995.1400	2078.6597	0.2065	0.0477
38	108.0025	0.6625	9359.9550	2193.3715	0.2149	0.0504
39	108.0150	0.6750	9724.7700	2312.6438	0.2233	0.0531
40	108.0275	0.6875	10089.5850	2436.4765	0.2316	0.0559
41	108.0400	0.7000	10454.4000	2564.8697	0.2400	0.0589
42	108.0650	0.7250	11287.4850	2836.5767	0.2591	0.0651
43	108.0900	0.7500	12120.5700	3129.1156	0.2782	0.0718

44	108.1150	0.7750	12953.6550	3442.4857	0.2974	0.0790
45	108.1400	0.8000	13786.7400	3776.6866	0.3165	0.0867
46	108.1650	0.8250	14619.8250	4131.7177	0.3356	0.0949
47	108.1900	0.8500	15452.9100	4507.5788	0.3548	0.1035
48	108.2150	0.8750	16285.9950	4904.2696	0.3739	0.1126
49	108.2400	0.9000	17119.0800	5321.7897	0.3930	0.1222
50	112.2200	4.8800	17119.0800	73455.7281	0.3930	1.6863

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| Variable storage data for node | CA-8
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	102.9900	0.0000	4.3560	0.0000	0.0001	0.0000
2	103.0150	0.0250	150.8265	1.5068	0.0035	0.0000
3	103.0400	0.0500	297.2970	7.0058	0.0068	0.0002
4	103.0650	0.0750	443.7675	16.2082	0.0102	0.0004
5	103.0900	0.1000	590.2380	29.0898	0.0135	0.0007
6	103.1150	0.1250	736.7085	45.6428	0.0169	0.0010
7	103.1400	0.1500	883.1790	65.8638	0.0203	0.0015
8	103.1650	0.1750	1029.6495	89.7507	0.0236	0.0021
9	103.1900	0.2000	1176.1200	117.3026	0.0270	0.0027
10	103.2150	0.2250	1475.5950	150.3783	0.0339	0.0035
11	103.2400	0.2500	1775.0700	190.9540	0.0408	0.0044
12	103.2650	0.2750	2074.5450	239.0256	0.0476	0.0055
13	103.2900	0.3000	2374.0200	294.5906	0.0545	0.0068
14	103.3150	0.3250	2673.4950	357.6475	0.0614	0.0082
15	103.3400	0.3500	2972.9700	428.1952	0.0683	0.0098
16	103.3650	0.3750	3272.4450	506.2330	0.0751	0.0116
17	103.3900	0.4000	3571.9200	591.7602	0.0820	0.0136
18	103.4025	0.4125	3773.3850	637.6626	0.0866	0.0146
19	103.4150	0.4250	3974.8500	686.0836	0.0912	0.0158
20	103.4275	0.4375	4176.3150	737.0232	0.0959	0.0169
21	103.4400	0.4500	4377.7800	790.4814	0.1005	0.0181
22	103.4525	0.4625	4579.2450	846.4581	0.1051	0.0194
23	103.4650	0.4750	4780.7100	904.9533	0.1098	0.0208
24	103.4775	0.4875	4982.1750	965.9670	0.1144	0.0222
25	103.4900	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	103.5025	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	103.5150	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	103.5275	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	103.5400	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	103.5525	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	103.5650	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	103.5775	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	103.5900	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	103.6025	0.6125	7900.6950	1761.8875	0.1814	0.0404
35	103.6150	0.6250	8265.5100	1862.9177	0.1897	0.0428
36	103.6275	0.6375	8630.3250	1968.5084	0.1981	0.0452
37	103.6400	0.6500	8995.1400	2078.6597	0.2065	0.0477
38	103.6525	0.6625	9359.9550	2193.3715	0.2149	0.0504
39	103.6650	0.6750	9724.7700	2312.6438	0.2233	0.0531
40	103.6775	0.6875	10089.5850	2436.4765	0.2316	0.0559
41	103.6900	0.7000	10454.4000	2564.8697	0.2400	0.0589
42	103.7150	0.7250	11287.4850	2836.5767	0.2591	0.0651
43	103.7400	0.7500	12120.5700	3129.1156	0.2782	0.0718
44	103.7650	0.7750	12953.6550	3442.4857	0.2974	0.0790
45	103.7900	0.8000	13786.7400	3776.6866	0.3165	0.0867
46	103.8150	0.8250	14619.8250	4131.7177	0.3356	0.0949
47	103.8400	0.8500	15452.9100	4507.5788	0.3548	0.1035
48	103.8650	0.8750	16285.9950	4904.2696	0.3739	0.1126
49	103.8900	0.9000	17119.0800	5321.7897	0.3930	0.1222
50	107.4900	4.5000	17119.0800	66950.4777	0.3930	1.5370

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| Variable storage data for node | CA-6
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	102.3900	0.0000	4.3560	0.0000	0.0001	0.0000
2	102.4150	0.0250	150.8265	1.5068	0.0035	0.0000
3	102.4400	0.0500	297.2970	7.0058	0.0068	0.0002
4	102.4650	0.0750	443.7675	16.2082	0.0102	0.0004
5	102.4900	0.1000	590.2380	29.0898	0.0135	0.0007
6	102.5150	0.1250	736.7085	45.6428	0.0169	0.0010
7	102.5400	0.1500	883.1790	65.8638	0.0203	0.0015
8	102.5650	0.1750	1029.6495	89.7507	0.0236	0.0021
9	102.5900	0.2000	1176.1200	117.3026	0.0270	0.0027
10	102.6150	0.2250	1475.5950	150.3783	0.0339	0.0035
11	102.6400	0.2500	1775.0700	190.9540	0.0408	0.0044
12	102.6650	0.2750	2074.5450	239.0256	0.0476	0.0055
13	102.6900	0.3000	2374.0200	294.5906	0.0545	0.0068
14	102.7150	0.3250	2673.4950	357.6475	0.0614	0.0082
15	102.7400	0.3500	2972.9700	428.1952	0.0683	0.0098
16	102.7650	0.3750	3272.4450	506.2330	0.0751	0.0116
17	102.7900	0.4000	3571.9200	591.7602	0.0820	0.0136
18	102.8025	0.4125	3773.3850	637.6626	0.0866	0.0146
19	102.8150	0.4250	3974.8500	686.0836	0.0912	0.0158
20	102.8275	0.4375	4176.3150	737.0232	0.0959	0.0169
21	102.8400	0.4500	4377.7800	790.4814	0.1005	0.0181
22	102.8525	0.4625	4579.2450	846.4581	0.1051	0.0194
23	102.8650	0.4750	4780.7100	904.9533	0.1098	0.0208
24	102.8775	0.4875	4982.1750	965.9670	0.1144	0.0222
25	102.8900	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	102.9025	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	102.9150	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	102.9275	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	102.9400	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	102.9525	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	102.9650	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	102.9775	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	102.9900	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	103.0025	0.6125	7900.6950	1761.8875	0.1814	0.0404
35	103.0150	0.6250	8265.5100	1862.9177	0.1897	0.0428
36	103.0275	0.6375	8630.3250	1968.5084	0.1981	0.0452
37	103.0400	0.6500	8995.1400	2078.6597	0.2065	0.0477
38	103.0525	0.6625	9359.9550	2193.3715	0.2149	0.0504
39	103.0650	0.6750	9724.7700	2312.6438	0.2233	0.0531
40	103.0775	0.6875	10089.5850	2436.4765	0.2316	0.0559
41	103.0900	0.7000	10454.4000	2564.8697	0.2400	0.0589
42	103.1150	0.7250	11287.4850	2836.5767	0.2591	0.0651
43	103.1400	0.7500	12120.5700	3129.1156	0.2782	0.0718
44	103.1650	0.7750	12953.6550	3442.4857	0.2974	0.0790
45	103.1900	0.8000	13786.7400	3776.6866	0.3165	0.0867
46	103.2150	0.8250	14619.8250	4131.7177	0.3356	0.0949
47	103.2400	0.8500	15452.9100	4507.5788	0.3548	0.1035
48	103.2650	0.8750	16285.9950	4904.2696	0.3739	0.1126
49	103.2900	0.9000	17119.0800	5321.7897	0.3930	0.1222
50	106.8900	4.5000	17119.0800	66950.4777	0.3930	1.5370

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| Variable storage data for node | CB-3
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft

1	103.9900	0.0000	4.3560	0.0000	0.0001	0.0000
2	104.0150	0.0250	150.8265	1.5068	0.0035	0.0000
3	104.0400	0.0500	297.2970	7.0058	0.0068	0.0002
4	104.0650	0.0750	443.7675	16.2082	0.0102	0.0004
5	104.0900	0.1000	590.2380	29.0898	0.0135	0.0007
6	104.1150	0.1250	736.7085	45.6428	0.0169	0.0010
7	104.1400	0.1500	883.1790	65.8638	0.0203	0.0015
8	104.1650	0.1750	1029.6495	89.7507	0.0236	0.0021
9	104.1900	0.2000	1176.1200	117.3026	0.0270	0.0027
10	104.2150	0.2250	1475.5950	150.3783	0.0339	0.0035
11	104.2400	0.2500	1775.0700	190.9540	0.0408	0.0044
12	104.2650	0.2750	2074.5450	239.0256	0.0476	0.0055
13	104.2900	0.3000	2374.0200	294.5906	0.0545	0.0068
14	104.3150	0.3250	2673.4950	357.6475	0.0614	0.0082
15	104.3400	0.3500	2972.9700	428.1952	0.0683	0.0098
16	104.3650	0.3750	3272.4450	506.2330	0.0751	0.0116
17	104.3900	0.4000	3571.9200	591.7602	0.0820	0.0136
18	104.4025	0.4125	3773.3850	637.6626	0.0866	0.0146
19	104.4150	0.4250	3974.8500	686.0836	0.0912	0.0158
20	104.4275	0.4375	4176.3150	737.0232	0.0959	0.0169
21	104.4400	0.4500	4377.7800	790.4814	0.1005	0.0181
22	104.4525	0.4625	4579.2450	846.4581	0.1051	0.0194
23	104.4650	0.4750	4780.7100	904.9533	0.1098	0.0208
24	104.4775	0.4875	4982.1750	965.9670	0.1144	0.0222
25	104.4900	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	104.5025	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	104.5150	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	104.5275	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	104.5400	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	104.5525	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	104.5650	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	104.5775	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	104.5900	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	104.6025	0.6125	7900.6950	1761.8875	0.1814	0.0404
35	104.6150	0.6250	8265.5100	1862.9177	0.1897	0.0428
36	104.6275	0.6375	8630.3250	1968.5084	0.1981	0.0452
37	104.6400	0.6500	8995.1400	2078.6597	0.2065	0.0477
38	104.6525	0.6625	9359.9550	2193.3715	0.2149	0.0504
39	104.6650	0.6750	9724.7700	2312.6438	0.2233	0.0531
40	104.6775	0.6875	10089.5850	2436.4765	0.2316	0.0559
41	104.6900	0.7000	10454.4000	2564.8697	0.2400	0.0589
42	104.7150	0.7250	11287.4850	2836.5767	0.2591	0.0651
43	104.7400	0.7500	12120.5700	3129.1156	0.2782	0.0718
44	104.7650	0.7750	12953.6550	3442.4857	0.2974	0.0790
45	104.7900	0.8000	13786.7400	3776.6866	0.3165	0.0867
46	104.8150	0.8250	14619.8250	4131.7177	0.3356	0.0949
47	104.8400	0.8500	15452.9100	4507.5788	0.3548	0.1035
48	104.8650	0.8750	16285.9950	4904.2696	0.3739	0.1126
49	104.8900	0.9000	17119.0800	5321.7897	0.3930	0.1222
50	108.9900	5.0000	17119.0800	75510.0177	0.3930	1.7335

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| Variable storage data for node | CA-4
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	102.7200	0.0000	4.3560	0.0000	0.0001	0.0000
2	102.7450	0.0250	150.8265	1.5068	0.0035	0.0000
3	102.7700	0.0500	297.2970	7.0058	0.0068	0.0002
4	102.7950	0.0750	443.7675	16.2082	0.0102	0.0004
5	102.8200	0.1000	590.2380	29.0898	0.0135	0.0007
6	102.8450	0.1250	736.7085	45.6428	0.0169	0.0010
7	102.8700	0.1500	883.1790	65.8638	0.0203	0.0015
8	102.8950	0.1750	1029.6495	89.7507	0.0236	0.0021
9	102.9200	0.2000	1176.1200	117.3026	0.0270	0.0027
10	102.9450	0.2250	1475.5950	150.3783	0.0339	0.0035
11	102.9700	0.2500	1775.0700	190.9540	0.0408	0.0044
12	102.9950	0.2750	2074.5450	239.0256	0.0476	0.0055
13	103.0200	0.3000	2374.0200	294.5906	0.0545	0.0068
14	103.0450	0.3250	2673.4950	357.6475	0.0614	0.0082
15	103.0700	0.3500	2972.9700	428.1952	0.0683	0.0098
16	103.0950	0.3750	3272.4450	506.2330	0.0751	0.0116
17	103.1200	0.4000	3571.9200	591.7602	0.0820	0.0136
18	103.1325	0.4125	3773.3850	637.6626	0.0866	0.0146
19	103.1450	0.4250	3974.8500	686.0836	0.0912	0.0158
20	103.1575	0.4375	4176.3150	737.0232	0.0959	0.0169
21	103.1700	0.4500	4377.7800	790.4814	0.1005	0.0181
22	103.1825	0.4625	4579.2450	846.4581	0.1051	0.0194
23	103.1950	0.4750	4780.7100	904.9533	0.1098	0.0208
24	103.2075	0.4875	4982.1750	965.9670	0.1144	0.0222
25	103.2200	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	103.2325	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	103.2450	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	103.2575	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	103.2700	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	103.2825	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	103.2950	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	103.3075	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	103.3200	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	103.3325	0.6125	7900.6950	1761.8875	0.1814	0.0404
35	103.3450	0.6250	8265.5100	1862.9177	0.1897	0.0428
36	103.3575	0.6375	8630.3250	1968.5084	0.1981	0.0452
37	103.3700	0.6500	8995.1400	2078.6597	0.2065	0.0477
38	103.3825	0.6625	9359.9550	2193.3715	0.2149	0.0504
39	103.3950	0.6750	9724.7700	2312.6438	0.2233	0.0531
40	103.4075	0.6875	10089.5850	2436.4765	0.2316	0.0559
41	103.4200	0.7000	10454.4000	2564.8697	0.2400	0.0589
42	103.4450	0.7250	11287.4850	2836.5767	0.2591	0.0651
43	103.4700	0.7500	12120.5700	3129.1156	0.2782	0.0718
44	103.4950	0.7750	12953.6550	3442.4857	0.2974	0.0790
45	103.5200	0.8000	13786.7400	3776.6866	0.3165	0.0867
46	103.5450	0.8250	14619.8250	4131.7177	0.3356	0.0949
47	103.5700	0.8500	15452.9100	4507.5788	0.3548	0.1035
48	103.5950	0.8750	16285.9950	4904.2696	0.3739	0.1126
49	103.6200	0.9000	17119.0800	5321.7897	0.3930	0.1222
50	107.7200	5.0000	17119.0800	75510.0177	0.3930	1.7335

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| Variable storage data for node | CB-1
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	103.7900	0.0000	4.3560	0.0000	0.0001	0.0000
2	103.8150	0.0250	150.8265	1.5068	0.0035	0.0000
3	103.8400	0.0500	297.2970	7.0058	0.0068	0.0002
4	103.8650	0.0750	443.7675	16.2082	0.0102	0.0004
5	103.8900	0.1000	590.2380	29.0898	0.0135	0.0007
6	103.9150	0.1250	736.7085	45.6428	0.0169	0.0010
7	103.9400	0.1500	883.1790	65.8638	0.0203	0.0015
8	103.9650	0.1750	1029.6495	89.7507	0.0236	0.0021
9	103.9900	0.2000	1176.1200	117.3026	0.0270	0.0027
10	104.0150	0.2250	1475.5950	150.3783	0.0339	0.0035
11	104.0400	0.2500	1775.0700	190.9540	0.0408	0.0044
12	104.0650	0.2750	2074.5450	239.0256	0.0476	0.0055
13	104.0900	0.3000	2374.0200	294.5906	0.0545	0.0068
14	104.1150	0.3250	2673.4950	357.6475	0.0614	0.0082

15	104.1400	0.3500	2972.9700	428.1952	0.0683	0.0098
16	104.1650	0.3750	3272.4450	506.2330	0.0751	0.0116
17	104.1900	0.4000	3571.9200	591.7602	0.0820	0.0136
18	104.2025	0.4125	3773.3850	637.6626	0.0866	0.0146
19	104.2150	0.4250	3974.8500	686.0836	0.0912	0.0158
20	104.2275	0.4375	4176.3150	737.0232	0.0959	0.0169
21	104.2400	0.4500	4377.7800	790.4814	0.1005	0.0181
22	104.2525	0.4625	4579.2450	846.4581	0.1051	0.0194
23	104.2650	0.4750	4780.7100	904.9533	0.1098	0.0208
24	104.2775	0.4875	4982.1750	965.9670	0.1144	0.0222
25	104.2900	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	104.3025	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	104.3150	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	104.3275	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	104.3400	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	104.3525	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	104.3650	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	104.3775	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	104.3900	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	104.4025	0.6125	7900.6950	1761.8875	0.1814	0.0404
35	104.4150	0.6250	8265.5100	1862.9177	0.1897	0.0428
36	104.4275	0.6375	8630.3250	1968.5084	0.1981	0.0452
37	104.4400	0.6500	8995.1400	2078.6597	0.2065	0.0477
38	104.4525	0.6625	9359.9550	2193.3715	0.2149	0.0504
39	104.4650	0.6750	9724.7700	2312.6438	0.2233	0.0531
40	104.4775	0.6875	10089.5850	2436.4765	0.2316	0.0559
41	104.4900	0.7000	10454.4000	2564.8697	0.2400	0.0589
42	104.5150	0.7250	11287.4850	2836.5767	0.2591	0.0651
43	104.5400	0.7500	12120.5700	3129.1156	0.2782	0.0718
44	104.5650	0.7750	12953.6550	3442.4857	0.2974	0.0790
45	104.5900	0.8000	13786.7400	3776.6866	0.3165	0.0867
46	104.6150	0.8250	14619.8250	4131.7177	0.3356	0.0949
47	104.6400	0.8500	15452.9100	4507.5788	0.3548	0.1035
48	104.6650	0.8750	16285.9950	4904.2696	0.3739	0.1126
49	104.6900	0.9000	17119.0800	5321.7897	0.3930	0.1222
50	108.7900	5.0000	17119.0800	75510.0177	0.3930	1.7335

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| Variable storage data for node | CA-37
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	102.2100	0.0000	4.3560	0.0000	0.0001	0.0000
2	102.2350	0.0250	150.8265	1.5068	0.0035	0.0000
3	102.2600	0.0500	297.2970	7.0058	0.0068	0.0002
4	102.2850	0.0750	443.7675	16.2082	0.0102	0.0004
5	102.3100	0.1000	590.2380	29.0898	0.0135	0.0007
6	102.3350	0.1250	736.7085	45.6428	0.0169	0.0010
7	102.3600	0.1500	883.1790	65.8638	0.0203	0.0015
8	102.3850	0.1750	1029.6495	89.7507	0.0236	0.0021
9	102.4100	0.2000	1176.1200	117.3026	0.0270	0.0027
10	102.4350	0.2250	1475.5950	150.3783	0.0339	0.0035
11	102.4600	0.2500	1775.0700	190.9540	0.0408	0.0044
12	102.4850	0.2750	2074.5450	239.0256	0.0476	0.0055
13	102.5100	0.3000	2374.0200	294.5906	0.0545	0.0068
14	102.5350	0.3250	2673.4950	357.6475	0.0614	0.0082
15	102.5600	0.3500	2972.9700	428.1952	0.0683	0.0098
16	102.5850	0.3750	3272.4450	506.2330	0.0751	0.0116
17	102.6100	0.4000	3571.9200	591.7602	0.0820	0.0136
18	102.6225	0.4125	3773.3850	637.6626	0.0866	0.0146
19	102.6350	0.4250	3974.8500	686.0836	0.0912	0.0158
20	102.6475	0.4375	4176.3150	737.0232	0.0959	0.0169
21	102.6600	0.4500	4377.7800	790.4814	0.1005	0.0181
22	102.6725	0.4625	4579.2450	846.4581	0.1051	0.0194
23	102.6850	0.4750	4780.7100	904.9533	0.1098	0.0208
24	102.6975	0.4875	4982.1750	965.9670	0.1144	0.0222
25	102.7100	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	102.7225	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	102.7350	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	102.7475	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	102.7600	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	102.7725	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	102.7850	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	102.7975	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	102.8100	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	102.8225	0.6125	7900.6950	1761.8875	0.1814	0.0404
35	102.8350	0.6250	8265.5100	1862.9177	0.1897	0.0428
36	102.8475	0.6375	8630.3250	1968.5084	0.1981	0.0452
37	102.8600	0.6500	8995.1400	2078.6597	0.2065	0.0477
38	102.8725	0.6625	9359.9550	2193.3715	0.2149	0.0504
39	102.8850	0.6750	9724.7700	2312.6438	0.2233	0.0531
40	102.8975	0.6875	10089.5850	2436.4765	0.2316	0.0559
41	102.9100	0.7000	10454.4000	2564.8697	0.2400	0.0589
42	102.9350	0.7250	11287.4850	2836.5767	0.2591	0.0651
43	102.9600	0.7500	12120.5700	3129.1156	0.2782	0.0718
44	102.9850	0.7750	12953.6550	3442.4857	0.2974	0.0790
45	103.0100	0.8000	13786.7400	3776.6866	0.3165	0.0867
46	103.0350	0.8250	14619.8250	4131.7177	0.3356	0.0949
47	103.0600	0.8500	15452.9100	4507.5788	0.3548	0.1035
48	103.0850	0.8750	16285.9950	4904.2696	0.3739	0.1126
49	103.1100	0.9000	17119.0800	5321.7897	0.3930	0.1222
50	107.7100	5.5000	17119.0800	84069.5577	0.3930	1.9300

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| Variable storage data for node | CA-36
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	102.2400	0.0000	4.3560	0.0000	0.0001	0.0000
2	102.2650	0.0250	150.8265	1.5068	0.0035	0.0000
3	102.2900	0.0500	297.2970	7.0058	0.0068	0.0002
4	102.3150	0.0750	443.7675	16.2082	0.0102	0.0004
5	102.3400	0.1000	590.2380	29.0898	0.0135	0.0007
6	102.3650	0.1250	736.7085	45.6428	0.0169	0.0010
7	102.3900	0.1500	883.1790	65.8638	0.0203	0.0015
8	102.4150	0.1750	1029.6495	89.7507	0.0236	0.0021
9	102.4400	0.2000	1176.1200	117.3026	0.0270	0.0027
10	102.4650	0.2250	1475.5950	150.3783	0.0339	0.0035
11	102.4900	0.2500	1775.0700	190.9540	0.0408	0.0044
12	102.5150	0.2750	2074.5450	239.0256	0.0476	0.0055
13	102.5400	0.3000	2374.0200	294.5906	0.0545	0.0068
14	102.5650	0.3250	2673.4950	357.6475	0.0614	0.0082
15	102.5900	0.3500	2972.9700	428.1952	0.0683	0.0098
16	102.6150	0.3750	3272.4450	506.2330	0.0751	0.0116
17	102.6400	0.4000	3571.9200	591.7602	0.0820	0.0136
18	102.6525	0.4125	3773.3850	637.6626	0.0866	0.0146
19	102.6650	0.4250	3974.8500	686.0836	0.0912	0.0158
20	102.6775	0.4375	4176.3150	737.0232	0.0959	0.0169
21	102.6900	0.4500	4377.7800	790.4814	0.1005	0.0181
22	102.7025	0.4625	4579.2450	846.4581	0.1051	0.0194
23	102.7150	0.4750	4780.7100	904.9533	0.1098	0.0208
24	102.7275	0.4875	4982.1750	965.9670	0.1144	0.0222
25	102.7400	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	102.7525	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	102.7650	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	102.7775	0.5375	6065.7300	1240.4008	0.1392	0.0285

29	102.7900	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	102.8025	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	102.8150	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	102.8275	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	102.8400	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	102.8525	0.6125	7900.6950	1761.8875	0.1814	0.0404
35	102.8650	0.6250	8265.5100	1862.9177	0.1897	0.0428
36	102.8775	0.6375	8630.3250	1968.5084	0.1981	0.0452
37	102.8900	0.6500	8995.1400	2078.6597	0.2065	0.0477
38	102.9025	0.6625	9359.9550	2193.3715	0.2149	0.0504
39	102.9150	0.6750	9724.7700	2312.6438	0.2233	0.0531
40	102.9275	0.6875	10089.5850	2436.4765	0.2316	0.0559
41	102.9400	0.7000	10454.4000	2564.8697	0.2400	0.0589
42	102.9650	0.7250	11287.4850	2836.5767	0.2591	0.0651
43	102.9900	0.7500	12120.5700	3129.1156	0.2782	0.0718
44	103.0150	0.7750	12953.6550	3442.4857	0.2974	0.0790
45	103.0400	0.8000	13786.7400	3776.6866	0.3165	0.0867
46	103.0650	0.8250	14619.8250	4131.7177	0.3356	0.0949
47	103.0900	0.8500	15452.9100	4507.5788	0.3548	0.1035
48	103.1150	0.8750	16285.9950	4904.2696	0.3739	0.1126
49	103.1400	0.9000	17119.0800	5321.7897	0.3930	0.1222
50	106.7400	4.5000	17119.0800	66950.4777	0.3930	1.5370

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| Variable storage data for node | CA-35
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	102.4500	0.0000	4.3560	0.0000	0.0001	0.0000
2	102.4750	0.0250	150.8265	1.5068	0.0035	0.0000
3	102.5000	0.0500	297.2970	7.0058	0.0068	0.0002
4	102.5250	0.0750	443.7675	16.2082	0.0102	0.0004
5	102.5500	0.1000	590.2380	29.0898	0.0135	0.0007
6	102.5750	0.1250	736.7085	45.6428	0.0169	0.0010
7	102.6000	0.1500	883.1790	65.8638	0.0203	0.0015
8	102.6250	0.1750	1029.6495	89.7507	0.0236	0.0021
9	102.6500	0.2000	1176.1200	117.3026	0.0270	0.0027
10	102.6750	0.2250	1475.5950	150.3783	0.0339	0.0035
11	102.7000	0.2500	1775.0700	190.9540	0.0408	0.0044
12	102.7250	0.2750	2074.5450	239.0256	0.0476	0.0055
13	102.7500	0.3000	2374.0200	294.5906	0.0545	0.0068
14	102.7750	0.3250	2673.4950	357.6475	0.0614	0.0082
15	102.8000	0.3500	2972.9700	428.1952	0.0683	0.0098
16	102.8250	0.3750	3272.4450	506.2330	0.0751	0.0116
17	102.8500	0.4000	3571.9200	591.7602	0.0820	0.0136
18	102.8625	0.4125	3773.3850	637.6626	0.0866	0.0146
19	102.8750	0.4250	3974.8500	686.0836	0.0912	0.0158
20	102.8875	0.4375	4176.3150	737.0232	0.0959	0.0169
21	102.9000	0.4500	4377.7800	790.4814	0.1005	0.0181
22	102.9125	0.4625	4579.2450	846.4581	0.1051	0.0194
23	102.9250	0.4750	4780.7100	904.9533	0.1098	0.0208
24	102.9375	0.4875	4982.1750	965.9670	0.1144	0.0222
25	102.9500	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	102.9625	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	102.9750	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	102.9875	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	103.0000	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	103.0125	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	103.0250	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	103.0375	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	103.0500	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	103.0625	0.6125	7900.6950	1761.8875	0.1814	0.0404
35	103.0750	0.6250	8265.5100	1862.9177	0.1897	0.0428
36	103.0875	0.6375	8630.3250	1968.5084	0.1981	0.0452
37	103.1000	0.6500	8995.1400	2078.6597	0.2065	0.0477
38	103.1125	0.6625	9359.9550	2193.3715	0.2149	0.0504
39	103.1250	0.6750	9724.7700	2312.6438	0.2233	0.0531
40	103.1375	0.6875	10089.5850	2436.4765	0.2316	0.0559
41	103.1500	0.7000	10454.4000	2564.8697	0.2400	0.0589
42	103.1750	0.7250	11287.4850	2836.5767	0.2591	0.0651
43	103.2000	0.7500	12120.5700	3129.1156	0.2782	0.0718
44	103.2250	0.7750	12953.6550	3442.4857	0.2974	0.0790
45	103.2500	0.8000	13786.7400	3776.6866	0.3165	0.0867
46	103.2750	0.8250	14619.8250	4131.7177	0.3356	0.0949
47	103.3000	0.8500	15452.9100	4507.5788	0.3548	0.1035
48	103.3250	0.8750	16285.9950	4904.2696	0.3739	0.1126
49	103.3500	0.9000	17119.0800	5321.7897	0.3930	0.1222
50	106.9500	4.5000	17119.0800	66950.4777	0.3930	1.5370

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| Variable storage data for node | CA-34
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	102.3800	0.0000	4.3560	0.0000	0.0001	0.0000
2	102.4050	0.0250	150.8265	1.5068	0.0035	0.0000
3	102.4300	0.0500	297.2970	7.0058	0.0068	0.0002
4	102.4550	0.0750	443.7675	16.2082	0.0102	0.0004
5	102.4800	0.1000	590.2380	29.0898	0.0135	0.0007
6	102.5050	0.1250	736.7085	45.6428	0.0169	0.0010
7	102.5300	0.1500	883.1790	65.8638	0.0203	0.0015
8	102.5550	0.1750	1029.6495	89.7507	0.0236	0.0021
9	102.5800	0.2000	1176.1200	117.3026	0.0270	0.0027
10	102.6050	0.2250	1475.5950	150.3783	0.0339	0.0035
11	102.6300	0.2500	1775.0700	190.9540	0.0408	0.0044
12	102.6550	0.2750	2074.5450	239.0256	0.0476	0.0055
13	102.6800	0.3000	2374.0200	294.5906	0.0545	0.0068
14	102.7050	0.3250	2673.4950	357.6475	0.0614	0.0082
15	102.7300	0.3500	2972.9700	428.1952	0.0683	0.0098
16	102.7550	0.3750	3272.4450	506.2330	0.0751	0.0116
17	102.7800	0.4000	3571.9200	591.7602	0.0820	0.0136
18	102.7925	0.4125	3773.3850	637.6626	0.0866	0.0146
19	102.8050	0.4250	3974.8500	686.0836	0.0912	0.0158
20	102.8175	0.4375	4176.3150	737.0232	0.0959	0.0169
21	102.8300	0.4500	4377.7800	790.4814	0.1005	0.0181
22	102.8425	0.4625	4579.2450	846.4581	0.1051	0.0194
23	102.8550	0.4750	4780.7100	904.9533	0.1098	0.0208
24	102.8675	0.4875	4982.1750	965.9670	0.1144	0.0222
25	102.8800	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	102.8925	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	102.9050	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	102.9175	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	102.9300	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	102.9425	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	102.9550	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	102.9675	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	102.9800	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	102.9925	0.6125	7900.6950	1761.8875	0.1814	0.0404
35	103.0050	0.6250	8265.5100	1862.9177	0.1897	0.0428
36	103.0175	0.6375	8630.3250	1968.5084	0.1981	0.0452
37	103.0300	0.6500	8995.1400	2078.6597	0.2065	0.0477
38	103.0425	0.6625	9359.9550	2193.3715	0.2149	0.0504
39	103.0550	0.6750	9724.7700	2312.6438	0.2233	0.0531
40	103.0675	0.6875	10089.5850	2436.4765	0.2316	0.0559
41	103.0800	0.7000	10454.4000	2564.8697	0.2400	0.0589
42	103.1050	0.7250	11287.4850	2836.5767	0.2591	0.0651

43	103.1300	0.7500	12120.5700	3129.1156	0.2782	0.0718
44	103.1550	0.7750	12953.6550	3442.4857	0.2974	0.0790
45	103.1800	0.8000	13786.7400	3776.6866	0.3165	0.0867
46	103.2050	0.8250	14619.8250	4131.7177	0.3356	0.0949
47	103.2300	0.8500	15452.9100	4507.5788	0.3548	0.1035
48	103.2550	0.8750	16285.9950	4904.2696	0.3739	0.1126
49	103.2800	0.9000	17119.0800	5321.7897	0.3930	0.1222
50	106.8800	4.5000	17119.0800	66950.4777	0.3930	1.5370

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| Variable storage data for node | CA-33
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	102.1500	0.0000	4.3560	0.0000	0.0001	0.0000
2	102.1750	0.0250	150.8265	1.5068	0.0035	0.0000
3	102.2000	0.0500	297.2970	7.0058	0.0068	0.0002
4	102.2250	0.0750	443.7675	16.2082	0.0102	0.0004
5	102.2500	0.1000	590.2380	29.0898	0.0135	0.0007
6	102.2750	0.1250	736.7085	45.6428	0.0169	0.0010
7	102.3000	0.1500	883.1790	65.8638	0.0203	0.0015
8	102.3250	0.1750	1029.6495	89.7507	0.0236	0.0021
9	102.3500	0.2000	1176.1200	117.3026	0.0270	0.0027
10	102.3750	0.2250	1475.5950	150.3783	0.0339	0.0035
11	102.4000	0.2500	1775.0700	190.9540	0.0408	0.0044
12	102.4250	0.2750	2074.5450	239.0256	0.0476	0.0055
13	102.4500	0.3000	2374.0200	294.5906	0.0545	0.0068
14	102.4750	0.3250	2673.4950	357.6475	0.0614	0.0082
15	102.5000	0.3500	2972.9700	428.1952	0.0683	0.0098
16	102.5250	0.3750	3272.4450	506.2330	0.0751	0.0116
17	102.5500	0.4000	3571.9200	591.7602	0.0820	0.0136
18	102.5625	0.4125	3773.3850	637.6626	0.0866	0.0146
19	102.5750	0.4250	3974.8500	686.0836	0.0912	0.0158
20	102.5875	0.4375	4176.3150	737.0232	0.0959	0.0169
21	102.6000	0.4500	4377.7800	790.4814	0.1005	0.0181
22	102.6125	0.4625	4579.2450	846.4581	0.1051	0.0194
23	102.6250	0.4750	4780.7100	904.9533	0.1098	0.0208
24	102.6375	0.4875	4982.1750	965.9670	0.1144	0.0222
25	102.6500	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	102.6625	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	102.6750	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	102.6875	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	102.7000	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	102.7125	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	102.7250	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	102.7375	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	102.7500	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	102.7625	0.6125	7900.6950	1761.8875	0.1814	0.0404
35	102.7750	0.6250	8265.5100	1862.9177	0.1897	0.0428
36	102.7875	0.6375	8630.3250	1968.5084	0.1981	0.0452
37	102.8000	0.6500	8995.1400	2078.6597	0.2065	0.0477
38	102.8125	0.6625	9359.9550	2193.3715	0.2149	0.0504
39	102.8250	0.6750	9724.7700	2312.6438	0.2233	0.0531
40	102.8375	0.6875	10089.5850	2436.4765	0.2316	0.0559
41	102.8500	0.7000	10454.4000	2564.8697	0.2400	0.0589
42	102.8750	0.7250	11287.4850	2836.5767	0.2591	0.0651
43	102.9000	0.7500	12120.5700	3129.1156	0.2782	0.0718
44	102.9250	0.7750	12953.6550	3442.4857	0.2974	0.0790
45	102.9500	0.8000	13786.7400	3776.6866	0.3165	0.0867
46	102.9750	0.8250	14619.8250	4131.7177	0.3356	0.0949
47	103.0000	0.8500	15452.9100	4507.5788	0.3548	0.1035
48	103.0250	0.8750	16285.9950	4904.2696	0.3739	0.1126
49	103.0500	0.9000	17119.0800	5321.7897	0.3930	0.1222
50	106.6500	4.5000	17119.0800	66950.4777	0.3930	1.5370

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| Variable storage data for node | CA-32
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	102.4600	0.0000	4.3560	0.0000	0.0001	0.0000
2	102.4850	0.0250	150.8265	1.5068	0.0035	0.0000
3	102.5100	0.0500	297.2970	7.0058	0.0068	0.0002
4	102.5350	0.0750	443.7675	16.2082	0.0102	0.0004
5	102.5600	0.1000	590.2380	29.0898	0.0135	0.0007
6	102.5850	0.1250	736.7085	45.6428	0.0169	0.0010
7	102.6100	0.1500	883.1790	65.8638	0.0203	0.0015
8	102.6350	0.1750	1029.6495	89.7507	0.0236	0.0021
9	102.6600	0.2000	1176.1200	117.3026	0.0270	0.0027
10	102.6850	0.2250	1475.5950	150.3783	0.0339	0.0035
11	102.7100	0.2500	1775.0700	190.9540	0.0408	0.0044
12	102.7350	0.2750	2074.5450	239.0256	0.0476	0.0055
13	102.7600	0.3000	2374.0200	294.5906	0.0545	0.0068
14	102.7850	0.3250	2673.4950	357.6475	0.0614	0.0082
15	102.8100	0.3500	2972.9700	428.1952	0.0683	0.0098
16	102.8350	0.3750	3272.4450	506.2330	0.0751	0.0116
17	102.8600	0.4000	3571.9200	591.7602	0.0820	0.0136
18	102.8725	0.4125	3773.3850	637.6626	0.0866	0.0146
19	102.8850	0.4250	3974.8500	686.0836	0.0912	0.0158
20	102.8975	0.4375	4176.3150	737.0232	0.0959	0.0169
21	102.9100	0.4500	4377.7800	790.4814	0.1005	0.0181
22	102.9225	0.4625	4579.2450	846.4581	0.1051	0.0194
23	102.9350	0.4750	4780.7100	904.9533	0.1098	0.0208
24	102.9475	0.4875	4982.1750	965.9670	0.1144	0.0222
25	102.9600	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	102.9725	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	102.9850	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	102.9975	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	103.0100	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	103.0225	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	103.0350	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	103.0475	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	103.0600	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	103.0725	0.6125	7900.6950	1761.8875	0.1814	0.0404
35	103.0850	0.6250	8265.5100	1862.9177	0.1897	0.0428
36	103.0975	0.6375	8630.3250	1968.5084	0.1981	0.0452
37	103.1100	0.6500	8995.1400	2078.6597	0.2065	0.0477
38	103.1225	0.6625	9359.9550	2193.3715	0.2149	0.0504
39	103.1350	0.6750	9724.7700	2312.6438	0.2233	0.0531
40	103.1475	0.6875	10089.5850	2436.4765	0.2316	0.0559
41	103.1600	0.7000	10454.4000	2564.8697	0.2400	0.0589
42	103.1850	0.7250	11287.4850	2836.5767	0.2591	0.0651
43	103.2100	0.7500	12120.5700	3129.1156	0.2782	0.0718
44	103.2350	0.7750	12953.6550	3442.4857	0.2974	0.0790
45	103.2600	0.8000	13786.7400	3776.6866	0.3165	0.0867
46	103.2850	0.8250	14619.8250	4131.7177	0.3356	0.0949
47	103.3100	0.8500	15452.9100	4507.5788	0.3548	0.1035
48	103.3350	0.8750	16285.9950	4904.2696	0.3739	0.1126
49	103.3600	0.9000	17119.0800	5321.7897	0.3930	0.1222
50	106.9600	4.5000	17119.0800	66950.4777	0.3930	1.5370

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| Variable storage data for node | CA-31
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft

1	102.5300	0.0000	4.3560	0.0000	0.0001	0.0000
2	102.5550	0.0250	150.8265	1.5068	0.0035	0.0000
3	102.5800	0.0500	297.2970	7.0058	0.0068	0.0002
4	102.6050	0.0750	443.7675	16.2082	0.0102	0.0004
5	102.6300	0.1000	590.2380	29.0898	0.0135	0.0007
6	102.6550	0.1250	736.7085	45.6428	0.0169	0.0010
7	102.6800	0.1500	883.1790	65.8638	0.0203	0.0015
8	102.7050	0.1750	1029.6495	89.7507	0.0236	0.0021
9	102.7300	0.2000	1176.1200	117.3026	0.0270	0.0027
10	102.7550	0.2250	1475.5950	150.3783	0.0339	0.0035
11	102.7800	0.2500	1775.0700	190.9540	0.0408	0.0044
12	102.8050	0.2750	2074.5450	239.0256	0.0476	0.0055
13	102.8300	0.3000	2374.0200	294.5906	0.0545	0.0068
14	102.8550	0.3250	2673.4950	357.6475	0.0614	0.0082
15	102.8800	0.3500	2972.9700	428.1952	0.0683	0.0098
16	102.9050	0.3750	3272.4450	506.2330	0.0751	0.0116
17	102.9300	0.4000	3571.9200	591.7602	0.0820	0.0136
18	102.9425	0.4125	3773.3850	637.6626	0.0866	0.0146
19	102.9550	0.4250	3974.8500	686.0836	0.0912	0.0158
20	102.9675	0.4375	4176.3150	737.0232	0.0959	0.0169
21	102.9800	0.4500	4377.7800	790.4814	0.1005	0.0181
22	102.9925	0.4625	4579.2450	846.4581	0.1051	0.0194
23	103.0050	0.4750	4780.7100	904.9533	0.1098	0.0208
24	103.0175	0.4875	4982.1750	965.9670	0.1144	0.0222
25	103.0300	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	103.0425	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	103.0550	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	103.0675	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	103.0800	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	103.0925	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	103.1050	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	103.1175	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	103.1300	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	103.1425	0.6125	7900.6950	1761.8875	0.1814	0.0404
35	103.1550	0.6250	8265.5100	1862.9177	0.1897	0.0428
36	103.1675	0.6375	8630.3250	1968.5084	0.1981	0.0452
37	103.1800	0.6500	8995.1400	2078.6597	0.2065	0.0477
38	103.1925	0.6625	9359.9550	2193.3715	0.2149	0.0504
39	103.2050	0.6750	9724.7700	2312.6438	0.2233	0.0531
40	103.2175	0.6875	10089.5850	2436.4765	0.2316	0.0559
41	103.2300	0.7000	10454.4000	2564.8697	0.2400	0.0589
42	103.2550	0.7250	11287.4850	2836.5767	0.2591	0.0651
43	103.2800	0.7500	12120.5700	3129.1156	0.2782	0.0718
44	103.3050	0.7750	12953.6550	3442.4857	0.2974	0.0790
45	103.3300	0.8000	13786.7400	3776.6866	0.3165	0.0867
46	103.3550	0.8250	14619.8250	4131.7177	0.3356	0.0949
47	103.3800	0.8500	15452.9100	4507.5788	0.3548	0.1035
48	103.4050	0.8750	16285.9950	4904.2696	0.3739	0.1126
49	103.4300	0.9000	17119.0800	5321.7897	0.3930	0.1222
50	107.0300	4.5000	17119.0800	66950.4777	0.3930	1.5370

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| Variable storage data for node | CA-27
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	102.8600	0.0000	4.3560	0.0000	0.0001	0.0000
2	102.8850	0.0250	150.8265	1.5068	0.0035	0.0000
3	102.9100	0.0500	297.2970	7.0058	0.0068	0.0002
4	102.9350	0.0750	443.7675	16.2082	0.0102	0.0004
5	102.9600	0.1000	590.2380	29.0898	0.0135	0.0007
6	102.9850	0.1250	736.7085	45.6428	0.0169	0.0010
7	103.0100	0.1500	883.1790	65.8638	0.0203	0.0015
8	103.0350	0.1750	1029.6495	89.7507	0.0236	0.0021
9	103.0600	0.2000	1176.1200	117.3026	0.0270	0.0027
10	103.0850	0.2250	1475.5950	150.3783	0.0339	0.0035
11	103.1100	0.2500	1775.0700	190.9540	0.0408	0.0044
12	103.1350	0.2750	2074.5450	239.0256	0.0476	0.0055
13	103.1600	0.3000	2374.0200	294.5906	0.0545	0.0068
14	103.1850	0.3250	2673.4950	357.6475	0.0614	0.0082
15	103.2100	0.3500	2972.9700	428.1952	0.0683	0.0098
16	103.2350	0.3750	3272.4450	506.2330	0.0751	0.0116
17	103.2600	0.4000	3571.9200	591.7602	0.0820	0.0136
18	103.2725	0.4125	3773.3850	637.6626	0.0866	0.0146
19	103.2850	0.4250	3974.8500	686.0836	0.0912	0.0158
20	103.2975	0.4375	4176.3150	737.0232	0.0959	0.0169
21	103.3100	0.4500	4377.7800	790.4814	0.1005	0.0181
22	103.3225	0.4625	4579.2450	846.4581	0.1051	0.0194
23	103.3350	0.4750	4780.7100	904.9533	0.1098	0.0208
24	103.3475	0.4875	4982.1750	965.9670	0.1144	0.0222
25	103.3600	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	103.3725	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	103.3850	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	103.3975	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	103.4100	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	103.4225	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	103.4350	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	103.4475	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	103.4600	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	103.4725	0.6125	7900.6950	1761.8875	0.1814	0.0404
35	103.4850	0.6250	8265.5100	1862.9177	0.1897	0.0428
36	103.4975	0.6375	8630.3250	1968.5084	0.1981	0.0452
37	103.5100	0.6500	8995.1400	2078.6597	0.2065	0.0477
38	103.5225	0.6625	9359.9550	2193.3715	0.2149	0.0504
39	103.5350	0.6750	9724.7700	2312.6438	0.2233	0.0531
40	103.5475	0.6875	10089.5850	2436.4765	0.2316	0.0559
41	103.5600	0.7000	10454.4000	2564.8697	0.2400	0.0589
42	103.5850	0.7250	11287.4850	2836.5767	0.2591	0.0651
43	103.6100	0.7500	12120.5700	3129.1156	0.2782	0.0718
44	103.6350	0.7750	12953.6550	3442.4857	0.2974	0.0790
45	103.6600	0.8000	13786.7400	3776.6866	0.3165	0.0867
46	103.6850	0.8250	14619.8250	4131.7177	0.3356	0.0949
47	103.7100	0.8500	15452.9100	4507.5788	0.3548	0.1035
48	103.7350	0.8750	16285.9950	4904.2696	0.3739	0.1126
49	103.7600	0.9000	17119.0800	5321.7897	0.3930	0.1222
50	107.3600	4.5000	17119.0800	66950.4777	0.3930	1.5370

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| Variable storage data for node | CA-26
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	102.8700	0.0000	4.3560	0.0000	0.0001	0.0000
2	102.8950	0.0250	150.8265	1.5068	0.0035	0.0000
3	102.9200	0.0500	297.2970	7.0058	0.0068	0.0002
4	102.9450	0.0750	443.7675	16.2082	0.0102	0.0004
5	102.9700	0.1000	590.2380	29.0898	0.0135	0.0007
6	102.9950	0.1250	736.7085	45.6428	0.0169	0.0010
7	103.0200	0.1500	883.1790	65.8638	0.0203	0.0015
8	103.0450	0.1750	1029.6495	89.7507	0.0236	0.0021
9	103.0700	0.2000	1176.1200	117.3026	0.0270	0.0027
10	103.0950	0.2250	1475.5950	150.3783	0.0339	0.0035
11	103.1200	0.2500	1775.0700	190.9540	0.0408	0.0044
12	103.1450	0.2750	2074.5450	239.0256	0.0476	0.0055
13	103.1700	0.3000	2374.0200	294.5906	0.0545	0.0068

14	103.1950	0.3250	2673.4950	357.6475	0.0614	0.0082
15	103.2200	0.3500	2972.9700	428.1952	0.0683	0.0098
16	103.2450	0.3750	3272.4450	506.2330	0.0751	0.0116
17	103.2700	0.4000	3571.9200	591.7602	0.0820	0.0136
18	103.2825	0.4125	3773.3850	637.6626	0.0866	0.0146
19	103.2950	0.4250	3974.8500	686.0836	0.0912	0.0158
20	103.3075	0.4375	4176.3150	737.0232	0.0959	0.0169
21	103.3200	0.4500	4377.7800	790.4814	0.1005	0.0181
22	103.3325	0.4625	4579.2450	846.4581	0.1051	0.0194
23	103.3450	0.4750	4780.7100	904.9533	0.1098	0.0208
24	103.3575	0.4875	4982.1750	965.9670	0.1144	0.0222
25	103.3700	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	103.3825	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	103.3950	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	103.4075	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	103.4200	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	103.4325	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	103.4450	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	103.4575	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	103.4700	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	103.4825	0.6125	7900.6950	1761.8875	0.1814	0.0404
35	103.4950	0.6250	8265.5100	1862.9177	0.1897	0.0428
36	103.5075	0.6375	8630.3250	1968.5084	0.1981	0.0452
37	103.5200	0.6500	8995.1400	2078.6597	0.2065	0.0477
38	103.5325	0.6625	9359.9550	2193.3715	0.2149	0.0504
39	103.5450	0.6750	9724.7700	2312.6438	0.2233	0.0531
40	103.5575	0.6875	10089.5850	2436.4765	0.2316	0.0559
41	103.5700	0.7000	10454.4000	2564.8697	0.2400	0.0589
42	103.5950	0.7250	11287.4850	2836.5767	0.2591	0.0651
43	103.6200	0.7500	12120.5700	3129.1156	0.2782	0.0718
44	103.6450	0.7750	12953.6550	3442.4857	0.2974	0.0790
45	103.6700	0.8000	13786.7400	3776.6866	0.3165	0.0867
46	103.6950	0.8250	14619.8250	4131.7177	0.3356	0.0949
47	103.7200	0.8500	15452.9100	4507.5788	0.3548	0.1035
48	103.7450	0.8750	16285.9950	4904.2696	0.3739	0.1126
49	103.7700	0.9000	17119.0800	5321.7897	0.3930	0.1222
50	113.3700	10.5000	17119.0800	169664.9577	0.3930	3.8950

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| Variable storage data for node | CA-25
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	102.6700	0.0000	4.3560	0.0000	0.0001	0.0000
2	102.6950	0.0250	150.8265	1.5068	0.0035	0.0000
3	102.7200	0.0500	297.2970	7.0058	0.0068	0.0002
4	102.7450	0.0750	443.7675	16.2082	0.0102	0.0004
5	102.7700	0.1000	590.2380	29.0898	0.0135	0.0007
6	102.7950	0.1250	736.7085	45.6428	0.0169	0.0010
7	102.8200	0.1500	883.1790	65.8638	0.0203	0.0015
8	102.8450	0.1750	1029.6495	89.7507	0.0236	0.0021
9	102.8700	0.2000	1176.1200	117.3026	0.0270	0.0027
10	102.8950	0.2250	1475.5950	150.3783	0.0339	0.0035
11	102.9200	0.2500	1775.0700	190.9540	0.0408	0.0044
12	102.9450	0.2750	2074.5450	239.0256	0.0476	0.0055
13	102.9700	0.3000	2374.0200	294.5906	0.0545	0.0068
14	102.9950	0.3250	2673.4950	357.6475	0.0614	0.0082
15	103.0200	0.3500	2972.9700	428.1952	0.0683	0.0098
16	103.0450	0.3750	3272.4450	506.2330	0.0751	0.0116
17	103.0700	0.4000	3571.9200	591.7602	0.0820	0.0136
18	103.0825	0.4125	3773.3850	637.6626	0.0866	0.0146
19	103.0950	0.4250	3974.8500	686.0836	0.0912	0.0158
20	103.1075	0.4375	4176.3150	737.0232	0.0959	0.0169
21	103.1200	0.4500	4377.7800	790.4814	0.1005	0.0181
22	103.1325	0.4625	4579.2450	846.4581	0.1051	0.0194
23	103.1450	0.4750	4780.7100	904.9533	0.1098	0.0208
24	103.1575	0.4875	4982.1750	965.9670	0.1144	0.0222
25	103.1700	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	103.1825	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	103.1950	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	103.2075	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	103.2200	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	103.2325	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	103.2450	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	103.2575	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	103.2700	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	103.2825	0.6125	7900.6950	1761.8875	0.1814	0.0404
35	103.2950	0.6250	8265.5100	1862.9177	0.1897	0.0428
36	103.3075	0.6375	8630.3250	1968.5084	0.1981	0.0452
37	103.3200	0.6500	8995.1400	2078.6597	0.2065	0.0477
38	103.3325	0.6625	9359.9550	2193.3715	0.2149	0.0504
39	103.3450	0.6750	9724.7700	2312.6438	0.2233	0.0531
40	103.3575	0.6875	10089.5850	2436.4765	0.2316	0.0559
41	103.3700	0.7000	10454.4000	2564.8697	0.2400	0.0589
42	103.3950	0.7250	11287.4850	2836.5767	0.2591	0.0651
43	103.4200	0.7500	12120.5700	3129.1156	0.2782	0.0718
44	103.4450	0.7750	12953.6550	3442.4857	0.2974	0.0790
45	103.4700	0.8000	13786.7400	3776.6866	0.3165	0.0867
46	103.4950	0.8250	14619.8250	4131.7177	0.3356	0.0949
47	103.5200	0.8500	15452.9100	4507.5788	0.3548	0.1035
48	103.5450	0.8750	16285.9950	4904.2696	0.3739	0.1126
49	103.5700	0.9000	17119.0800	5321.7897	0.3930	0.1222
50	107.1700	4.5000	17119.0800	66950.4777	0.3930	1.5370

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| Variable storage data for node | CA-24
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	102.4200	0.0000	4.3560	0.0000	0.0001	0.0000
2	102.4450	0.0250	150.8265	1.5068	0.0035	0.0000
3	102.4700	0.0500	297.2970	7.0058	0.0068	0.0002
4	102.4950	0.0750	443.7675	16.2082	0.0102	0.0004
5	102.5200	0.1000	590.2380	29.0898	0.0135	0.0007
6	102.5450	0.1250	736.7085	45.6428	0.0169	0.0010
7	102.5700	0.1500	883.1790	65.8638	0.0203	0.0015
8	102.5950	0.1750	1029.6495	89.7507	0.0236	0.0021
9	102.6200	0.2000	1176.1200	117.3026	0.0270	0.0027
10	102.6450	0.2250	1475.5950	150.3783	0.0339	0.0035
11	102.6700	0.2500	1775.0700	190.9540	0.0408	0.0044
12	102.6950	0.2750	2074.5450	239.0256	0.0476	0.0055
13	102.7200	0.3000	2374.0200	294.5906	0.0545	0.0068
14	102.7450	0.3250	2673.4950	357.6475	0.0614	0.0082
15	102.7700	0.3500	2972.9700	428.1952	0.0683	0.0098
16	102.7950	0.3750	3272.4450	506.2330	0.0751	0.0116
17	102.8200	0.4000	3571.9200	591.7602	0.0820	0.0136
18	102.8325	0.4125	3773.3850	637.6626	0.0866	0.0146
19	102.8450	0.4250	3974.8500	686.0836	0.0912	0.0158
20	102.8575	0.4375	4176.3150	737.0232	0.0959	0.0169
21	102.8700	0.4500	4377.7800	790.4814	0.1005	0.0181
22	102.8825	0.4625	4579.2450	846.4581	0.1051	0.0194
23	102.8950	0.4750	4780.7100	904.9533	0.1098	0.0208
24	102.9075	0.4875	4982.1750	965.9670	0.1144	0.0222
25	102.9200	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	102.9325	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	102.9450	0.5250	5771.7000	1166.4244	0.1325	0.0268

28	102.9575	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	102.9700	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	102.9825	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	102.9950	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	103.0075	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	103.0200	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	103.0325	0.6125	7900.6950	1761.8875	0.1814	0.0404
35	103.0450	0.6250	8265.5100	1862.9177	0.1897	0.0428
36	103.0575	0.6375	8630.3250	1968.5084	0.1981	0.0452
37	103.0700	0.6500	8995.1400	2078.6597	0.2065	0.0477
38	103.0825	0.6625	9359.9550	2193.3715	0.2149	0.0504
39	103.0950	0.6750	9724.7700	2312.6438	0.2233	0.0531
40	103.1075	0.6875	10089.5850	2436.4765	0.2316	0.0559
41	103.1200	0.7000	10454.4000	2564.8697	0.2400	0.0589
42	103.1450	0.7250	11287.4850	2836.5767	0.2591	0.0651
43	103.1700	0.7500	12120.5700	3129.1156	0.2782	0.0718
44	103.1950	0.7750	12953.6550	3442.4857	0.2974	0.0790
45	103.2200	0.8000	13786.7400	3776.6866	0.3165	0.0867
46	103.2450	0.8250	14619.8250	4131.7177	0.3356	0.0949
47	103.2700	0.8500	15452.9100	4507.5788	0.3548	0.1035
48	103.2950	0.8750	16285.9950	4904.2696	0.3739	0.1126
49	103.3200	0.9000	17119.0800	5321.7897	0.3930	0.1222
50	106.9200	4.5000	17119.0800	66950.4777	0.3930	1.5370

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| Variable storage data for node | CA-23
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	102.5100	0.0000	4.3560	0.0000	0.0001	0.0000
2	102.5350	0.0250	150.8265	1.5068	0.0035	0.0000
3	102.5600	0.0500	297.2970	7.0058	0.0068	0.0002
4	102.5850	0.0750	443.7675	16.2082	0.0102	0.0004
5	102.6100	0.1000	590.2380	29.0898	0.0135	0.0007
6	102.6350	0.1250	736.7085	45.6428	0.0169	0.0010
7	102.6600	0.1500	883.1790	65.8638	0.0203	0.0015
8	102.6850	0.1750	1029.6495	89.7507	0.0236	0.0021
9	102.7100	0.2000	1176.1200	117.3026	0.0270	0.0027
10	102.7350	0.2250	1475.5950	150.3783	0.0339	0.0035
11	102.7600	0.2500	1775.0700	190.9540	0.0408	0.0044
12	102.7850	0.2750	2074.5450	239.0256	0.0476	0.0055
13	102.8100	0.3000	2374.0200	294.5906	0.0545	0.0068
14	102.8350	0.3250	2673.4950	357.6475	0.0614	0.0082
15	102.8600	0.3500	2972.9700	428.1952	0.0683	0.0098
16	102.8850	0.3750	3272.4450	506.2330	0.0751	0.0116
17	102.9100	0.4000	3571.9200	591.7602	0.0820	0.0136
18	102.9225	0.4125	3773.3850	637.6626	0.0866	0.0146
19	102.9350	0.4250	3974.8500	686.0836	0.0912	0.0158
20	102.9475	0.4375	4176.3150	737.0232	0.0959	0.0169
21	102.9600	0.4500	4377.7800	790.4814	0.1005	0.0181
22	102.9725	0.4625	4579.2450	846.4581	0.1051	0.0194
23	102.9850	0.4750	4780.7100	904.9533	0.1098	0.0208
24	102.9975	0.4875	4982.1750	965.9670	0.1144	0.0222
25	103.0100	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	103.0225	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	103.0350	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	103.0475	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	103.0600	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	103.0725	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	103.0850	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	103.0975	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	103.1100	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	103.1225	0.6125	7900.6950	1761.8875	0.1814	0.0404
35	103.1350	0.6250	8265.5100	1862.9177	0.1897	0.0428
36	103.1475	0.6375	8630.3250	1968.5084	0.1981	0.0452
37	103.1600	0.6500	8995.1400	2078.6597	0.2065	0.0477
38	103.1725	0.6625	9359.9550	2193.3715	0.2149	0.0504
39	103.1850	0.6750	9724.7700	2312.6438	0.2233	0.0531
40	103.1975	0.6875	10089.5850	2436.4765	0.2316	0.0559
41	103.2100	0.7000	10454.4000	2564.8697	0.2400	0.0589
42	103.2350	0.7250	11287.4850	2836.5767	0.2591	0.0651
43	103.2600	0.7500	12120.5700	3129.1156	0.2782	0.0718
44	103.2850	0.7750	12953.6550	3442.4857	0.2974	0.0790
45	103.3100	0.8000	13786.7400	3776.6866	0.3165	0.0867
46	103.3350	0.8250	14619.8250	4131.7177	0.3356	0.0949
47	103.3600	0.8500	15452.9100	4507.5788	0.3548	0.1035
48	103.3850	0.8750	16285.9950	4904.2696	0.3739	0.1126
49	103.4100	0.9000	17119.0800	5321.7897	0.3930	0.1222
50	107.0100	4.5000	17119.0800	66950.4777	0.3930	1.5370

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| Variable storage data for node | CA-22
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	102.6800	0.0000	4.3560	0.0000	0.0001	0.0000
2	102.7050	0.0250	150.8265	1.5068	0.0035	0.0000
3	102.7300	0.0500	297.2970	7.0058	0.0068	0.0002
4	102.7550	0.0750	443.7675	16.2082	0.0102	0.0004
5	102.7800	0.1000	590.2380	29.0898	0.0135	0.0007
6	102.8050	0.1250	736.7085	45.6428	0.0169	0.0010
7	102.8300	0.1500	883.1790	65.8638	0.0203	0.0015
8	102.8550	0.1750	1029.6495	89.7507	0.0236	0.0021
9	102.8800	0.2000	1176.1200	117.3026	0.0270	0.0027
10	102.9050	0.2250	1475.5950	150.3783	0.0339	0.0035
11	102.9300	0.2500	1775.0700	190.9540	0.0408	0.0044
12	102.9550	0.2750	2074.5450	239.0256	0.0476	0.0055
13	102.9800	0.3000	2374.0200	294.5906	0.0545	0.0068
14	103.0050	0.3250	2673.4950	357.6475	0.0614	0.0082
15	103.0300	0.3500	2972.9700	428.1952	0.0683	0.0098
16	103.0550	0.3750	3272.4450	506.2330	0.0751	0.0116
17	103.0800	0.4000	3571.9200	591.7602	0.0820	0.0136
18	103.0925	0.4125	3773.3850	637.6626	0.0866	0.0146
19	103.1050	0.4250	3974.8500	686.0836	0.0912	0.0158
20	103.1175	0.4375	4176.3150	737.0232	0.0959	0.0169
21	103.1300	0.4500	4377.7800	790.4814	0.1005	0.0181
22	103.1425	0.4625	4579.2450	846.4581	0.1051	0.0194
23	103.1550	0.4750	4780.7100	904.9533	0.1098	0.0208
24	103.1675	0.4875	4982.1750	965.9670	0.1144	0.0222
25	103.1800	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	103.1925	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	103.2050	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	103.2175	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	103.2300	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	103.2425	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	103.2550	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	103.2675	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	103.2800	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	103.2925	0.6125	7900.6950	1761.8875	0.1814	0.0404
35	103.3050	0.6250	8265.5100	1862.9177	0.1897	0.0428
36	103.3175	0.6375	8630.3250	1968.5084	0.1981	0.0452
37	103.3300	0.6500	8995.1400	2078.6597	0.2065	0.0477
38	103.3425	0.6625	9359.9550	2193.3715	0.2149	0.0504
39	103.3550	0.6750	9724.7700	2312.6438	0.2233	0.0531
40	103.3675	0.6875	10089.5850	2436.4765	0.2316	0.0559
41	103.3800	0.7000	10454.4000	2564.8697	0.2400	0.0589

42	103.4050	0.7250	11287.4850	2836.5767	0.2591	0.0651
43	103.4300	0.7500	12120.5700	3129.1156	0.2782	0.0718
44	103.4550	0.7750	12953.6550	3442.4857	0.2974	0.0790
45	103.4800	0.8000	13786.7400	3776.6866	0.3165	0.0867
46	103.5050	0.8250	14619.8250	4131.7177	0.3356	0.0949
47	103.5300	0.8500	15452.9100	4507.5788	0.3548	0.1035
48	103.5550	0.8750	16285.9950	4904.2696	0.3739	0.1126
49	103.5800	0.9000	17119.0800	5321.7897	0.3930	0.1222
50	107.1800	4.5000	17119.0800	66950.4777	0.3930	1.5370

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| Variable storage data for node | CA-21
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	102.9000	0.0000	4.3560	0.0000	0.0001	0.0000
2	102.9250	0.0250	150.8265	1.5068	0.0035	0.0000
3	102.9500	0.0500	297.2970	7.0058	0.0068	0.0002
4	102.9750	0.0750	443.7675	16.2082	0.0102	0.0004
5	103.0000	0.1000	590.2380	29.0898	0.0135	0.0007
6	103.0250	0.1250	736.7085	45.6428	0.0169	0.0010
7	103.0500	0.1500	883.1790	65.8638	0.0203	0.0015
8	103.0750	0.1750	1029.6495	89.7507	0.0236	0.0021
9	103.1000	0.2000	1176.1200	117.3026	0.0270	0.0027
10	103.1250	0.2250	1475.5950	150.3783	0.0339	0.0035
11	103.1500	0.2500	1775.0700	190.9540	0.0408	0.0044
12	103.1750	0.2750	2074.5450	239.0256	0.0476	0.0055
13	103.2000	0.3000	2374.0200	294.5906	0.0545	0.0068
14	103.2250	0.3250	2673.4950	357.6475	0.0614	0.0082
15	103.2500	0.3500	2972.9700	428.1952	0.0683	0.0098
16	103.2750	0.3750	3272.4450	506.2330	0.0751	0.0116
17	103.3000	0.4000	3571.9200	591.7602	0.0820	0.0136
18	103.3125	0.4125	3773.3850	637.6626	0.0866	0.0146
19	103.3250	0.4250	3974.8500	686.0836	0.0912	0.0158
20	103.3375	0.4375	4176.3150	737.0232	0.0959	0.0169
21	103.3500	0.4500	4377.7800	790.4814	0.1005	0.0181
22	103.3625	0.4625	4579.2450	846.4581	0.1051	0.0194
23	103.3750	0.4750	4780.7100	904.9533	0.1098	0.0208
24	103.3875	0.4875	4982.1750	965.9670	0.1144	0.0222
25	103.4000	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	103.4125	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	103.4250	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	103.4375	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	103.4500	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	103.4625	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	103.4750	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	103.4875	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	103.5000	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	103.5125	0.6125	7900.6950	1761.8875	0.1814	0.0404
35	103.5250	0.6250	8265.5100	1862.9177	0.1897	0.0428
36	103.5375	0.6375	8630.3250	1968.5084	0.1981	0.0452
37	103.5500	0.6500	8995.1400	2078.6597	0.2065	0.0477
38	103.5625	0.6625	9359.9550	2193.3715	0.2149	0.0504
39	103.5750	0.6750	9724.7700	2312.6438	0.2233	0.0531
40	103.5875	0.6875	10089.5850	2436.4765	0.2316	0.0559
41	103.6000	0.7000	10454.4000	2564.8697	0.2400	0.0589
42	103.6250	0.7250	11287.4850	2836.5767	0.2591	0.0651
43	103.6500	0.7500	12120.5700	3129.1156	0.2782	0.0718
44	103.6750	0.7750	12953.6550	3442.4857	0.2974	0.0790
45	103.7000	0.8000	13786.7400	3776.6866	0.3165	0.0867
46	103.7250	0.8250	14619.8250	4131.7177	0.3356	0.0949
47	103.7500	0.8500	15452.9100	4507.5788	0.3548	0.1035
48	103.7750	0.8750	16285.9950	4904.2696	0.3739	0.1126
49	103.8000	0.9000	17119.0800	5321.7897	0.3930	0.1222
50	107.4000	4.5000	17119.0800	66950.4777	0.3930	1.5370

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| Variable storage data for node | CA-20
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	103.1100	0.0000	4.3560	0.0000	0.0001	0.0000
2	103.1350	0.0250	150.8265	1.5068	0.0035	0.0000
3	103.1600	0.0500	297.2970	7.0058	0.0068	0.0002
4	103.1850	0.0750	443.7675	16.2082	0.0102	0.0004
5	103.2100	0.1000	590.2380	29.0898	0.0135	0.0007
6	103.2350	0.1250	736.7085	45.6428	0.0169	0.0010
7	103.2600	0.1500	883.1790	65.8638	0.0203	0.0015
8	103.2850	0.1750	1029.6495	89.7507	0.0236	0.0021
9	103.3100	0.2000	1176.1200	117.3026	0.0270	0.0027
10	103.3350	0.2250	1475.5950	150.3783	0.0339	0.0035
11	103.3600	0.2500	1775.0700	190.9540	0.0408	0.0044
12	103.3850	0.2750	2074.5450	239.0256	0.0476	0.0055
13	103.4100	0.3000	2374.0200	294.5906	0.0545	0.0068
14	103.4350	0.3250	2673.4950	357.6475	0.0614	0.0082
15	103.4600	0.3500	2972.9700	428.1952	0.0683	0.0098
16	103.4850	0.3750	3272.4450	506.2330	0.0751	0.0116
17	103.5100	0.4000	3571.9200	591.7602	0.0820	0.0136
18	103.5225	0.4125	3773.3850	637.6626	0.0866	0.0146
19	103.5350	0.4250	3974.8500	686.0836	0.0912	0.0158
20	103.5475	0.4375	4176.3150	737.0232	0.0959	0.0169
21	103.5600	0.4500	4377.7800	790.4814	0.1005	0.0181
22	103.5725	0.4625	4579.2450	846.4581	0.1051	0.0194
23	103.5850	0.4750	4780.7100	904.9533	0.1098	0.0208
24	103.5975	0.4875	4982.1750	965.9670	0.1144	0.0222
25	103.6100	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	103.6225	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	103.6350	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	103.6475	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	103.6600	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	103.6725	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	103.6850	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	103.6975	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	103.7100	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	103.7225	0.6125	7900.6950	1761.8875	0.1814	0.0404
35	103.7350	0.6250	8265.5100	1862.9177	0.1897	0.0428
36	103.7475	0.6375	8630.3250	1968.5084	0.1981	0.0452
37	103.7600	0.6500	8995.1400	2078.6597	0.2065	0.0477
38	103.7725	0.6625	9359.9550	2193.3715	0.2149	0.0504
39	103.7850	0.6750	9724.7700	2312.6438	0.2233	0.0531
40	103.7975	0.6875	10089.5850	2436.4765	0.2316	0.0559
41	103.8100	0.7000	10454.4000	2564.8697	0.2400	0.0589
42	103.8350	0.7250	11287.4850	2836.5767	0.2591	0.0651
43	103.8600	0.7500	12120.5700	3129.1156	0.2782	0.0718
44	103.8850	0.7750	12953.6550	3442.4857	0.2974	0.0790
45	103.9100	0.8000	13786.7400	3776.6866	0.3165	0.0867
46	103.9350	0.8250	14619.8250	4131.7177	0.3356	0.0949
47	103.9600	0.8500	15452.9100	4507.5788	0.3548	0.1035
48	103.9850	0.8750	16285.9950	4904.2696	0.3739	0.1126
49	104.0100	0.9000	17119.0800	5321.7897	0.3930	0.1222
50	107.6100	4.5000	17119.0800	66950.4777	0.3930	1.5370

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| Variable storage data for node | CA-19
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Data	Elevation	Depth	Area	Volume	Area	Volume

Point	ft	ft	ft^2	ft^3	acres	ac-ft
1	103.3100	0.0000	4.3560	0.0000	0.0001	0.0000
2	103.3350	0.0250	150.8265	1.5068	0.0035	0.0000
3	103.3600	0.0500	297.2970	7.0058	0.0068	0.0002
4	103.3850	0.0750	443.7675	16.2082	0.0102	0.0004
5	103.4100	0.1000	590.2380	29.0898	0.0135	0.0007
6	103.4350	0.1250	736.7085	45.6428	0.0169	0.0010
7	103.4600	0.1500	883.1790	65.8638	0.0203	0.0015
8	103.4850	0.1750	1029.6495	89.7507	0.0236	0.0021
9	103.5100	0.2000	1176.1200	117.3026	0.0270	0.0027
10	103.5350	0.2250	1475.5950	150.3783	0.0339	0.0035
11	103.5600	0.2500	1775.0700	190.9540	0.0408	0.0044
12	103.5850	0.2750	2074.5450	239.0256	0.0476	0.0055
13	103.6100	0.3000	2374.0200	294.5906	0.0545	0.0068
14	103.6350	0.3250	2673.4950	357.6475	0.0614	0.0082
15	103.6600	0.3500	2972.9700	428.1952	0.0683	0.0098
16	103.6850	0.3750	3272.4450	506.2330	0.0751	0.0116
17	103.7100	0.4000	3571.9200	591.7602	0.0820	0.0136
18	103.7225	0.4125	3773.3850	637.6626	0.0866	0.0146
19	103.7350	0.4250	3974.8500	686.0836	0.0912	0.0158
20	103.7475	0.4375	4176.3150	737.0232	0.0959	0.0169
21	103.7600	0.4500	4377.7800	790.4814	0.1005	0.0181
22	103.7725	0.4625	4579.2450	846.4581	0.1051	0.0194
23	103.7850	0.4750	4780.7100	904.9533	0.1098	0.0208
24	103.7975	0.4875	4982.1750	965.9670	0.1144	0.0222
25	103.8100	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	103.8225	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	103.8350	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	103.8475	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	103.8600	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	103.8725	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	103.8850	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	103.8975	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	103.9100	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	103.9225	0.6125	7900.6950	1761.8875	0.1814	0.0404
35	103.9350	0.6250	8265.5100	1862.9177	0.1897	0.0428
36	103.9475	0.6375	8630.3250	1968.5084	0.1981	0.0452
37	103.9600	0.6500	8995.1400	2078.6597	0.2065	0.0477
38	103.9725	0.6625	9359.9550	2193.3715	0.2149	0.0504
39	103.9850	0.6750	9724.7700	2312.6438	0.2233	0.0531
40	103.9975	0.6875	10089.5850	2436.4765	0.2316	0.0559
41	104.0100	0.7000	10454.4000	2564.8697	0.2400	0.0589
42	104.0350	0.7250	11287.4850	2836.5767	0.2591	0.0651
43	104.0600	0.7500	12120.5700	3129.1156	0.2782	0.0718
44	104.0850	0.7750	12953.6550	3442.4857	0.2974	0.0790
45	104.1100	0.8000	13786.7400	3776.6866	0.3165	0.0867
46	104.1350	0.8250	14619.8250	4131.7177	0.3356	0.0949
47	104.1600	0.8500	15452.9100	4507.5788	0.3548	0.1035
48	104.1850	0.8750	16285.9950	4904.2696	0.3739	0.1126
49	104.2100	0.9000	17119.0800	5321.7897	0.3930	0.1222
50	107.8100	4.5000	17119.0800	66950.4777	0.3930	1.5370

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| Variable storage data for node | CA-18
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	103.5200	0.0000	4.3560	0.0000	0.0001	0.0000
2	103.5450	0.0250	150.8265	1.5068	0.0035	0.0000
3	103.5700	0.0500	297.2970	7.0058	0.0068	0.0002
4	103.5950	0.0750	443.7675	16.2082	0.0102	0.0004
5	103.6200	0.1000	590.2380	29.0898	0.0135	0.0007
6	103.6450	0.1250	736.7085	45.6428	0.0169	0.0010
7	103.6700	0.1500	883.1790	65.8638	0.0203	0.0015
8	103.6950	0.1750	1029.6495	89.7507	0.0236	0.0021
9	103.7200	0.2000	1176.1200	117.3026	0.0270	0.0027
10	103.7450	0.2250	1475.5950	150.3783	0.0339	0.0035
11	103.7700	0.2500	1775.0700	190.9540	0.0408	0.0044
12	103.7950	0.2750	2074.5450	239.0256	0.0476	0.0055
13	103.8200	0.3000	2374.0200	294.5906	0.0545	0.0068
14	103.8450	0.3250	2673.4950	357.6475	0.0614	0.0082
15	103.8700	0.3500	2972.9700	428.1952	0.0683	0.0098
16	103.8950	0.3750	3272.4450	506.2330	0.0751	0.0116
17	103.9200	0.4000	3571.9200	591.7602	0.0820	0.0136
18	103.9325	0.4125	3773.3850	637.6626	0.0866	0.0146
19	103.9450	0.4250	3974.8500	686.0836	0.0912	0.0158
20	103.9575	0.4375	4176.3150	737.0232	0.0959	0.0169
21	103.9700	0.4500	4377.7800	790.4814	0.1005	0.0181
22	103.9825	0.4625	4579.2450	846.4581	0.1051	0.0194
23	103.9950	0.4750	4780.7100	904.9533	0.1098	0.0208
24	104.0075	0.4875	4982.1750	965.9670	0.1144	0.0222
25	104.0200	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	104.0325	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	104.0450	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	104.0575	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	104.0700	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	104.0825	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	104.0950	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	104.1075	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	104.1200	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	104.1325	0.6125	7900.6950	1761.8875	0.1814	0.0404
35	104.1450	0.6250	8265.5100	1862.9177	0.1897	0.0428
36	104.1575	0.6375	8630.3250	1968.5084	0.1981	0.0452
37	104.1700	0.6500	8995.1400	2078.6597	0.2065	0.0477
38	104.1825	0.6625	9359.9550	2193.3715	0.2149	0.0504
39	104.1950	0.6750	9724.7700	2312.6438	0.2233	0.0531
40	104.2075	0.6875	10089.5850	2436.4765	0.2316	0.0559
41	104.2200	0.7000	10454.4000	2564.8697	0.2400	0.0589
42	104.2450	0.7250	11287.4850	2836.5767	0.2591	0.0651
43	104.2700	0.7500	12120.5700	3129.1156	0.2782	0.0718
44	104.2950	0.7750	12953.6550	3442.4857	0.2974	0.0790
45	104.3200	0.8000	13786.7400	3776.6866	0.3165	0.0867
46	104.3450	0.8250	14619.8250	4131.7177	0.3356	0.0949
47	104.3700	0.8500	15452.9100	4507.5788	0.3548	0.1035
48	104.3950	0.8750	16285.9950	4904.2696	0.3739	0.1126
49	104.4200	0.9000	17119.0800	5321.7897	0.3930	0.1222
50	108.0200	4.5000	17119.0800	66950.4777	0.3930	1.5370

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| Variable storage data for node | CA-17
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	103.0600	0.0000	4.3560	0.0000	0.0001	0.0000
2	103.0850	0.0250	150.8265	1.5068	0.0035	0.0000
3	103.1100	0.0500	297.2970	7.0058	0.0068	0.0002
4	103.1350	0.0750	443.7675	16.2082	0.0102	0.0004
5	103.1600	0.1000	590.2380	29.0898	0.0135	0.0007
6	103.1850	0.1250	736.7085	45.6428	0.0169	0.0010
7	103.2100	0.1500	883.1790	65.8638	0.0203	0.0015
8	103.2350	0.1750	1029.6495	89.7507	0.0236	0.0021
9	103.2600	0.2000	1176.1200	117.3026	0.0270	0.0027
10	103.2850	0.2250	1475.5950	150.3783	0.0339	0.0035
11	103.3100	0.2500	1775.0700	190.9540	0.0408	0.0044
12	103.3350	0.2750	2074.5450	239.0256	0.0476	0.0055

13	103.3600	0.3000	2374.0200	294.5906	0.0545	0.0068
14	103.3850	0.3250	2673.4950	357.6475	0.0614	0.0082
15	103.4100	0.3500	2972.9700	428.1952	0.0683	0.0098
16	103.4350	0.3750	3272.4450	506.2330	0.0751	0.0116
17	103.4600	0.4000	3571.9200	591.7602	0.0820	0.0136
18	103.4725	0.4125	3773.3850	637.6626	0.0866	0.0146
19	103.4850	0.4250	3974.8500	686.0836	0.0912	0.0158
20	103.4975	0.4375	4176.3150	737.0232	0.0959	0.0169
21	103.5100	0.4500	4377.7800	790.4814	0.1005	0.0181
22	103.5225	0.4625	4579.2450	846.4581	0.1051	0.0194
23	103.5350	0.4750	4780.7100	904.9533	0.1098	0.0208
24	103.5475	0.4875	4982.1750	965.9670	0.1144	0.0222
25	103.5600	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	103.5725	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	103.5850	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	103.5975	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	103.6100	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	103.6225	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	103.6350	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	103.6475	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	103.6600	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	103.6725	0.6125	7900.6950	1761.8875	0.1814	0.0404
35	103.6850	0.6250	8265.5100	1862.9177	0.1897	0.0428
36	103.6975	0.6375	8630.3250	1968.5084	0.1981	0.0452
37	103.7100	0.6500	8995.1400	2078.6597	0.2065	0.0477
38	103.7225	0.6625	9359.9550	2193.3715	0.2149	0.0504
39	103.7350	0.6750	9724.7700	2312.6438	0.2233	0.0531
40	103.7475	0.6875	10089.5850	2436.4765	0.2316	0.0559
41	103.7600	0.7000	10454.4000	2564.8697	0.2400	0.0589
42	103.7850	0.7250	11287.4850	2836.5767	0.2591	0.0651
43	103.8100	0.7500	12120.5700	3129.1156	0.2782	0.0718
44	103.8350	0.7750	12953.6550	3442.4857	0.2974	0.0790
45	103.8600	0.8000	13786.7400	3776.6866	0.3165	0.0867
46	103.8850	0.8250	14619.8250	4131.7177	0.3356	0.0949
47	103.9100	0.8500	15452.9100	4507.5788	0.3548	0.1035
48	103.9350	0.8750	16285.9950	4904.2696	0.3739	0.1126
49	103.9600	0.9000	17119.0800	5321.7897	0.3930	0.1222
50	107.5600	4.5000	17119.0800	66950.4777	0.3930	1.5370

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| Variable storage data for node | CA-15
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	102.8300	0.0000	4.3560	0.0000	0.0001	0.0000
2	102.8550	0.0250	150.8265	1.5068	0.0035	0.0000
3	102.8800	0.0500	297.2970	7.0058	0.0068	0.0002
4	102.9050	0.0750	443.7675	16.2082	0.0102	0.0004
5	102.9300	0.1000	590.2380	29.0898	0.0135	0.0007
6	102.9550	0.1250	736.7085	45.6428	0.0169	0.0010
7	102.9800	0.1500	883.1790	65.8638	0.0203	0.0015
8	103.0050	0.1750	1029.6495	89.7507	0.0236	0.0021
9	103.0300	0.2000	1176.1200	117.3026	0.0270	0.0027
10	103.0550	0.2250	1475.5950	150.3783	0.0339	0.0035
11	103.0800	0.2500	1775.0700	190.9540	0.0408	0.0044
12	103.1050	0.2750	2074.5450	239.0256	0.0476	0.0055
13	103.1300	0.3000	2374.0200	294.5906	0.0545	0.0068
14	103.1550	0.3250	2673.4950	357.6475	0.0614	0.0082
15	103.1800	0.3500	2972.9700	428.1952	0.0683	0.0098
16	103.2050	0.3750	3272.4450	506.2330	0.0751	0.0116
17	103.2300	0.4000	3571.9200	591.7602	0.0820	0.0136
18	103.2425	0.4125	3773.3850	637.6626	0.0866	0.0146
19	103.2550	0.4250	3974.8500	686.0836	0.0912	0.0158
20	103.2675	0.4375	4176.3150	737.0232	0.0959	0.0169
21	103.2800	0.4500	4377.7800	790.4814	0.1005	0.0181
22	103.2925	0.4625	4579.2450	846.4581	0.1051	0.0194
23	103.3050	0.4750	4780.7100	904.9533	0.1098	0.0208
24	103.3175	0.4875	4982.1750	965.9670	0.1144	0.0222
25	103.3300	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	103.3425	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	103.3550	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	103.3675	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	103.3800	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	103.3925	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	103.4050	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	103.4175	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	103.4300	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	103.4425	0.6125	7900.6950	1761.8875	0.1814	0.0404
35	103.4550	0.6250	8265.5100	1862.9177	0.1897	0.0428
36	103.4675	0.6375	8630.3250	1968.5084	0.1981	0.0452
37	103.4800	0.6500	8995.1400	2078.6597	0.2065	0.0477
38	103.4925	0.6625	9359.9550	2193.3715	0.2149	0.0504
39	103.5050	0.6750	9724.7700	2312.6438	0.2233	0.0531
40	103.5175	0.6875	10089.5850	2436.4765	0.2316	0.0559
41	103.5300	0.7000	10454.4000	2564.8697	0.2400	0.0589
42	103.5550	0.7250	11287.4850	2836.5767	0.2591	0.0651
43	103.5800	0.7500	12120.5700	3129.1156	0.2782	0.0718
44	103.6050	0.7750	12953.6550	3442.4857	0.2974	0.0790
45	103.6300	0.8000	13786.7400	3776.6866	0.3165	0.0867
46	103.6550	0.8250	14619.8250	4131.7177	0.3356	0.0949
47	103.6800	0.8500	15452.9100	4507.5788	0.3548	0.1035
48	103.7050	0.8750	16285.9950	4904.2696	0.3739	0.1126
49	103.7300	0.9000	17119.0800	5321.7897	0.3930	0.1222
50	107.3300	4.5000	17119.0800	66950.4777	0.3930	1.5370

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| Variable storage data for node | CA-13
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	103.2500	0.0000	4.3560	0.0000	0.0001	0.0000
2	103.2750	0.0250	150.8265	1.5068	0.0035	0.0000
3	103.3000	0.0500	297.2970	7.0058	0.0068	0.0002
4	103.3250	0.0750	443.7675	16.2082	0.0102	0.0004
5	103.3500	0.1000	590.2380	29.0898	0.0135	0.0007
6	103.3750	0.1250	736.7085	45.6428	0.0169	0.0010
7	103.4000	0.1500	883.1790	65.8638	0.0203	0.0015
8	103.4250	0.1750	1029.6495	89.7507	0.0236	0.0021
9	103.4500	0.2000	1176.1200	117.3026	0.0270	0.0027
10	103.4750	0.2250	1475.5950	150.3783	0.0339	0.0035
11	103.5000	0.2500	1775.0700	190.9540	0.0408	0.0044
12	103.5250	0.2750	2074.5450	239.0256	0.0476	0.0055
13	103.5500	0.3000	2374.0200	294.5906	0.0545	0.0068
14	103.5750	0.3250	2673.4950	357.6475	0.0614	0.0082
15	103.6000	0.3500	2972.9700	428.1952	0.0683	0.0098
16	103.6250	0.3750	3272.4450	506.2330	0.0751	0.0116
17	103.6500	0.4000	3571.9200	591.7602	0.0820	0.0136
18	103.6625	0.4125	3773.3850	637.6626	0.0866	0.0146
19	103.6750	0.4250	3974.8500	686.0836	0.0912	0.0158
20	103.6875	0.4375	4176.3150	737.0232	0.0959	0.0169
21	103.7000	0.4500	4377.7800	790.4814	0.1005	0.0181
22	103.7125	0.4625	4579.2450	846.4581	0.1051	0.0194
23	103.7250	0.4750	4780.7100	904.9533	0.1098	0.0208
24	103.7375	0.4875	4982.1750	965.9670	0.1144	0.0222
25	103.7500	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	103.7625	0.5125	5477.6700	1096.1239	0.1258	0.0252

27	103.7750	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	103.7875	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	103.8000	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	103.8125	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	103.8250	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	103.8375	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	103.8500	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	103.8625	0.6125	7900.6950	1761.8875	0.1814	0.0404
35	103.8750	0.6250	8265.5100	1862.9177	0.1897	0.0428
36	103.8875	0.6375	8630.3250	1968.5084	0.1981	0.0452
37	103.9000	0.6500	8995.1400	2078.6597	0.2065	0.0477
38	103.9125	0.6625	9359.9550	2193.3715	0.2149	0.0504
39	103.9250	0.6750	9724.7700	2312.6438	0.2233	0.0531
40	103.9375	0.6875	10089.5850	2436.4765	0.2316	0.0559
41	103.9500	0.7000	10454.4000	2564.8697	0.2400	0.0589
42	103.9750	0.7250	11287.4850	2836.5767	0.2591	0.0651
43	104.0000	0.7500	12120.5700	3129.1156	0.2782	0.0718
44	104.0250	0.7750	12953.6550	3442.4857	0.2974	0.0790
45	104.0500	0.8000	13786.7400	3776.6866	0.3165	0.0867
46	104.0750	0.8250	14619.8250	4131.7177	0.3356	0.0949
47	104.1000	0.8500	15452.9100	4507.5788	0.3548	0.1035
48	104.1250	0.8750	16285.9950	4904.2696	0.3739	0.1126
49	104.1500	0.9000	17119.0800	5321.7897	0.3930	0.1222
50	107.7500	4.5000	17119.0800	66950.4777	0.3930	1.5370

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| Variable storage data for node | CA-12
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	103.2100	0.0000	4.3560	0.0000	0.0001	0.0000
2	103.2350	0.0250	150.8265	1.5068	0.0035	0.0000
3	103.2600	0.0500	297.2970	7.0058	0.0068	0.0002
4	103.2850	0.0750	443.7675	16.2082	0.0102	0.0004
5	103.3100	0.1000	590.2380	29.0898	0.0135	0.0007
6	103.3350	0.1250	736.7085	45.6428	0.0169	0.0010
7	103.3600	0.1500	883.1790	65.8638	0.0203	0.0015
8	103.3850	0.1750	1029.6495	89.7507	0.0236	0.0021
9	103.4100	0.2000	1176.1200	117.3026	0.0270	0.0027
10	103.4350	0.2250	1475.5950	150.3783	0.0339	0.0035
11	103.4600	0.2500	1775.0700	190.9540	0.0408	0.0044
12	103.4850	0.2750	2074.5450	239.0256	0.0476	0.0055
13	103.5100	0.3000	2374.0200	294.5906	0.0545	0.0068
14	103.5350	0.3250	2673.4950	357.6475	0.0614	0.0082
15	103.5600	0.3500	2972.9700	428.1952	0.0683	0.0098
16	103.5850	0.3750	3272.4450	506.2330	0.0751	0.0116
17	103.6100	0.4000	3571.9200	591.7602	0.0820	0.0136
18	103.6225	0.4125	3773.3850	637.6626	0.0866	0.0146
19	103.6350	0.4250	3974.8500	686.0836	0.0912	0.0158
20	103.6475	0.4375	4176.3150	737.0232	0.0959	0.0169
21	103.6600	0.4500	4377.7800	790.4814	0.1005	0.0181
22	103.6725	0.4625	4579.2450	846.4581	0.1051	0.0194
23	103.6850	0.4750	4780.7100	904.9533	0.1098	0.0208
24	103.6975	0.4875	4982.1750	965.9670	0.1144	0.0222
25	103.7100	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	103.7225	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	103.7350	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	103.7475	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	103.7600	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	103.7725	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	103.7850	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	103.7975	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	103.8100	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	103.8225	0.6125	7900.6950	1761.8875	0.1814	0.0404
35	103.8350	0.6250	8265.5100	1862.9177	0.1897	0.0428
36	103.8475	0.6375	8630.3250	1968.5084	0.1981	0.0452
37	103.8600	0.6500	8995.1400	2078.6597	0.2065	0.0477
38	103.8725	0.6625	9359.9550	2193.3715	0.2149	0.0504
39	103.8850	0.6750	9724.7700	2312.6438	0.2233	0.0531
40	103.8975	0.6875	10089.5850	2436.4765	0.2316	0.0559
41	103.9100	0.7000	10454.4000	2564.8697	0.2400	0.0589
42	103.9350	0.7250	11287.4850	2836.5767	0.2591	0.0651
43	103.9600	0.7500	12120.5700	3129.1156	0.2782	0.0718
44	103.9850	0.7750	12953.6550	3442.4857	0.2974	0.0790
45	104.0100	0.8000	13786.7400	3776.6866	0.3165	0.0867
46	104.0350	0.8250	14619.8250	4131.7177	0.3356	0.0949
47	104.0600	0.8500	15452.9100	4507.5788	0.3548	0.1035
48	104.0850	0.8750	16285.9950	4904.2696	0.3739	0.1126
49	104.1100	0.9000	17119.0800	5321.7897	0.3930	0.1222
50	107.7100	4.5000	17119.0800	66950.4777	0.3930	1.5370

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| Variable storage data for node | CA-11
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	102.9400	0.0000	4.3560	0.0000	0.0001	0.0000
2	102.9650	0.0250	150.8265	1.5068	0.0035	0.0000
3	102.9900	0.0500	297.2970	7.0058	0.0068	0.0002
4	103.0150	0.0750	443.7675	16.2082	0.0102	0.0004
5	103.0400	0.1000	590.2380	29.0898	0.0135	0.0007
6	103.0650	0.1250	736.7085	45.6428	0.0169	0.0010
7	103.0900	0.1500	883.1790	65.8638	0.0203	0.0015
8	103.1150	0.1750	1029.6495	89.7507	0.0236	0.0021
9	103.1400	0.2000	1176.1200	117.3026	0.0270	0.0027
10	103.1650	0.2250	1475.5950	150.3783	0.0339	0.0035
11	103.1900	0.2500	1775.0700	190.9540	0.0408	0.0044
12	103.2150	0.2750	2074.5450	239.0256	0.0476	0.0055
13	103.2400	0.3000	2374.0200	294.5906	0.0545	0.0068
14	103.2650	0.3250	2673.4950	357.6475	0.0614	0.0082
15	103.2900	0.3500	2972.9700	428.1952	0.0683	0.0098
16	103.3150	0.3750	3272.4450	506.2330	0.0751	0.0116
17	103.3400	0.4000	3571.9200	591.7602	0.0820	0.0136
18	103.3525	0.4125	3773.3850	637.6626	0.0866	0.0146
19	103.3650	0.4250	3974.8500	686.0836	0.0912	0.0158
20	103.3775	0.4375	4176.3150	737.0232	0.0959	0.0169
21	103.3900	0.4500	4377.7800	790.4814	0.1005	0.0181
22	103.4025	0.4625	4579.2450	846.4581	0.1051	0.0194
23	103.4150	0.4750	4780.7100	904.9533	0.1098	0.0208
24	103.4275	0.4875	4982.1750	965.9670	0.1144	0.0222
25	103.4400	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	103.4525	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	103.4650	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	103.4775	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	103.4900	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	103.5025	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	103.5150	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	103.5275	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	103.5400	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	103.5525	0.6125	7900.6950	1761.8875	0.1814	0.0404
35	103.5650	0.6250	8265.5100	1862.9177	0.1897	0.0428
36	103.5775	0.6375	8630.3250	1968.5084	0.1981	0.0452
37	103.5900	0.6500	8995.1400	2078.6597	0.2065	0.0477
38	103.6025	0.6625	9359.9550	2193.3715	0.2149	0.0504
39	103.6150	0.6750	9724.7700	2312.6438	0.2233	0.0531
40	103.6275	0.6875	10089.5850	2436.4765	0.2316	0.0559

41	103.6400	0.7000	10454.4000	2564.8697	0.2400	0.0589
42	103.6650	0.7250	11287.4850	2836.5767	0.2591	0.0651
43	103.6900	0.7500	12120.5700	3129.1156	0.2782	0.0718
44	103.7150	0.7750	12953.6550	3442.4857	0.2974	0.0790
45	103.7400	0.8000	13786.7400	3776.6866	0.3165	0.0867
46	103.7650	0.8250	14619.8250	4131.7177	0.3356	0.0949
47	103.7900	0.8500	15452.9100	4507.5788	0.3548	0.1035
48	103.8150	0.8750	16285.9950	4904.2696	0.3739	0.1126
49	103.8400	0.9000	17119.0800	5321.7897	0.3930	0.1222
50	107.4400	4.5000	17119.0800	66950.4777	0.3930	1.5370

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| Variable storage data for node | CB-11
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	103.9900	0.0000	4.3560	0.0000	0.0001	0.0000
2	104.0150	0.0250	150.8265	1.5068	0.0035	0.0000
3	104.0400	0.0500	297.2970	7.0058	0.0068	0.0002
4	104.0650	0.0750	443.7675	16.2082	0.0102	0.0004
5	104.0900	0.1000	590.2380	29.0898	0.0135	0.0007
6	104.1150	0.1250	736.7085	45.6428	0.0169	0.0010
7	104.1400	0.1500	883.1790	65.8638	0.0203	0.0015
8	104.1650	0.1750	1029.6495	89.7507	0.0236	0.0021
9	104.1900	0.2000	1176.1200	117.3026	0.0270	0.0027
10	104.2150	0.2250	1475.5950	150.3783	0.0339	0.0035
11	104.2400	0.2500	1775.0700	190.9540	0.0408	0.0044
12	104.2650	0.2750	2074.5450	239.0256	0.0476	0.0055
13	104.2900	0.3000	2374.0200	294.5906	0.0545	0.0068
14	104.3150	0.3250	2673.4950	357.6475	0.0614	0.0082
15	104.3400	0.3500	2972.9700	428.1952	0.0683	0.0098
16	104.3650	0.3750	3272.4450	506.2330	0.0751	0.0116
17	104.3900	0.4000	3571.9200	591.7602	0.0820	0.0136
18	104.4025	0.4125	3773.3850	637.6626	0.0866	0.0146
19	104.4150	0.4250	3974.8500	686.0836	0.0912	0.0158
20	104.4275	0.4375	4176.3150	737.0232	0.0959	0.0169
21	104.4400	0.4500	4377.7800	790.4814	0.1005	0.0181
22	104.4525	0.4625	4579.2450	846.4581	0.1051	0.0194
23	104.4650	0.4750	4780.7100	904.9533	0.1098	0.0208
24	104.4775	0.4875	4982.1750	965.9670	0.1144	0.0222
25	104.4900	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	104.5025	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	104.5150	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	104.5275	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	104.5400	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	104.5525	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	104.5650	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	104.5775	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	104.5900	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	104.6025	0.6125	7900.6950	1761.8875	0.1814	0.0404
35	104.6150	0.6250	8265.5100	1862.9177	0.1897	0.0428
36	104.6275	0.6375	8630.3250	1968.5084	0.1981	0.0452
37	104.6400	0.6500	8995.1400	2078.6597	0.2065	0.0477
38	104.6525	0.6625	9359.9550	2193.3715	0.2149	0.0504
39	104.6650	0.6750	9724.7700	2312.6438	0.2233	0.0531
40	104.6775	0.6875	10089.5850	2436.4765	0.2316	0.0559
41	104.6900	0.7000	10454.4000	2564.8697	0.2400	0.0589
42	104.7150	0.7250	11287.4850	2836.5767	0.2591	0.0651
43	104.7400	0.7500	12120.5700	3129.1156	0.2782	0.0718
44	104.7650	0.7750	12953.6550	3442.4857	0.2974	0.0790
45	104.7900	0.8000	13786.7400	3776.6866	0.3165	0.0867
46	104.8150	0.8250	14619.8250	4131.7177	0.3356	0.0949
47	104.8400	0.8500	15452.9100	4507.5788	0.3548	0.1035
48	104.8650	0.8750	16285.9950	4904.2696	0.3739	0.1126
49	104.8900	0.9000	17119.0800	5321.7897	0.3930	0.1222
50	108.9900	5.0000	17119.0800	75510.0177	0.3930	1.7335

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| Variable storage data for node | CB-15
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	103.9900	0.0000	4.3560	0.0000	0.0001	0.0000
2	104.0150	0.0250	150.8265	1.5068	0.0035	0.0000
3	104.0400	0.0500	297.2970	7.0058	0.0068	0.0002
4	104.0650	0.0750	443.7675	16.2082	0.0102	0.0004
5	104.0900	0.1000	590.2380	29.0898	0.0135	0.0007
6	104.1150	0.1250	736.7085	45.6428	0.0169	0.0010
7	104.1400	0.1500	883.1790	65.8638	0.0203	0.0015
8	104.1650	0.1750	1029.6495	89.7507	0.0236	0.0021
9	104.1900	0.2000	1176.1200	117.3026	0.0270	0.0027
10	104.2150	0.2250	1475.5950	150.3783	0.0339	0.0035
11	104.2400	0.2500	1775.0700	190.9540	0.0408	0.0044
12	104.2650	0.2750	2074.5450	239.0256	0.0476	0.0055
13	104.2900	0.3000	2374.0200	294.5906	0.0545	0.0068
14	104.3150	0.3250	2673.4950	357.6475	0.0614	0.0082
15	104.3400	0.3500	2972.9700	428.1952	0.0683	0.0098
16	104.3650	0.3750	3272.4450	506.2330	0.0751	0.0116
17	104.3900	0.4000	3571.9200	591.7602	0.0820	0.0136
18	104.4025	0.4125	3773.3850	637.6626	0.0866	0.0146
19	104.4150	0.4250	3974.8500	686.0836	0.0912	0.0158
20	104.4275	0.4375	4176.3150	737.0232	0.0959	0.0169
21	104.4400	0.4500	4377.7800	790.4814	0.1005	0.0181
22	104.4525	0.4625	4579.2450	846.4581	0.1051	0.0194
23	104.4650	0.4750	4780.7100	904.9533	0.1098	0.0208
24	104.4775	0.4875	4982.1750	965.9670	0.1144	0.0222
25	104.4900	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	104.5025	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	104.5150	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	104.5275	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	104.5400	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	104.5525	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	104.5650	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	104.5775	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	104.5900	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	104.6025	0.6125	7900.6950	1761.8875	0.1814	0.0404
35	104.6150	0.6250	8265.5100	1862.9177	0.1897	0.0428
36	104.6275	0.6375	8630.3250	1968.5084	0.1981	0.0452
37	104.6400	0.6500	8995.1400	2078.6597	0.2065	0.0477
38	104.6525	0.6625	9359.9550	2193.3715	0.2149	0.0504
39	104.6650	0.6750	9724.7700	2312.6438	0.2233	0.0531
40	104.6775	0.6875	10089.5850	2436.4765	0.2316	0.0559
41	104.6900	0.7000	10454.4000	2564.8697	0.2400	0.0589
42	104.7150	0.7250	11287.4850	2836.5767	0.2591	0.0651
43	104.7400	0.7500	12120.5700	3129.1156	0.2782	0.0718
44	104.7650	0.7750	12953.6550	3442.4857	0.2974	0.0790
45	104.7900	0.8000	13786.7400	3776.6866	0.3165	0.0867
46	104.8150	0.8250	14619.8250	4131.7177	0.3356	0.0949
47	104.8400	0.8500	15452.9100	4507.5788	0.3548	0.1035
48	104.8650	0.8750	16285.9950	4904.2696	0.3739	0.1126
49	104.8900	0.9000	17119.0800	5321.7897	0.3930	0.1222
50	109.0000	5.0100	17119.0800	75681.2085	0.3930	1.7374

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| Variable storage data for node | CB-17
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	104.1100	0.0000	4.3560	0.0000	0.0001	0.0000
2	104.1350	0.0250	150.8265	1.5068	0.0035	0.0000
3	104.1600	0.0500	297.2970	7.0058	0.0068	0.0002
4	104.1850	0.0750	443.7675	16.2082	0.0102	0.0004
5	104.2100	0.1000	590.2380	29.0898	0.0135	0.0007
6	104.2350	0.1250	736.7085	45.6428	0.0169	0.0010
7	104.2600	0.1500	883.1790	65.8638	0.0203	0.0015
8	104.2850	0.1750	1029.6495	89.7507	0.0236	0.0021
9	104.3100	0.2000	1176.1200	117.3026	0.0270	0.0027
10	104.3350	0.2250	1475.5950	150.3783	0.0339	0.0035
11	104.3600	0.2500	1775.0700	190.9540	0.0408	0.0044
12	104.3850	0.2750	2074.5450	239.0256	0.0476	0.0055
13	104.4100	0.3000	2374.0200	294.5906	0.0545	0.0068
14	104.4350	0.3250	2673.4950	357.6475	0.0614	0.0082
15	104.4600	0.3500	2972.9700	428.1952	0.0683	0.0098
16	104.4850	0.3750	3272.4450	506.2330	0.0751	0.0116
17	104.5100	0.4000	3571.9200	591.7602	0.0820	0.0136
18	104.5225	0.4125	3773.3850	637.6626	0.0866	0.0146
19	104.5350	0.4250	3974.8500	686.0836	0.0912	0.0158
20	104.5475	0.4375	4176.3150	737.0232	0.0959	0.0169
21	104.5600	0.4500	4377.7800	790.4814	0.1005	0.0181
22	104.5725	0.4625	4579.2450	846.4581	0.1051	0.0194
23	104.5850	0.4750	4780.7100	904.9533	0.1098	0.0208
24	104.5975	0.4875	4982.1750	965.9670	0.1144	0.0222
25	104.6100	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	104.6225	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	104.6350	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	104.6475	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	104.6600	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	104.6725	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	104.6850	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	104.6975	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	104.7100	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	104.7225	0.6125	7900.6950	1761.8875	0.1814	0.0404
35	104.7350	0.6250	8265.5100	1862.9177	0.1897	0.0428
36	104.7475	0.6375	8630.3250	1968.5084	0.1981	0.0452
37	104.7600	0.6500	8995.1400	2078.6597	0.2065	0.0477
38	104.7725	0.6625	9359.9550	2193.3715	0.2149	0.0504
39	104.7850	0.6750	9724.7700	2312.6438	0.2233	0.0531
40	104.7975	0.6875	10089.5850	2436.4765	0.2316	0.0559
41	104.8100	0.7000	10454.4000	2564.8697	0.2400	0.0589
42	104.8350	0.7250	11287.4850	2836.5767	0.2591	0.0651
43	104.8600	0.7500	12120.5700	3129.1156	0.2782	0.0718
44	104.8850	0.7750	12953.6550	3442.4857	0.2974	0.0790
45	104.9100	0.8000	13786.7400	3776.6866	0.3165	0.0867
46	104.9350	0.8250	14619.8250	4131.7177	0.3356	0.0949
47	104.9600	0.8500	15452.9100	4507.5788	0.3548	0.1035
48	104.9850	0.8750	16285.9950	4904.2696	0.3739	0.1126
49	105.0100	0.9000	17119.0800	5321.7897	0.3930	0.1222
50	109.1100	5.0000	17119.0800	75510.0177	0.3930	1.7335

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| Variable storage data for node | CP-4
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	107.0500	0.0000	4.3560	0.0000	0.0001	0.0000
2	107.0750	0.0250	150.8265	1.5068	0.0035	0.0000
3	107.1000	0.0500	297.2970	7.0058	0.0068	0.0002
4	107.1250	0.0750	443.7675	16.2082	0.0102	0.0004
5	107.1500	0.1000	590.2380	29.0898	0.0135	0.0007
6	107.1750	0.1250	736.7085	45.6428	0.0169	0.0010
7	107.2000	0.1500	883.1790	65.8638	0.0203	0.0015
8	107.2250	0.1750	1029.6495	89.7507	0.0236	0.0021
9	107.2500	0.2000	1176.1200	117.3026	0.0270	0.0027
10	107.2750	0.2250	1475.5950	150.3783	0.0339	0.0035
11	107.3000	0.2500	1775.0700	190.9540	0.0408	0.0044
12	107.3250	0.2750	2074.5450	239.0256	0.0476	0.0055
13	107.3500	0.3000	2374.0200	294.5906	0.0545	0.0068
14	107.3750	0.3250	2673.4950	357.6475	0.0614	0.0082
15	107.4000	0.3500	2972.9700	428.1952	0.0683	0.0098
16	107.4250	0.3750	3272.4450	506.2330	0.0751	0.0116
17	107.4500	0.4000	3571.9200	591.7602	0.0820	0.0136
18	107.4625	0.4125	3773.3850	637.6626	0.0866	0.0146
19	107.4750	0.4250	3974.8500	686.0836	0.0912	0.0158
20	107.4875	0.4375	4176.3150	737.0232	0.0959	0.0169
21	107.5000	0.4500	4377.7800	790.4814	0.1005	0.0181
22	107.5125	0.4625	4579.2450	846.4581	0.1051	0.0194
23	107.5250	0.4750	4780.7100	904.9533	0.1098	0.0208
24	107.5375	0.4875	4982.1750	965.9670	0.1144	0.0222
25	107.5500	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	107.5625	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	107.5750	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	107.5875	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	107.6000	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	107.6125	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	107.6250	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	107.6375	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	107.6500	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	107.6625	0.6125	7900.6950	1761.8875	0.1814	0.0404
35	107.6750	0.6250	8265.5100	1862.9177	0.1897	0.0428
36	107.6875	0.6375	8630.3250	1968.5084	0.1981	0.0452
37	107.7000	0.6500	8995.1400	2078.6597	0.2065	0.0477
38	107.7125	0.6625	9359.9550	2193.3715	0.2149	0.0504
39	107.7250	0.6750	9724.7700	2312.6438	0.2233	0.0531
40	107.7375	0.6875	10089.5850	2436.4765	0.2316	0.0559
41	107.7500	0.7000	10454.4000	2564.8697	0.2400	0.0589
42	107.7750	0.7250	11287.4850	2836.5767	0.2591	0.0651
43	107.8000	0.7500	12120.5700	3129.1156	0.2782	0.0718
44	107.8250	0.7750	12953.6550	3442.4857	0.2974	0.0790
45	107.8500	0.8000	13786.7400	3776.6866	0.3165	0.0867
46	107.8750	0.8250	14619.8250	4131.7177	0.3356	0.0949
47	107.9000	0.8500	15452.9100	4507.5788	0.3548	0.1035
48	107.9250	0.8750	16285.9950	4904.2696	0.3739	0.1126
49	107.9500	0.9000	17119.0800	5321.7897	0.3930	0.1222
50	111.7800	4.7300	17119.0800	70887.8661	0.3930	1.6274

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| Variable storage data for node | CP-6
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	109.0000	0.0000	4.3560	0.0000	0.0001	0.0000
2	109.0250	0.0250	150.8265	1.5068	0.0035	0.0000
3	109.0500	0.0500	297.2970	7.0058	0.0068	0.0002
4	109.0750	0.0750	443.7675	16.2082	0.0102	0.0004
5	109.1000	0.1000	590.2380	29.0898	0.0135	0.0007
6	109.1250	0.1250	736.7085	45.6428	0.0169	0.0010
7	109.1500	0.1500	883.1790	65.8638	0.0203	0.0015
8	109.1750	0.1750	1029.6495	89.7507	0.0236	0.0021
9	109.2000	0.2000	1176.1200	117.3026	0.0270	0.0027
10	109.2250	0.2250	1475.5950	150.3783	0.0339	0.0035
11	109.2500	0.2500	1775.0700	190.9540	0.0408	0.0044

12	109.2750	0.2750	2074.5450	239.0256	0.0476	0.0055
13	109.3000	0.3000	2374.0200	294.5906	0.0545	0.0068
14	109.3250	0.3250	2673.4950	357.6475	0.0614	0.0082
15	109.3500	0.3500	2972.9700	428.1952	0.0683	0.0098
16	109.3750	0.3750	3272.4450	506.2330	0.0751	0.0116
17	109.4000	0.4000	3571.9200	591.7602	0.0820	0.0136
18	109.4125	0.4125	3773.3850	637.6626	0.0866	0.0146
19	109.4250	0.4250	3974.8500	686.0836	0.0912	0.0158
20	109.4375	0.4375	4176.3150	737.0232	0.0959	0.0169
21	109.4500	0.4500	4377.7800	790.4814	0.1005	0.0181
22	109.4625	0.4625	4579.2450	846.4581	0.1051	0.0194
23	109.4750	0.4750	4780.7100	904.9533	0.1098	0.0208
24	109.4875	0.4875	4982.1750	965.9670	0.1144	0.0222
25	109.5000	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	109.5125	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	109.5250	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	109.5375	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	109.5500	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	109.5625	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	109.5750	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	109.5875	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	109.6000	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	109.6125	0.6125	7900.6950	1761.8875	0.1814	0.0404
35	109.6250	0.6250	8265.5100	1862.9177	0.1897	0.0428
36	109.6375	0.6375	8630.3250	1968.5084	0.1981	0.0452
37	109.6500	0.6500	8995.1400	2078.6597	0.2065	0.0477
38	109.6625	0.6625	9359.9550	2193.3715	0.2149	0.0504
39	109.6750	0.6750	9724.7700	2312.6438	0.2233	0.0531
40	109.6875	0.6875	10089.5850	2436.4765	0.2316	0.0559
41	109.7000	0.7000	10454.4000	2564.8697	0.2400	0.0589
42	109.7250	0.7250	11287.4850	2836.5767	0.2591	0.0651
43	109.7500	0.7500	12120.5700	3129.1156	0.2782	0.0718
44	109.7750	0.7750	12953.6550	3442.4857	0.2974	0.0790
45	109.8000	0.8000	13786.7400	3776.6866	0.3165	0.0867
46	109.8250	0.8250	14619.8250	4131.7177	0.3356	0.0949
47	109.8500	0.8500	15452.9100	4507.5788	0.3548	0.1035
48	109.8750	0.8750	16285.9950	4904.2696	0.3739	0.1126
49	109.9000	0.9000	17119.0800	5321.7897	0.3930	0.1222
50	112.3000	3.3000	17119.0800	46407.5817	0.3930	1.0654

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| Variable storage data for node | CQ-10
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	108.5500	0.0000	4.3560	0.0000	0.0001	0.0000
2	108.5750	0.0250	150.8265	1.5068	0.0035	0.0000
3	108.6000	0.0500	297.2970	7.0058	0.0068	0.0002
4	108.6250	0.0750	443.7675	16.2082	0.0102	0.0004
5	108.6500	0.1000	590.2380	29.0898	0.0135	0.0007
6	108.6750	0.1250	736.7085	45.6428	0.0169	0.0010
7	108.7000	0.1500	883.1790	65.8638	0.0203	0.0015
8	108.7250	0.1750	1029.6495	89.7507	0.0236	0.0021
9	108.7500	0.2000	1176.1200	117.3026	0.0270	0.0027
10	108.7750	0.2250	1475.5950	150.3783	0.0339	0.0035
11	108.8000	0.2500	1775.0700	190.9540	0.0408	0.0044
12	108.8250	0.2750	2074.5450	239.0256	0.0476	0.0055
13	108.8500	0.3000	2374.0200	294.5906	0.0545	0.0068
14	108.8750	0.3250	2673.4950	357.6475	0.0614	0.0082
15	108.9000	0.3500	2972.9700	428.1952	0.0683	0.0098
16	108.9250	0.3750	3272.4450	506.2330	0.0751	0.0116
17	108.9500	0.4000	3571.9200	591.7602	0.0820	0.0136
18	108.9625	0.4125	3773.3850	637.6626	0.0866	0.0146
19	108.9750	0.4250	3974.8500	686.0836	0.0912	0.0158
20	108.9875	0.4375	4176.3150	737.0232	0.0959	0.0169
21	109.0000	0.4500	4377.7800	790.4814	0.1005	0.0181
22	109.0125	0.4625	4579.2450	846.4581	0.1051	0.0194
23	109.0250	0.4750	4780.7100	904.9533	0.1098	0.0208
24	109.0375	0.4875	4982.1750	965.9670	0.1144	0.0222
25	109.0500	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	109.0625	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	109.0750	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	109.0875	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	109.1000	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	109.1125	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	109.1250	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	109.1375	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	109.1500	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	109.1625	0.6125	7900.6950	1761.8875	0.1814	0.0404
35	109.1750	0.6250	8265.5100	1862.9177	0.1897	0.0428
36	109.1875	0.6375	8630.3250	1968.5084	0.1981	0.0452
37	109.2000	0.6500	8995.1400	2078.6597	0.2065	0.0477
38	109.2125	0.6625	9359.9550	2193.3715	0.2149	0.0504
39	109.2250	0.6750	9724.7700	2312.6438	0.2233	0.0531
40	109.2375	0.6875	10089.5850	2436.4765	0.2316	0.0559
41	109.2500	0.7000	10454.4000	2564.8697	0.2400	0.0589
42	109.2750	0.7250	11287.4850	2836.5767	0.2591	0.0651
43	109.3000	0.7500	12120.5700	3129.1156	0.2782	0.0718
44	109.3250	0.7750	12953.6550	3442.4857	0.2974	0.0790
45	109.3500	0.8000	13786.7400	3776.6866	0.3165	0.0867
46	109.3750	0.8250	14619.8250	4131.7177	0.3356	0.0949
47	109.4000	0.8500	15452.9100	4507.5788	0.3548	0.1035
48	109.4250	0.8750	16285.9950	4904.2696	0.3739	0.1126
49	109.4500	0.9000	17119.0800	5321.7897	0.3930	0.1222
50	110.6500	2.1000	17119.0800	25864.6857	0.3930	0.5938

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| Variable storage data for node | CO-1
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	110.7000	0.0000	4.3560	0.0000	0.0001	0.0000
2	110.7250	0.0250	150.8265	1.5068	0.0035	0.0000
3	110.7500	0.0500	297.2970	7.0058	0.0068	0.0002
4	110.7750	0.0750	443.7675	16.2082	0.0102	0.0004
5	110.8000	0.1000	590.2380	29.0898	0.0135	0.0007
6	110.8250	0.1250	736.7085	45.6428	0.0169	0.0010
7	110.8500	0.1500	883.1790	65.8638	0.0203	0.0015
8	110.8750	0.1750	1029.6495	89.7507	0.0236	0.0021
9	110.9000	0.2000	1176.1200	117.3026	0.0270	0.0027
10	110.9250	0.2250	1475.5950	150.3783	0.0339	0.0035
11	110.9500	0.2500	1775.0700	190.9540	0.0408	0.0044
12	110.9750	0.2750	2074.5450	239.0256	0.0476	0.0055
13	111.0000	0.3000	2374.0200	294.5906	0.0545	0.0068
14	111.0250	0.3250	2673.4950	357.6475	0.0614	0.0082
15	111.0500	0.3500	2972.9700	428.1952	0.0683	0.0098
16	111.0750	0.3750	3272.4450	506.2330	0.0751	0.0116
17	111.1000	0.4000	3571.9200	591.7602	0.0820	0.0136
18	111.1125	0.4125	3773.3850	637.6626	0.0866	0.0146
19	111.1250	0.4250	3974.8500	686.0836	0.0912	0.0158
20	111.1375	0.4375	4176.3150	737.0232	0.0959	0.0169
21	111.1500	0.4500	4377.7800	790.4814	0.1005	0.0181
22	111.1625	0.4625	4579.2450	846.4581	0.1051	0.0194
23	111.1750	0.4750	4780.7100	904.9533	0.1098	0.0208
24	111.1875	0.4875	4982.1750	965.9670	0.1144	0.0222
25	111.2000	0.5000	5183.6400	1029.4991	0.1190	0.0236

26	111.2125	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	111.2250	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	111.2375	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	111.2500	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	111.2625	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	111.2750	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	111.2875	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	111.3000	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	111.3125	0.6125	7900.6950	1761.8875	0.1814	0.0404
35	111.3250	0.6250	8265.5100	1862.9177	0.1897	0.0428
36	111.3375	0.6375	8630.3250	1968.5084	0.1981	0.0452
37	111.3500	0.6500	8995.1400	2078.6597	0.2065	0.0477
38	111.3625	0.6625	9359.9550	2193.3715	0.2149	0.0504
39	111.3750	0.6750	9724.7700	2312.6438	0.2233	0.0531
40	111.3875	0.6875	10089.5850	2436.4765	0.2316	0.0559
41	111.4000	0.7000	10454.4000	2564.8697	0.2400	0.0589
42	111.4250	0.7250	11287.4850	2836.5767	0.2591	0.0651
43	111.4500	0.7500	12120.5700	3129.1156	0.2782	0.0718
44	111.4750	0.7750	12953.6550	3442.4857	0.2974	0.0790
45	111.5000	0.8000	13786.7400	3776.6866	0.3165	0.0867
46	111.5250	0.8250	14619.8250	4131.7177	0.3356	0.0949
47	111.5500	0.8500	15452.9100	4507.5788	0.3548	0.1035
48	111.5750	0.8750	16285.9950	4904.2696	0.3739	0.1126
49	111.6000	0.9000	17119.0800	5321.7897	0.3930	0.1222
50	114.3000	3.6000	17119.0800	51543.3057	0.3930	1.1833

Variable storage data for node | CO-5						
Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	108.5000	0.0000	4.3560	0.0000	0.0001	0.0000
2	108.5250	0.0250	150.8265	1.5068	0.0035	0.0000
3	108.5500	0.0500	297.2970	7.0058	0.0068	0.0002
4	108.5750	0.0750	443.7675	16.2082	0.0102	0.0004
5	108.6000	0.1000	590.2380	29.0898	0.0135	0.0007
6	108.6250	0.1250	736.7085	45.6428	0.0169	0.0010
7	108.6500	0.1500	883.1790	65.8638	0.0203	0.0015
8	108.6750	0.1750	1029.6495	89.7507	0.0236	0.0021
9	108.7000	0.2000	1176.1200	117.3026	0.0270	0.0027
10	108.7250	0.2250	1475.5950	150.3783	0.0339	0.0035
11	108.7500	0.2500	1775.0700	190.9540	0.0408	0.0044
12	108.7750	0.2750	2074.5450	239.0256	0.0476	0.0055
13	108.8000	0.3000	2374.0200	294.5906	0.0545	0.0068
14	108.8250	0.3250	2673.4950	357.6475	0.0614	0.0082
15	108.8500	0.3500	2972.9700	428.1952	0.0683	0.0098
16	108.8750	0.3750	3272.4450	506.2330	0.0751	0.0116
17	108.9000	0.4000	3571.9200	591.7602	0.0820	0.0136
18	108.9125	0.4125	3773.3850	637.6626	0.0866	0.0146
19	108.9250	0.4250	3974.8500	686.0836	0.0912	0.0158
20	108.9375	0.4375	4176.3150	737.0232	0.0959	0.0169
21	108.9500	0.4500	4377.7800	790.4814	0.1005	0.0181
22	108.9625	0.4625	4579.2450	846.4581	0.1051	0.0194
23	108.9750	0.4750	4780.7100	904.9533	0.1098	0.0208
24	108.9875	0.4875	4982.1750	965.9670	0.1144	0.0222
25	109.0000	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	109.0125	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	109.0250	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	109.0375	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	109.0500	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	109.0625	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	109.0750	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	109.0875	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	109.1000	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	109.1125	0.6125	7900.6950	1761.8875	0.1814	0.0404
35	109.1250	0.6250	8265.5100	1862.9177	0.1897	0.0428
36	109.1375	0.6375	8630.3250	1968.5084	0.1981	0.0452
37	109.1500	0.6500	8995.1400	2078.6597	0.2065	0.0477
38	109.1625	0.6625	9359.9550	2193.3715	0.2149	0.0504
39	109.1750	0.6750	9724.7700	2312.6438	0.2233	0.0531
40	109.1875	0.6875	10089.5850	2436.4765	0.2316	0.0559
41	109.2000	0.7000	10454.4000	2564.8697	0.2400	0.0589
42	109.2250	0.7250	11287.4850	2836.5767	0.2591	0.0651
43	109.2500	0.7500	12120.5700	3129.1156	0.2782	0.0718
44	109.2750	0.7750	12953.6550	3442.4857	0.2974	0.0790
45	109.3000	0.8000	13786.7400	3776.6866	0.3165	0.0867
46	109.3250	0.8250	14619.8250	4131.7177	0.3356	0.0949
47	109.3500	0.8500	15452.9100	4507.5788	0.3548	0.1035
48	109.3750	0.8750	16285.9950	4904.2696	0.3739	0.1126
49	109.4000	0.9000	17119.0800	5321.7897	0.3930	0.1222
50	114.0400	5.5400	17119.0800	84754.3209	0.3930	1.9457

Variable storage data for node | CR-8						
Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	105.7700	0.0000	4.3560	0.0000	0.0001	0.0000
2	105.7950	0.0250	150.8265	1.5068	0.0035	0.0000
3	105.8200	0.0500	297.2970	7.0058	0.0068	0.0002
4	105.8450	0.0750	443.7675	16.2082	0.0102	0.0004
5	105.8700	0.1000	590.2380	29.0898	0.0135	0.0007
6	105.8950	0.1250	736.7085	45.6428	0.0169	0.0010
7	105.9200	0.1500	883.1790	65.8638	0.0203	0.0015
8	105.9450	0.1750	1029.6495	89.7507	0.0236	0.0021
9	105.9700	0.2000	1176.1200	117.3026	0.0270	0.0027
10	105.9950	0.2250	1475.5950	150.3783	0.0339	0.0035
11	106.0200	0.2500	1775.0700	190.9540	0.0408	0.0044
12	106.0450	0.2750	2074.5450	239.0256	0.0476	0.0055
13	106.0700	0.3000	2374.0200	294.5906	0.0545	0.0068
14	106.0950	0.3250	2673.4950	357.6475	0.0614	0.0082
15	106.1200	0.3500	2972.9700	428.1952	0.0683	0.0098
16	106.1450	0.3750	3272.4450	506.2330	0.0751	0.0116
17	106.1700	0.4000	3571.9200	591.7602	0.0820	0.0136
18	106.1825	0.4125	3773.3850	637.6626	0.0866	0.0146
19	106.1950	0.4250	3974.8500	686.0836	0.0912	0.0158
20	106.2075	0.4375	4176.3150	737.0232	0.0959	0.0169
21	106.2200	0.4500	4377.7800	790.4814	0.1005	0.0181
22	106.2325	0.4625	4579.2450	846.4581	0.1051	0.0194
23	106.2450	0.4750	4780.7100	904.9533	0.1098	0.0208
24	106.2575	0.4875	4982.1750	965.9670	0.1144	0.0222
25	106.2700	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	106.2825	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	106.2950	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	106.3075	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	106.3200	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	106.3325	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	106.3450	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	106.3575	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	106.3700	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	106.3825	0.6125	7900.6950	1761.8875	0.1814	0.0404
35	106.3950	0.6250	8265.5100	1862.9177	0.1897	0.0428
36	106.4075	0.6375	8630.3250	1968.5084	0.1981	0.0452
37	106.4200	0.6500	8995.1400	2078.6597	0.2065	0.0477
38	106.4325	0.6625	9359.9550	2193.3715	0.2149	0.0504
39	106.4450	0.6750	9724.7700	2312.6438	0.2233	0.0531

40	106.4575	0.6875	10089.5850	2436.4765	0.2316	0.0559
41	106.4700	0.7000	10454.4000	2564.8697	0.2400	0.0589
42	106.4950	0.7250	11287.4850	2836.5767	0.2591	0.0651
43	106.5200	0.7500	12120.5700	3129.1156	0.2782	0.0718
44	106.5450	0.7750	12953.6550	3442.4857	0.2974	0.0790
45	106.5700	0.8000	13786.7400	3776.6866	0.3165	0.0867
46	106.5950	0.8250	14619.8250	4131.7177	0.3356	0.0949
47	106.6200	0.8500	15452.9100	4507.5788	0.3548	0.1035
48	106.6450	0.8750	16285.9950	4904.2696	0.3739	0.1126
49	106.6700	0.9000	17119.0800	5321.7897	0.3930	0.1222
50	108.8300	3.0600	17119.0800	42299.0025	0.3930	0.9711

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| Variable storage data for node | CR-6
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	103.9400	0.0000	4.3560	0.0000	0.0001	0.0000
2	103.9650	0.0250	150.8265	1.5068	0.0035	0.0000
3	103.9900	0.0500	297.2970	7.0058	0.0068	0.0002
4	104.0150	0.0750	443.7675	16.2082	0.0102	0.0004
5	104.0400	0.1000	590.2380	29.0898	0.0135	0.0007
6	104.0650	0.1250	736.7085	45.6428	0.0169	0.0010
7	104.0900	0.1500	883.1790	65.8638	0.0203	0.0015
8	104.1150	0.1750	1029.6495	89.7507	0.0236	0.0021
9	104.1400	0.2000	1176.1200	117.3026	0.0270	0.0027
10	104.1650	0.2250	1475.5950	150.3783	0.0339	0.0035
11	104.1900	0.2500	1775.0700	190.9540	0.0408	0.0044
12	104.2150	0.2750	2074.5450	239.0256	0.0476	0.0055
13	104.2400	0.3000	2374.0200	294.5906	0.0545	0.0068
14	104.2650	0.3250	2673.4950	357.6475	0.0614	0.0082
15	104.2900	0.3500	2972.9700	428.1952	0.0683	0.0098
16	104.3150	0.3750	3272.4450	506.2330	0.0751	0.0116
17	104.3400	0.4000	3571.9200	591.7602	0.0820	0.0136
18	104.3525	0.4125	3773.3850	637.6626	0.0866	0.0146
19	104.3650	0.4250	3974.8500	686.0836	0.0912	0.0158
20	104.3775	0.4375	4176.3150	737.0232	0.0959	0.0169
21	104.3900	0.4500	4377.7800	790.4814	0.1005	0.0181
22	104.4025	0.4625	4579.2450	846.4581	0.1051	0.0194
23	104.4150	0.4750	4780.7100	904.9533	0.1098	0.0208
24	104.4275	0.4875	4982.1750	965.9670	0.1144	0.0222
25	104.4400	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	104.4525	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	104.4650	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	104.4775	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	104.4900	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	104.5025	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	104.5150	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	104.5275	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	104.5400	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	104.5525	0.6125	7900.6950	1761.8875	0.1814	0.0404
35	104.5650	0.6250	8265.5100	1862.9177	0.1897	0.0428
36	104.5775	0.6375	8630.3250	1968.5084	0.1981	0.0452
37	104.5900	0.6500	8995.1400	2078.6597	0.2065	0.0477
38	104.6025	0.6625	9359.9550	2193.3715	0.2149	0.0504
39	104.6150	0.6750	9724.7700	2312.6438	0.2233	0.0531
40	104.6275	0.6875	10089.5850	2436.4765	0.2316	0.0559
41	104.6400	0.7000	10454.4000	2564.8697	0.2400	0.0589
42	104.6650	0.7250	11287.4850	2836.5767	0.2591	0.0651
43	104.6900	0.7500	12120.5700	3129.1156	0.2782	0.0718
44	104.7150	0.7750	12953.6550	3442.4857	0.2974	0.0790
45	104.7400	0.8000	13786.7400	3776.6866	0.3165	0.0867
46	104.7650	0.8250	14619.8250	4131.7177	0.3356	0.0949
47	104.7900	0.8500	15452.9100	4507.5788	0.3548	0.1035
48	104.8150	0.8750	16285.9950	4904.2696	0.3739	0.1126
49	104.8400	0.9000	17119.0800	5321.7897	0.3930	0.1222
50	110.4500	6.5100	17119.0800	101359.8285	0.3930	2.3269

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| Variable storage data for node | CR-5
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	104.5600	0.0000	4.3560	0.0000	0.0001	0.0000
2	104.5850	0.0250	150.8265	1.5068	0.0035	0.0000
3	104.6100	0.0500	297.2970	7.0058	0.0068	0.0002
4	104.6350	0.0750	443.7675	16.2082	0.0102	0.0004
5	104.6600	0.1000	590.2380	29.0898	0.0135	0.0007
6	104.6850	0.1250	736.7085	45.6428	0.0169	0.0010
7	104.7100	0.1500	883.1790	65.8638	0.0203	0.0015
8	104.7350	0.1750	1029.6495	89.7507	0.0236	0.0021
9	104.7600	0.2000	1176.1200	117.3026	0.0270	0.0027
10	104.7850	0.2250	1475.5950	150.3783	0.0339	0.0035
11	104.8100	0.2500	1775.0700	190.9540	0.0408	0.0044
12	104.8350	0.2750	2074.5450	239.0256	0.0476	0.0055
13	104.8600	0.3000	2374.0200	294.5906	0.0545	0.0068
14	104.8850	0.3250	2673.4950	357.6475	0.0614	0.0082
15	104.9100	0.3500	2972.9700	428.1952	0.0683	0.0098
16	104.9350	0.3750	3272.4450	506.2330	0.0751	0.0116
17	104.9600	0.4000	3571.9200	591.7602	0.0820	0.0136
18	104.9725	0.4125	3773.3850	637.6626	0.0866	0.0146
19	104.9850	0.4250	3974.8500	686.0836	0.0912	0.0158
20	104.9975	0.4375	4176.3150	737.0232	0.0959	0.0169
21	105.0100	0.4500	4377.7800	790.4814	0.1005	0.0181
22	105.0225	0.4625	4579.2450	846.4581	0.1051	0.0194
23	105.0350	0.4750	4780.7100	904.9533	0.1098	0.0208
24	105.0475	0.4875	4982.1750	965.9670	0.1144	0.0222
25	105.0600	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	105.0725	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	105.0850	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	105.0975	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	105.1100	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	105.1225	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	105.1350	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	105.1475	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	105.1600	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	105.1725	0.6125	7900.6950	1761.8875	0.1814	0.0404
35	105.1850	0.6250	8265.5100	1862.9177	0.1897	0.0428
36	105.1975	0.6375	8630.3250	1968.5084	0.1981	0.0452
37	105.2100	0.6500	8995.1400	2078.6597	0.2065	0.0477
38	105.2225	0.6625	9359.9550	2193.3715	0.2149	0.0504
39	105.2350	0.6750	9724.7700	2312.6438	0.2233	0.0531
40	105.2475	0.6875	10089.5850	2436.4765	0.2316	0.0559
41	105.2600	0.7000	10454.4000	2564.8697	0.2400	0.0589
42	105.2850	0.7250	11287.4850	2836.5767	0.2591	0.0651
43	105.3100	0.7500	12120.5700	3129.1156	0.2782	0.0718
44	105.3350	0.7750	12953.6550	3442.4857	0.2974	0.0790
45	105.3600	0.8000	13786.7400	3776.6866	0.3165	0.0867
46	105.3850	0.8250	14619.8250	4131.7177	0.3356	0.0949
47	105.4100	0.8500	15452.9100	4507.5788	0.3548	0.1035
48	105.4350	0.8750	16285.9950	4904.2696	0.3739	0.1126
49	105.4600	0.9000	17119.0800	5321.7897	0.3930	0.1222
50	110.5900	6.0300	17119.0800	93142.6701	0.3930	2.1383

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| Variable storage data for node | CR-3

Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	106.3800	0.0000	4.3560	0.0000	0.0001	0.0000
2	106.4050	0.0250	150.8265	1.5068	0.0035	0.0000
3	106.4300	0.0500	297.2970	7.0058	0.0068	0.0002
4	106.4550	0.0750	443.7675	16.2082	0.0102	0.0004
5	106.4800	0.1000	590.2380	29.0898	0.0135	0.0007
6	106.5050	0.1250	736.7085	45.6428	0.0169	0.0010
7	106.5300	0.1500	883.1790	65.8638	0.0203	0.0015
8	106.5550	0.1750	1029.6495	89.7507	0.0236	0.0021
9	106.5800	0.2000	1176.1200	117.3026	0.0270	0.0027
10	106.6050	0.2250	1475.5950	150.3783	0.0339	0.0035
11	106.6300	0.2500	1775.0700	190.9540	0.0408	0.0044
12	106.6550	0.2750	2074.5450	239.0256	0.0476	0.0055
13	106.6800	0.3000	2374.0200	294.5906	0.0545	0.0068
14	106.7050	0.3250	2673.4950	357.6475	0.0614	0.0082
15	106.7300	0.3500	2972.9700	428.1952	0.0683	0.0098
16	106.7550	0.3750	3272.4450	506.2330	0.0751	0.0116
17	106.7800	0.4000	3571.9200	591.7602	0.0820	0.0136
18	106.7925	0.4125	3773.3850	637.6626	0.0866	0.0146
19	106.8050	0.4250	3974.8500	686.0836	0.0912	0.0158
20	106.8175	0.4375	4176.3150	737.0232	0.0959	0.0169
21	106.8300	0.4500	4377.7800	790.4814	0.1005	0.0181
22	106.8425	0.4625	4579.2450	846.4581	0.1051	0.0194
23	106.8550	0.4750	4780.7100	904.9533	0.1098	0.0208
24	106.8675	0.4875	4982.1750	965.9670	0.1144	0.0222
25	106.8800	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	106.8925	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	106.9050	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	106.9175	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	106.9300	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	106.9425	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	106.9550	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	106.9675	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	106.9800	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	106.9925	0.6125	7900.6950	1761.8875	0.1814	0.0404
35	107.0050	0.6250	8265.5100	1862.9177	0.1897	0.0428
36	107.0175	0.6375	8630.3250	1968.5084	0.1981	0.0452
37	107.0300	0.6500	8995.1400	2078.6597	0.2065	0.0477
38	107.0425	0.6625	9359.9550	2193.3715	0.2149	0.0504
39	107.0550	0.6750	9724.7700	2312.6438	0.2233	0.0531
40	107.0675	0.6875	10089.5850	2436.4765	0.2316	0.0559
41	107.0800	0.7000	10454.4000	2564.8697	0.2400	0.0589
42	107.1050	0.7250	11287.4850	2836.5767	0.2591	0.0651
43	107.1300	0.7500	12120.5700	3129.1156	0.2782	0.0718
44	107.1550	0.7750	12953.6550	3442.4857	0.2974	0.0790
45	107.1800	0.8000	13786.7400	3776.6866	0.3165	0.0867
46	107.2050	0.8250	14619.8250	4131.7177	0.3356	0.0949
47	107.2300	0.8500	15452.9100	4507.5788	0.3548	0.1035
48	107.2550	0.8750	16285.9950	4904.2696	0.3739	0.1126
49	107.2800	0.9000	17119.0800	5321.7897	0.3930	0.1222
50	109.9000	3.5200	17119.0800	50173.7793	0.3930	1.1518

Variable storage data for node | CR-1						
Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	107.5000	0.0000	4.3560	0.0000	0.0001	0.0000
2	107.5250	0.0250	150.8265	1.5068	0.0035	0.0000
3	107.5500	0.0500	297.2970	7.0058	0.0068	0.0002
4	107.5750	0.0750	443.7675	16.2082	0.0102	0.0004
5	107.6000	0.1000	590.2380	29.0898	0.0135	0.0007
6	107.6250	0.1250	736.7085	45.6428	0.0169	0.0010
7	107.6500	0.1500	883.1790	65.8638	0.0203	0.0015
8	107.6750	0.1750	1029.6495	89.7507	0.0236	0.0021
9	107.7000	0.2000	1176.1200	117.3026	0.0270	0.0027
10	107.7250	0.2250	1475.5950	150.3783	0.0339	0.0035
11	107.7500	0.2500	1775.0700	190.9540	0.0408	0.0044
12	107.7750	0.2750	2074.5450	239.0256	0.0476	0.0055
13	107.8000	0.3000	2374.0200	294.5906	0.0545	0.0068
14	107.8250	0.3250	2673.4950	357.6475	0.0614	0.0082
15	107.8500	0.3500	2972.9700	428.1952	0.0683	0.0098
16	107.8750	0.3750	3272.4450	506.2330	0.0751	0.0116
17	107.9000	0.4000	3571.9200	591.7602	0.0820	0.0136
18	107.9125	0.4125	3773.3850	637.6626	0.0866	0.0146
19	107.9250	0.4250	3974.8500	686.0836	0.0912	0.0158
20	107.9375	0.4375	4176.3150	737.0232	0.0959	0.0169
21	107.9500	0.4500	4377.7800	790.4814	0.1005	0.0181
22	107.9625	0.4625	4579.2450	846.4581	0.1051	0.0194
23	107.9750	0.4750	4780.7100	904.9533	0.1098	0.0208
24	107.9875	0.4875	4982.1750	965.9670	0.1144	0.0222
25	108.0000	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	108.0125	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	108.0250	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	108.0375	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	108.0500	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	108.0625	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	108.0750	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	108.0875	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	108.1000	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	108.1125	0.6125	7900.6950	1761.8875	0.1814	0.0404
35	108.1250	0.6250	8265.5100	1862.9177	0.1897	0.0428
36	108.1375	0.6375	8630.3250	1968.5084	0.1981	0.0452
37	108.1500	0.6500	8995.1400	2078.6597	0.2065	0.0477
38	108.1625	0.6625	9359.9550	2193.3715	0.2149	0.0504
39	108.1750	0.6750	9724.7700	2312.6438	0.2233	0.0531
40	108.1875	0.6875	10089.5850	2436.4765	0.2316	0.0559
41	108.2000	0.7000	10454.4000	2564.8697	0.2400	0.0589
42	108.2250	0.7250	11287.4850	2836.5767	0.2591	0.0651
43	108.2500	0.7500	12120.5700	3129.1156	0.2782	0.0718
44	108.2750	0.7750	12953.6550	3442.4857	0.2974	0.0790
45	108.3000	0.8000	13786.7400	3776.6866	0.3165	0.0867
46	108.3250	0.8250	14619.8250	4131.7177	0.3356	0.0949
47	108.3500	0.8500	15452.9100	4507.5788	0.3548	0.1035
48	108.3750	0.8750	16285.9950	4904.2696	0.3739	0.1126
49	108.4000	0.9000	17119.0800	5321.7897	0.3930	0.1222
50	110.4000	2.9000	17119.0800	39559.9497	0.3930	0.9082

Variable storage data for node | CQ-9						
Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	103.5000	0.0000	4.3560	0.0000	0.0001	0.0000
2	103.5250	0.0250	150.8265	1.5068	0.0035	0.0000
3	103.5500	0.0500	297.2970	7.0058	0.0068	0.0002
4	103.5750	0.0750	443.7675	16.2082	0.0102	0.0004
5	103.6000	0.1000	590.2380	29.0898	0.0135	0.0007
6	103.6250	0.1250	736.7085	45.6428	0.0169	0.0010
7	103.6500	0.1500	883.1790	65.8638	0.0203	0.0015
8	103.6750	0.1750	1029.6495	89.7507	0.0236	0.0021
9	103.7000	0.2000	1176.1200	117.3026	0.0270	0.0027
10	103.7250	0.2250	1475.5950	150.3783	0.0339	0.0035

11	103.7500	0.2500	1775.0700	190.9540	0.0408	0.0044
12	103.7750	0.2750	2074.5450	239.0256	0.0476	0.0055
13	103.8000	0.3000	2374.0200	294.5906	0.0545	0.0068
14	103.8250	0.3250	2673.4950	357.6475	0.0614	0.0082
15	103.8500	0.3500	2972.9700	428.1952	0.0683	0.0098
16	103.8750	0.3750	3272.4450	506.2330	0.0751	0.0116
17	103.9000	0.4000	3571.9200	591.7602	0.0820	0.0136
18	103.9125	0.4125	3773.3850	637.6626	0.0866	0.0146
19	103.9250	0.4250	3974.8500	686.0836	0.0912	0.0158
20	103.9375	0.4375	4176.3150	737.0232	0.0959	0.0169
21	103.9500	0.4500	4377.7800	790.4814	0.1005	0.0181
22	103.9625	0.4625	4579.2450	846.4581	0.1051	0.0194
23	103.9750	0.4750	4780.7100	904.9533	0.1098	0.0208
24	103.9875	0.4875	4982.1750	965.9670	0.1144	0.0222
25	104.0000	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	104.0125	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	104.0250	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	104.0375	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	104.0500	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	104.0625	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	104.0750	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	104.0875	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	104.1000	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	104.1125	0.6125	7900.6950	1761.8875	0.1814	0.0404
35	104.1250	0.6250	8265.5100	1862.9177	0.1897	0.0428
36	104.1375	0.6375	8630.3250	1968.5084	0.1981	0.0452
37	104.1500	0.6500	8995.1400	2078.6597	0.2065	0.0477
38	104.1625	0.6625	9359.9550	2193.3715	0.2149	0.0504
39	104.1750	0.6750	9724.7700	2312.6438	0.2233	0.0531
40	104.1875	0.6875	10089.5850	2436.4765	0.2316	0.0559
41	104.2000	0.7000	10454.4000	2564.8697	0.2400	0.0589
42	104.2250	0.7250	11287.4850	2836.5767	0.2591	0.0651
43	104.2500	0.7500	12120.5700	3129.1156	0.2782	0.0718
44	104.2750	0.7750	12953.6550	3442.4857	0.2974	0.0790
45	104.3000	0.8000	13786.7400	3776.6866	0.3165	0.0867
46	104.3250	0.8250	14619.8250	4131.7177	0.3356	0.0949
47	104.3500	0.8500	15452.9100	4507.5788	0.3548	0.1035
48	104.3750	0.8750	16285.9950	4904.2696	0.3739	0.1126
49	104.4000	0.9000	17119.0800	5321.7897	0.3930	0.1222
50	111.3700	7.8700	17119.0800	124641.7773	0.3930	2.8614

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| Variable storage data for node | CQ-8
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	103.9800	0.0000	4.3560	0.0000	0.0001	0.0000
2	104.0050	0.0250	150.8265	1.5068	0.0035	0.0000
3	104.0300	0.0500	297.2970	7.0058	0.0068	0.0002
4	104.0550	0.0750	443.7675	16.2082	0.0102	0.0004
5	104.0800	0.1000	590.2380	29.0898	0.0135	0.0007
6	104.1050	0.1250	736.7085	45.6428	0.0169	0.0010
7	104.1300	0.1500	883.1790	65.8638	0.0203	0.0015
8	104.1550	0.1750	1029.6495	89.7507	0.0236	0.0021
9	104.1800	0.2000	1176.1200	117.3026	0.0270	0.0027
10	104.2050	0.2250	1475.5950	150.3783	0.0339	0.0035
11	104.2300	0.2500	1775.0700	190.9540	0.0408	0.0044
12	104.2550	0.2750	2074.5450	239.0256	0.0476	0.0055
13	104.2800	0.3000	2374.0200	294.5906	0.0545	0.0068
14	104.3050	0.3250	2673.4950	357.6475	0.0614	0.0082
15	104.3300	0.3500	2972.9700	428.1952	0.0683	0.0098
16	104.3550	0.3750	3272.4450	506.2330	0.0751	0.0116
17	104.3800	0.4000	3571.9200	591.7602	0.0820	0.0136
18	104.3925	0.4125	3773.3850	637.6626	0.0866	0.0146
19	104.4050	0.4250	3974.8500	686.0836	0.0912	0.0158
20	104.4175	0.4375	4176.3150	737.0232	0.0959	0.0169
21	104.4300	0.4500	4377.7800	790.4814	0.1005	0.0181
22	104.4425	0.4625	4579.2450	846.4581	0.1051	0.0194
23	104.4550	0.4750	4780.7100	904.9533	0.1098	0.0208
24	104.4675	0.4875	4982.1750	965.9670	0.1144	0.0222
25	104.4800	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	104.4925	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	104.5050	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	104.5175	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	104.5300	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	104.5425	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	104.5550	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	104.5675	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	104.5800	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	104.5925	0.6125	7900.6950	1761.8875	0.1814	0.0404
35	104.6050	0.6250	8265.5100	1862.9177	0.1897	0.0428
36	104.6175	0.6375	8630.3250	1968.5084	0.1981	0.0452
37	104.6300	0.6500	8995.1400	2078.6597	0.2065	0.0477
38	104.6425	0.6625	9359.9550	2193.3715	0.2149	0.0504
39	104.6550	0.6750	9724.7700	2312.6438	0.2233	0.0531
40	104.6675	0.6875	10089.5850	2436.4765	0.2316	0.0559
41	104.6800	0.7000	10454.4000	2564.8697	0.2400	0.0589
42	104.7050	0.7250	11287.4850	2836.5767	0.2591	0.0651
43	104.7300	0.7500	12120.5700	3129.1156	0.2782	0.0718
44	104.7550	0.7750	12953.6550	3442.4857	0.2974	0.0790
45	104.7800	0.8000	13786.7400	3776.6866	0.3165	0.0867
46	104.8050	0.8250	14619.8250	4131.7177	0.3356	0.0949
47	104.8300	0.8500	15452.9100	4507.5788	0.3548	0.1035
48	104.8550	0.8750	16285.9950	4904.2696	0.3739	0.1126
49	104.8800	0.9000	17119.0800	5321.7897	0.3930	0.1222
50	111.3900	7.4100	17119.0800	116767.0005	0.3930	2.6806

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| Variable storage data for node | CQ-7
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	105.1200	0.0000	4.3560	0.0000	0.0001	0.0000
2	105.1450	0.0250	150.8265	1.5068	0.0035	0.0000
3	105.1700	0.0500	297.2970	7.0058	0.0068	0.0002
4	105.1950	0.0750	443.7675	16.2082	0.0102	0.0004
5	105.2200	0.1000	590.2380	29.0898	0.0135	0.0007
6	105.2450	0.1250	736.7085	45.6428	0.0169	0.0010
7	105.2700	0.1500	883.1790	65.8638	0.0203	0.0015
8	105.2950	0.1750	1029.6495	89.7507	0.0236	0.0021
9	105.3200	0.2000	1176.1200	117.3026	0.0270	0.0027
10	105.3450	0.2250	1475.5950	150.3783	0.0339	0.0035
11	105.3700	0.2500	1775.0700	190.9540	0.0408	0.0044
12	105.3950	0.2750	2074.5450	239.0256	0.0476	0.0055
13	105.4200	0.3000	2374.0200	294.5906	0.0545	0.0068
14	105.4450	0.3250	2673.4950	357.6475	0.0614	0.0082
15	105.4700	0.3500	2972.9700	428.1952	0.0683	0.0098
16	105.4950	0.3750	3272.4450	506.2330	0.0751	0.0116
17	105.5200	0.4000	3571.9200	591.7602	0.0820	0.0136
18	105.5325	0.4125	3773.3850	637.6626	0.0866	0.0146
19	105.5450	0.4250	3974.8500	686.0836	0.0912	0.0158
20	105.5575	0.4375	4176.3150	737.0232	0.0959	0.0169
21	105.5700	0.4500	4377.7800	790.4814	0.1005	0.0181
22	105.5825	0.4625	4579.2450	846.4581	0.1051	0.0194
23	105.5950	0.4750	4780.7100	904.9533	0.1098	0.0208
24	105.6075	0.4875	4982.1750	965.9670	0.1144	0.0222

25	105.6200	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	105.6325	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	105.6450	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	105.6575	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	105.6700	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	105.6825	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	105.6950	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	105.7075	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	105.7200	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	105.7325	0.6125	7900.6950	1761.8875	0.1814	0.0404
35	105.7450	0.6250	8265.5100	1862.9177	0.1897	0.0428
36	105.7575	0.6375	8630.3250	1968.5084	0.1981	0.0452
37	105.7700	0.6500	8995.1400	2078.6597	0.2065	0.0477
38	105.7825	0.6625	9359.9550	2193.3715	0.2149	0.0504
39	105.7950	0.6750	9724.7700	2312.6438	0.2233	0.0531
40	105.8075	0.6875	10089.5850	2436.4765	0.2316	0.0559
41	105.8200	0.7000	10454.4000	2564.8697	0.2400	0.0589
42	105.8450	0.7250	11287.4850	2836.5767	0.2591	0.0651
43	105.8700	0.7500	12120.5700	3129.1156	0.2782	0.0718
44	105.8950	0.7750	12953.6550	3442.4857	0.2974	0.0790
45	105.9200	0.8000	13786.7400	3776.6866	0.3165	0.0867
46	105.9450	0.8250	14619.8250	4131.7177	0.3356	0.0949
47	105.9700	0.8500	15452.9100	4507.5788	0.3548	0.1035
48	105.9950	0.8750	16285.9950	4904.2696	0.3739	0.1126
49	106.0200	0.9000	17119.0800	5321.7897	0.3930	0.1222
50	111.5800	6.4600	17119.0800	100503.8745	0.3930	2.3073

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| Variable storage data for node | CQ-5
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	106.0200	0.0000	4.3560	0.0000	0.0001	0.0000
2	106.0450	0.0250	150.8265	1.5068	0.0035	0.0000
3	106.0700	0.0500	297.2970	7.0058	0.0068	0.0002
4	106.0950	0.0750	443.7675	16.2082	0.0102	0.0004
5	106.1200	0.1000	590.2380	29.0898	0.0135	0.0007
6	106.1450	0.1250	736.7085	45.6428	0.0169	0.0010
7	106.1700	0.1500	883.1790	65.8638	0.0203	0.0015
8	106.1950	0.1750	1029.6495	89.7507	0.0236	0.0021
9	106.2200	0.2000	1176.1200	117.3026	0.0270	0.0027
10	106.2450	0.2250	1475.5950	150.3783	0.0339	0.0035
11	106.2700	0.2500	1775.0700	190.9540	0.0408	0.0044
12	106.2950	0.2750	2074.5450	239.0256	0.0476	0.0055
13	106.3200	0.3000	2374.0200	294.5906	0.0545	0.0068
14	106.3450	0.3250	2673.4950	357.6475	0.0614	0.0082
15	106.3700	0.3500	2972.9700	428.1952	0.0683	0.0098
16	106.3950	0.3750	3272.4450	506.2330	0.0751	0.0116
17	106.4200	0.4000	3571.9200	591.7602	0.0820	0.0136
18	106.4325	0.4125	3773.3850	637.6626	0.0866	0.0146
19	106.4450	0.4250	3974.8500	686.0836	0.0912	0.0158
20	106.4575	0.4375	4176.3150	737.0232	0.0959	0.0169
21	106.4700	0.4500	4377.7800	790.4814	0.1005	0.0181
22	106.4825	0.4625	4579.2450	846.4581	0.1051	0.0194
23	106.4950	0.4750	4780.7100	904.9533	0.1098	0.0208
24	106.5075	0.4875	4982.1750	965.9670	0.1144	0.0222
25	106.5200	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	106.5325	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	106.5450	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	106.5575	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	106.5700	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	106.5825	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	106.5950	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	106.6075	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	106.6200	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	106.6325	0.6125	7900.6950	1761.8875	0.1814	0.0404
35	106.6450	0.6250	8265.5100	1862.9177	0.1897	0.0428
36	106.6575	0.6375	8630.3250	1968.5084	0.1981	0.0452
37	106.6700	0.6500	8995.1400	2078.6597	0.2065	0.0477
38	106.6825	0.6625	9359.9550	2193.3715	0.2149	0.0504
39	106.6950	0.6750	9724.7700	2312.6438	0.2233	0.0531
40	106.7075	0.6875	10089.5850	2436.4765	0.2316	0.0559
41	106.7200	0.7000	10454.4000	2564.8697	0.2400	0.0589
42	106.7450	0.7250	11287.4850	2836.5767	0.2591	0.0651
43	106.7700	0.7500	12120.5700	3129.1156	0.2782	0.0718
44	106.7950	0.7750	12953.6550	3442.4857	0.2974	0.0790
45	106.8200	0.8000	13786.7400	3776.6866	0.3165	0.0867
46	106.8450	0.8250	14619.8250	4131.7177	0.3356	0.0949
47	106.8700	0.8500	15452.9100	4507.5788	0.3548	0.1035
48	106.8950	0.8750	16285.9950	4904.2696	0.3739	0.1126
49	106.9200	0.9000	17119.0800	5321.7897	0.3930	0.1222
50	111.8800	5.8600	17119.0800	90232.4265	0.3930	2.0715

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| Variable storage data for node | CQ-3
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	107.3800	0.0000	4.3560	0.0000	0.0001	0.0000
2	107.4050	0.0250	150.8265	1.5068	0.0035	0.0000
3	107.4300	0.0500	297.2970	7.0058	0.0068	0.0002
4	107.4550	0.0750	443.7675	16.2082	0.0102	0.0004
5	107.4800	0.1000	590.2380	29.0898	0.0135	0.0007
6	107.5050	0.1250	736.7085	45.6428	0.0169	0.0010
7	107.5300	0.1500	883.1790	65.8638	0.0203	0.0015
8	107.5550	0.1750	1029.6495	89.7507	0.0236	0.0021
9	107.5800	0.2000	1176.1200	117.3026	0.0270	0.0027
10	107.6050	0.2250	1475.5950	150.3783	0.0339	0.0035
11	107.6300	0.2500	1775.0700	190.9540	0.0408	0.0044
12	107.6550	0.2750	2074.5450	239.0256	0.0476	0.0055
13	107.6800	0.3000	2374.0200	294.5906	0.0545	0.0068
14	107.7050	0.3250	2673.4950	357.6475	0.0614	0.0082
15	107.7300	0.3500	2972.9700	428.1952	0.0683	0.0098
16	107.7550	0.3750	3272.4450	506.2330	0.0751	0.0116
17	107.7800	0.4000	3571.9200	591.7602	0.0820	0.0136
18	107.7925	0.4125	3773.3850	637.6626	0.0866	0.0146
19	107.8050	0.4250	3974.8500	686.0836	0.0912	0.0158
20	107.8175	0.4375	4176.3150	737.0232	0.0959	0.0169
21	107.8300	0.4500	4377.7800	790.4814	0.1005	0.0181
22	107.8425	0.4625	4579.2450	846.4581	0.1051	0.0194
23	107.8550	0.4750	4780.7100	904.9533	0.1098	0.0208
24	107.8675	0.4875	4982.1750	965.9670	0.1144	0.0222
25	107.8800	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	107.8925	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	107.9050	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	107.9175	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	107.9300	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	107.9425	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	107.9550	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	107.9675	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	107.9800	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	107.9925	0.6125	7900.6950	1761.8875	0.1814	0.0404
35	108.0050	0.6250	8265.5100	1862.9177	0.1897	0.0428
36	108.0175	0.6375	8630.3250	1968.5084	0.1981	0.0452
37	108.0300	0.6500	8995.1400	2078.6597	0.2065	0.0477
38	108.0425	0.6625	9359.9550	2193.3715	0.2149	0.0504

39	108.0550	0.6750	9724.7700	2312.6438	0.2233	0.0531
40	108.0675	0.6875	10089.5850	2436.4765	0.2316	0.0559
41	108.0800	0.7000	10454.4000	2564.8697	0.2400	0.0589
42	108.1050	0.7250	11287.4850	2836.5767	0.2591	0.0651
43	108.1300	0.7500	12120.5700	3129.1156	0.2782	0.0718
44	108.1550	0.7750	12953.6550	3442.4857	0.2974	0.0790
45	108.1800	0.8000	13786.7400	3776.6866	0.3165	0.0867
46	108.2050	0.8250	14619.8250	4131.7177	0.3356	0.0949
47	108.2300	0.8500	15452.9100	4507.5788	0.3548	0.1035
48	108.2550	0.8750	16285.9950	4904.2696	0.3739	0.1126
49	108.2800	0.9000	17119.0800	5321.7897	0.3930	0.1222
50	111.6100	4.2300	17119.0800	62328.3261	0.3930	1.4309

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| Variable storage data for node | CP-1
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	108.7500	0.0000	4.3560	0.0000	0.0001	0.0000
2	108.7750	0.0250	150.8265	1.5068	0.0035	0.0000
3	108.8000	0.0500	297.2970	7.0058	0.0068	0.0002
4	108.8250	0.0750	443.7675	16.2082	0.0102	0.0004
5	108.8500	0.1000	590.2380	29.0898	0.0135	0.0007
6	108.8750	0.1250	736.7085	45.6428	0.0169	0.0010
7	108.9000	0.1500	883.1790	65.8638	0.0203	0.0015
8	108.9250	0.1750	1029.6495	89.7507	0.0236	0.0021
9	108.9500	0.2000	1176.1200	117.3026	0.0270	0.0027
10	108.9750	0.2250	1475.5950	150.3783	0.0339	0.0035
11	109.0000	0.2500	1775.0700	190.9540	0.0408	0.0044
12	109.0250	0.2750	2074.5450	239.0256	0.0476	0.0055
13	109.0500	0.3000	2374.0200	294.5906	0.0545	0.0068
14	109.0750	0.3250	2673.4950	357.6475	0.0614	0.0082
15	109.1000	0.3500	2972.9700	428.1952	0.0683	0.0098
16	109.1250	0.3750	3272.4450	506.2330	0.0751	0.0116
17	109.1500	0.4000	3571.9200	591.7602	0.0820	0.0136
18	109.1625	0.4125	3773.3850	637.6626	0.0866	0.0146
19	109.1750	0.4250	3974.8500	686.0836	0.0912	0.0158
20	109.1875	0.4375	4176.3150	737.0232	0.0959	0.0169
21	109.2000	0.4500	4377.7800	790.4814	0.1005	0.0181
22	109.2125	0.4625	4579.2450	846.4581	0.1051	0.0194
23	109.2250	0.4750	4780.7100	904.9533	0.1098	0.0208
24	109.2375	0.4875	4982.1750	965.9670	0.1144	0.0222
25	109.2500	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	109.2625	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	109.2750	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	109.2875	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	109.3000	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	109.3125	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	109.3250	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	109.3375	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	109.3500	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	109.3625	0.6125	7900.6950	1761.8875	0.1814	0.0404
35	109.3750	0.6250	8265.5100	1862.9177	0.1897	0.0428
36	109.3875	0.6375	8630.3250	1968.5084	0.1981	0.0452
37	109.4000	0.6500	8995.1400	2078.6597	0.2065	0.0477
38	109.4125	0.6625	9359.9550	2193.3715	0.2149	0.0504
39	109.4250	0.6750	9724.7700	2312.6438	0.2233	0.0531
40	109.4375	0.6875	10089.5850	2436.4765	0.2316	0.0559
41	109.4500	0.7000	10454.4000	2564.8697	0.2400	0.0589
42	109.4750	0.7250	11287.4850	2836.5767	0.2591	0.0651
43	109.5000	0.7500	12120.5700	3129.1156	0.2782	0.0718
44	109.5250	0.7750	12953.6550	3442.4857	0.2974	0.0790
45	109.5500	0.8000	13786.7400	3776.6866	0.3165	0.0867
46	109.5750	0.8250	14619.8250	4131.7177	0.3356	0.0949
47	109.6000	0.8500	15452.9100	4507.5788	0.3548	0.1035
48	109.6250	0.8750	16285.9950	4904.2696	0.3739	0.1126
49	109.6500	0.9000	17119.0800	5321.7897	0.3930	0.1222
50	112.1100	3.3600	17119.0800	47434.7265	0.3930	1.0890

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| Variable storage data for node | CO-10
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	109.0000	0.0000	4.3560	0.0000	0.0001	0.0000
2	109.0250	0.0250	150.8265	1.5068	0.0035	0.0000
3	109.0500	0.0500	297.2970	7.0058	0.0068	0.0002
4	109.0750	0.0750	443.7675	16.2082	0.0102	0.0004
5	109.1000	0.1000	590.2380	29.0898	0.0135	0.0007
6	109.1250	0.1250	736.7085	45.6428	0.0169	0.0010
7	109.1500	0.1500	883.1790	65.8638	0.0203	0.0015
8	109.1750	0.1750	1029.6495	89.7507	0.0236	0.0021
9	109.2000	0.2000	1176.1200	117.3026	0.0270	0.0027
10	109.2250	0.2250	1475.5950	150.3783	0.0339	0.0035
11	109.2500	0.2500	1775.0700	190.9540	0.0408	0.0044
12	109.2750	0.2750	2074.5450	239.0256	0.0476	0.0055
13	109.3000	0.3000	2374.0200	294.5906	0.0545	0.0068
14	109.3250	0.3250	2673.4950	357.6475	0.0614	0.0082
15	109.3500	0.3500	2972.9700	428.1952	0.0683	0.0098
16	109.3750	0.3750	3272.4450	506.2330	0.0751	0.0116
17	109.4000	0.4000	3571.9200	591.7602	0.0820	0.0136
18	109.4125	0.4125	3773.3850	637.6626	0.0866	0.0146
19	109.4250	0.4250	3974.8500	686.0836	0.0912	0.0158
20	109.4375	0.4375	4176.3150	737.0232	0.0959	0.0169
21	109.4500	0.4500	4377.7800	790.4814	0.1005	0.0181
22	109.4625	0.4625	4579.2450	846.4581	0.1051	0.0194
23	109.4750	0.4750	4780.7100	904.9533	0.1098	0.0208
24	109.4875	0.4875	4982.1750	965.9670	0.1144	0.0222
25	109.5000	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	109.5125	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	109.5250	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	109.5375	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	109.5500	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	109.5625	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	109.5750	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	109.5875	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	109.6000	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	109.6125	0.6125	7900.6950	1761.8875	0.1814	0.0404
35	109.6250	0.6250	8265.5100	1862.9177	0.1897	0.0428
36	109.6375	0.6375	8630.3250	1968.5084	0.1981	0.0452
37	109.6500	0.6500	8995.1400	2078.6597	0.2065	0.0477
38	109.6625	0.6625	9359.9550	2193.3715	0.2149	0.0504
39	109.6750	0.6750	9724.7700	2312.6438	0.2233	0.0531
40	109.6875	0.6875	10089.5850	2436.4765	0.2316	0.0559
41	109.7000	0.7000	10454.4000	2564.8697	0.2400	0.0589
42	109.7250	0.7250	11287.4850	2836.5767	0.2591	0.0651
43	109.7500	0.7500	12120.5700	3129.1156	0.2782	0.0718
44	109.7750	0.7750	12953.6550	3442.4857	0.2974	0.0790
45	109.8000	0.8000	13786.7400	3776.6866	0.3165	0.0867
46	109.8250	0.8250	14619.8250	4131.7177	0.3356	0.0949
47	109.8500	0.8500	15452.9100	4507.5788	0.3548	0.1035
48	109.8750	0.8750	16285.9950	4904.2696	0.3739	0.1126
49	109.9000	0.9000	17119.0800	5321.7897	0.3930	0.1222
50	112.4800	3.4800	17119.0800	49489.0161	0.3930	1.1361

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| Variable storage data for node | CQ-1

Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	108.2200	0.0000	4.3560	0.0000	0.0001	0.0000
2	108.2450	0.0250	150.8265	1.5068	0.0035	0.0000
3	108.2700	0.0500	297.2970	7.0058	0.0068	0.0002
4	108.2950	0.0750	443.7675	16.2082	0.0102	0.0004
5	108.3200	0.1000	590.2380	29.0898	0.0135	0.0007
6	108.3450	0.1250	736.7085	45.6428	0.0169	0.0010
7	108.3700	0.1500	883.1790	65.8638	0.0203	0.0015
8	108.3950	0.1750	1029.6495	89.7507	0.0236	0.0021
9	108.4200	0.2000	1176.1200	117.3026	0.0270	0.0027
10	108.4450	0.2250	1475.5950	150.3783	0.0339	0.0035
11	108.4700	0.2500	1775.0700	190.9540	0.0408	0.0044
12	108.4950	0.2750	2074.5450	239.0256	0.0476	0.0055
13	108.5200	0.3000	2374.0200	294.5906	0.0545	0.0068
14	108.5450	0.3250	2673.4950	357.6475	0.0614	0.0082
15	108.5700	0.3500	2972.9700	428.1952	0.0683	0.0098
16	108.5950	0.3750	3272.4450	506.2330	0.0751	0.0116
17	108.6200	0.4000	3571.9200	591.7602	0.0820	0.0136
18	108.6325	0.4125	3773.3850	637.6626	0.0866	0.0146
19	108.6450	0.4250	3974.8500	686.0836	0.0912	0.0158
20	108.6575	0.4375	4176.3150	737.0232	0.0959	0.0169
21	108.6700	0.4500	4377.7800	790.4814	0.1005	0.0181
22	108.6825	0.4625	4579.2450	846.4581	0.1051	0.0194
23	108.6950	0.4750	4780.7100	904.9533	0.1098	0.0208
24	108.7075	0.4875	4982.1750	965.9670	0.1144	0.0222
25	108.7200	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	108.7325	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	108.7450	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	108.7575	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	108.7700	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	108.7825	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	108.7950	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	108.8075	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	108.8200	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	108.8325	0.6125	7900.6950	1761.8875	0.1814	0.0404
35	108.8450	0.6250	8265.5100	1862.9177	0.1897	0.0428
36	108.8575	0.6375	8630.3250	1968.5084	0.1981	0.0452
37	108.8700	0.6500	8995.1400	2078.6597	0.2065	0.0477
38	108.8825	0.6625	9359.9550	2193.3715	0.2149	0.0504
39	108.8950	0.6750	9724.7700	2312.6438	0.2233	0.0531
40	108.9075	0.6875	10089.5850	2436.4765	0.2316	0.0559
41	108.9200	0.7000	10454.4000	2564.8697	0.2400	0.0589
42	108.9450	0.7250	11287.4850	2836.5767	0.2591	0.0651
43	108.9700	0.7500	12120.5700	3129.1156	0.2782	0.0718
44	108.9950	0.7750	12953.6550	3442.4857	0.2974	0.0790
45	109.0200	0.8000	13786.7400	3776.6866	0.3165	0.0867
46	109.0450	0.8250	14619.8250	4131.7177	0.3356	0.0949
47	109.0700	0.8500	15452.9100	4507.5788	0.3548	0.1035
48	109.0950	0.8750	16285.9950	4904.2696	0.3739	0.1126
49	109.1200	0.9000	17119.0800	5321.7897	0.3930	0.1222
50	112.1600	3.9400	17119.0800	57363.7929	0.3930	1.3169

| Variable storage data for node | CT2-1

Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	105.8400	0.0000	4.3560	0.0000	0.0001	0.0000
2	105.8650	0.0250	150.8265	1.5068	0.0035	0.0000
3	105.8900	0.0500	297.2970	7.0058	0.0068	0.0002
4	105.9150	0.0750	443.7675	16.2082	0.0102	0.0004
5	105.9400	0.1000	590.2380	29.0898	0.0135	0.0007
6	105.9650	0.1250	736.7085	45.6428	0.0169	0.0010
7	105.9900	0.1500	883.1790	65.8638	0.0203	0.0015
8	106.0150	0.1750	1029.6495	89.7507	0.0236	0.0021
9	106.0400	0.2000	1176.1200	117.3026	0.0270	0.0027
10	106.0650	0.2250	1475.5950	150.3783	0.0339	0.0035
11	106.0900	0.2500	1775.0700	190.9540	0.0408	0.0044
12	106.1150	0.2750	2074.5450	239.0256	0.0476	0.0055
13	106.1400	0.3000	2374.0200	294.5906	0.0545	0.0068
14	106.1650	0.3250	2673.4950	357.6475	0.0614	0.0082
15	106.1900	0.3500	2972.9700	428.1952	0.0683	0.0098
16	106.2150	0.3750	3272.4450	506.2330	0.0751	0.0116
17	106.2400	0.4000	3571.9200	591.7602	0.0820	0.0136
18	106.2525	0.4125	3773.3850	637.6626	0.0866	0.0146
19	106.2650	0.4250	3974.8500	686.0836	0.0912	0.0158
20	106.2775	0.4375	4176.3150	737.0232	0.0959	0.0169
21	106.2900	0.4500	4377.7800	790.4814	0.1005	0.0181
22	106.3025	0.4625	4579.2450	846.4581	0.1051	0.0194
23	106.3150	0.4750	4780.7100	904.9533	0.1098	0.0208
24	106.3275	0.4875	4982.1750	965.9670	0.1144	0.0222
25	106.3400	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	106.3525	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	106.3650	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	106.3775	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	106.3900	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	106.4025	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	106.4150	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	106.4275	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	106.4400	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	106.4525	0.6125	7900.6950	1761.8875	0.1814	0.0404
35	106.4650	0.6250	8265.5100	1862.9177	0.1897	0.0428
36	106.4775	0.6375	8630.3250	1968.5084	0.1981	0.0452
37	106.4900	0.6500	8995.1400	2078.6597	0.2065	0.0477
38	106.5025	0.6625	9359.9550	2193.3715	0.2149	0.0504
39	106.5150	0.6750	9724.7700	2312.6438	0.2233	0.0531
40	106.5275	0.6875	10089.5850	2436.4765	0.2316	0.0559
41	106.5400	0.7000	10454.4000	2564.8697	0.2400	0.0589
42	106.5650	0.7250	11287.4850	2836.5767	0.2591	0.0651
43	106.5900	0.7500	12120.5700	3129.1156	0.2782	0.0718
44	106.6150	0.7750	12953.6550	3442.4857	0.2974	0.0790
45	106.6400	0.8000	13786.7400	3776.6866	0.3165	0.0867
46	106.6650	0.8250	14619.8250	4131.7177	0.3356	0.0949
47	106.6900	0.8500	15452.9100	4507.5788	0.3548	0.1035
48	106.7150	0.8750	16285.9950	4904.2696	0.3739	0.1126
49	106.7400	0.9000	17119.0800	5321.7897	0.3930	0.1222
50	108.8200	2.9800	17119.0800	40929.4761	0.3930	0.9396

| Variable storage data for node | CT2-2

Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	105.4600	0.0000	4.3560	0.0000	0.0001	0.0000
2	105.4850	0.0250	150.8265	1.5068	0.0035	0.0000
3	105.5100	0.0500	297.2970	7.0058	0.0068	0.0002
4	105.5350	0.0750	443.7675	16.2082	0.0102	0.0004
5	105.5600	0.1000	590.2380	29.0898	0.0135	0.0007
6	105.5850	0.1250	736.7085	45.6428	0.0169	0.0010
7	105.6100	0.1500	883.1790	65.8638	0.0203	0.0015
8	105.6350	0.1750	1029.6495	89.7507	0.0236	0.0021
9	105.6600	0.2000	1176.1200	117.3026	0.0270	0.0027

10	105.6850	0.2250	1475.5950	150.3783	0.0339	0.0035
11	105.7100	0.2500	1775.0700	190.9540	0.0408	0.0044
12	105.7350	0.2750	2074.5450	239.0256	0.0476	0.0055
13	105.7600	0.3000	2374.0200	294.5906	0.0545	0.0068
14	105.7850	0.3250	2673.4950	357.6475	0.0614	0.0082
15	105.8100	0.3500	2972.9700	428.1952	0.0683	0.0098
16	105.8350	0.3750	3272.4450	506.2330	0.0751	0.0116
17	105.8600	0.4000	3571.9200	591.7602	0.0820	0.0136
18	105.8725	0.4125	3773.3850	637.6626	0.0866	0.0146
19	105.8850	0.4250	3974.8500	686.0836	0.0912	0.0158
20	105.8975	0.4375	4176.3150	737.0232	0.0959	0.0169
21	105.9100	0.4500	4377.7800	790.4814	0.1005	0.0181
22	105.9225	0.4625	4579.2450	846.4581	0.1051	0.0194
23	105.9350	0.4750	4780.7100	904.9533	0.1098	0.0208
24	105.9475	0.4875	4982.1750	965.9670	0.1144	0.0222
25	105.9600	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	105.9725	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	105.9850	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	105.9975	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	106.0100	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	106.0225	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	106.0350	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	106.0475	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	106.0600	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	106.0725	0.6125	7900.6950	1761.8875	0.1814	0.0404
35	106.0850	0.6250	8265.5100	1862.9177	0.1897	0.0428
36	106.0975	0.6375	8630.3250	1968.5084	0.1981	0.0452
37	106.1100	0.6500	8995.1400	2078.6597	0.2065	0.0477
38	106.1225	0.6625	9359.9550	2193.3715	0.2149	0.0504
39	106.1350	0.6750	9724.7700	2312.6438	0.2233	0.0531
40	106.1475	0.6875	10089.5850	2436.4765	0.2316	0.0559
41	106.1600	0.7000	10454.4000	2564.8697	0.2400	0.0589
42	106.1850	0.7250	11287.4850	2836.5767	0.2591	0.0651
43	106.2100	0.7500	12120.5700	3129.1156	0.2782	0.0718
44	106.2350	0.7750	12953.6550	3442.4857	0.2974	0.0790
45	106.2600	0.8000	13786.7400	3776.6866	0.3165	0.0867
46	106.2850	0.8250	14619.8250	4131.7177	0.3356	0.0949
47	106.3100	0.8500	15452.9100	4507.5788	0.3548	0.1035
48	106.3350	0.8750	16285.9950	4904.2696	0.3739	0.1126
49	106.3600	0.9000	17119.0800	5321.7897	0.3930	0.1222
50	109.3300	3.8700	17119.0800	56165.4573	0.3930	1.2894

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| Variable storage data for node | CP-5
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	108.2800	0.0000	4.3560	0.0000	0.0001	0.0000
2	108.3050	0.0250	150.8265	1.5068	0.0035	0.0000
3	108.3300	0.0500	297.2970	7.0058	0.0068	0.0002
4	108.3550	0.0750	443.7675	16.2082	0.0102	0.0004
5	108.3800	0.1000	590.2380	29.0898	0.0135	0.0007
6	108.4050	0.1250	736.7085	45.6428	0.0169	0.0010
7	108.4300	0.1500	883.1790	65.8638	0.0203	0.0015
8	108.4550	0.1750	1029.6495	89.7507	0.0236	0.0021
9	108.4800	0.2000	1176.1200	117.3026	0.0270	0.0027
10	108.5050	0.2250	1475.5950	150.3783	0.0339	0.0035
11	108.5300	0.2500	1775.0700	190.9540	0.0408	0.0044
12	108.5550	0.2750	2074.5450	239.0256	0.0476	0.0055
13	108.5800	0.3000	2374.0200	294.5906	0.0545	0.0068
14	108.6050	0.3250	2673.4950	357.6475	0.0614	0.0082
15	108.6300	0.3500	2972.9700	428.1952	0.0683	0.0098
16	108.6550	0.3750	3272.4450	506.2330	0.0751	0.0116
17	108.6800	0.4000	3571.9200	591.7602	0.0820	0.0136
18	108.6925	0.4125	3773.3850	637.6626	0.0866	0.0146
19	108.7050	0.4250	3974.8500	686.0836	0.0912	0.0158
20	108.7175	0.4375	4176.3150	737.0232	0.0959	0.0169
21	108.7300	0.4500	4377.7800	790.4814	0.1005	0.0181
22	108.7425	0.4625	4579.2450	846.4581	0.1051	0.0194
23	108.7550	0.4750	4780.7100	904.9533	0.1098	0.0208
24	108.7675	0.4875	4982.1750	965.9670	0.1144	0.0222
25	108.7800	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	108.7925	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	108.8050	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	108.8175	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	108.8300	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	108.8425	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	108.8550	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	108.8675	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	108.8800	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	108.8925	0.6125	7900.6950	1761.8875	0.1814	0.0404
35	108.9050	0.6250	8265.5100	1862.9177	0.1897	0.0428
36	108.9175	0.6375	8630.3250	1968.5084	0.1981	0.0452
37	108.9300	0.6500	8995.1400	2078.6597	0.2065	0.0477
38	108.9425	0.6625	9359.9550	2193.3715	0.2149	0.0504
39	108.9550	0.6750	9724.7700	2312.6438	0.2233	0.0531
40	108.9675	0.6875	10089.5850	2436.4765	0.2316	0.0559
41	108.9800	0.7000	10454.4000	2564.8697	0.2400	0.0589
42	109.0050	0.7250	11287.4850	2836.5767	0.2591	0.0651
43	109.0300	0.7500	12120.5700	3129.1156	0.2782	0.0718
44	109.0550	0.7750	12953.6550	3442.4857	0.2974	0.0790
45	109.0800	0.8000	13786.7400	3776.6866	0.3165	0.0867
46	109.1050	0.8250	14619.8250	4131.7177	0.3356	0.0949
47	109.1300	0.8500	15452.9100	4507.5788	0.3548	0.1035
48	109.1550	0.8750	16285.9950	4904.2696	0.3739	0.1126
49	109.1800	0.9000	17119.0800	5321.7897	0.3930	0.1222
50	112.0000	3.7200	17119.0800	53597.5953	0.3930	1.2304

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| Variable storage data for node | CP-3
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	107.3500	0.0000	4.3560	0.0000	0.0001	0.0000
2	107.3750	0.0250	150.8265	1.5068	0.0035	0.0000
3	107.4000	0.0500	297.2970	7.0058	0.0068	0.0002
4	107.4250	0.0750	443.7675	16.2082	0.0102	0.0004
5	107.4500	0.1000	590.2380	29.0898	0.0135	0.0007
6	107.4750	0.1250	736.7085	45.6428	0.0169	0.0010
7	107.5000	0.1500	883.1790	65.8638	0.0203	0.0015
8	107.5250	0.1750	1029.6495	89.7507	0.0236	0.0021
9	107.5500	0.2000	1176.1200	117.3026	0.0270	0.0027
10	107.5750	0.2250	1475.5950	150.3783	0.0339	0.0035
11	107.6000	0.2500	1775.0700	190.9540	0.0408	0.0044
12	107.6250	0.2750	2074.5450	239.0256	0.0476	0.0055
13	107.6500	0.3000	2374.0200	294.5906	0.0545	0.0068
14	107.6750	0.3250	2673.4950	357.6475	0.0614	0.0082
15	107.7000	0.3500	2972.9700	428.1952	0.0683	0.0098
16	107.7250	0.3750	3272.4450	506.2330	0.0751	0.0116
17	107.7500	0.4000	3571.9200	591.7602	0.0820	0.0136
18	107.7625	0.4125	3773.3850	637.6626	0.0866	0.0146
19	107.7750	0.4250	3974.8500	686.0836	0.0912	0.0158
20	107.7875	0.4375	4176.3150	737.0232	0.0959	0.0169
21	107.8000	0.4500	4377.7800	790.4814	0.1005	0.0181
22	107.8125	0.4625	4579.2450	846.4581	0.1051	0.0194
23	107.8250	0.4750	4780.7100	904.9533	0.1098	0.0208

24	107.8375	0.4875	4982.1750	965.9670	0.1144	0.0222
25	107.8500	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	107.8625	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	107.8750	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	107.8875	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	107.9000	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	107.9125	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	107.9250	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	107.9375	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	107.9500	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	107.9625	0.6125	7900.6950	1761.8875	0.1814	0.0404
35	107.9750	0.6250	8265.5100	1862.9177	0.1897	0.0428
36	107.9875	0.6375	8630.3250	1968.5084	0.1981	0.0452
37	108.0000	0.6500	8995.1400	2078.6597	0.2065	0.0477
38	108.0125	0.6625	9359.9550	2193.3715	0.2149	0.0504
39	108.0250	0.6750	9724.7700	2312.6438	0.2233	0.0531
40	108.0375	0.6875	10089.5850	2436.4765	0.2316	0.0559
41	108.0500	0.7000	10454.4000	2564.8697	0.2400	0.0589
42	108.0750	0.7250	11287.4850	2836.5767	0.2591	0.0651
43	108.1000	0.7500	12120.5700	3129.1156	0.2782	0.0718
44	108.1250	0.7750	12953.6550	3442.4857	0.2974	0.0790
45	108.1500	0.8000	13786.7400	3776.6866	0.3165	0.0867
46	108.1750	0.8250	14619.8250	4131.7177	0.3356	0.0949
47	108.2000	0.8500	15452.9100	4507.5788	0.3548	0.1035
48	108.2250	0.8750	16285.9950	4904.2696	0.3739	0.1126
49	108.2500	0.9000	17119.0800	5321.7897	0.3930	0.1222
50	112.1600	4.8100	17119.0800	72257.3925	0.3930	1.6588

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| Variable storage data for node | CP-2
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	107.9500	0.0000	4.3560	0.0000	0.0001	0.0000
2	107.9750	0.0250	150.8265	1.5068	0.0035	0.0000
3	108.0000	0.0500	297.2970	7.0058	0.0068	0.0002
4	108.0250	0.0750	443.7675	16.2082	0.0102	0.0004
5	108.0500	0.1000	590.2380	29.0898	0.0135	0.0007
6	108.0750	0.1250	736.7085	45.6428	0.0169	0.0010
7	108.1000	0.1500	883.1790	65.8638	0.0203	0.0015
8	108.1250	0.1750	1029.6495	89.7507	0.0236	0.0021
9	108.1500	0.2000	1176.1200	117.3026	0.0270	0.0027
10	108.1750	0.2250	1475.5950	150.3783	0.0339	0.0035
11	108.2000	0.2500	1775.0700	190.9540	0.0408	0.0044
12	108.2250	0.2750	2074.5450	239.0256	0.0476	0.0055
13	108.2500	0.3000	2374.0200	294.5906	0.0545	0.0068
14	108.2750	0.3250	2673.4950	357.6475	0.0614	0.0082
15	108.3000	0.3500	2972.9700	428.1952	0.0683	0.0098
16	108.3250	0.3750	3272.4450	506.2330	0.0751	0.0116
17	108.3500	0.4000	3571.9200	591.7602	0.0820	0.0136
18	108.3625	0.4125	3773.3850	637.6626	0.0866	0.0146
19	108.3750	0.4250	3974.8500	686.0836	0.0912	0.0158
20	108.3875	0.4375	4176.3150	737.0232	0.0959	0.0169
21	108.4000	0.4500	4377.7800	790.4814	0.1005	0.0181
22	108.4125	0.4625	4579.2450	846.4581	0.1051	0.0194
23	108.4250	0.4750	4780.7100	904.9533	0.1098	0.0208
24	108.4375	0.4875	4982.1750	965.9670	0.1144	0.0222
25	108.4500	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	108.4625	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	108.4750	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	108.4875	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	108.5000	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	108.5125	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	108.5250	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	108.5375	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	108.5500	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	108.5625	0.6125	7900.6950	1761.8875	0.1814	0.0404
35	108.5750	0.6250	8265.5100	1862.9177	0.1897	0.0428
36	108.5875	0.6375	8630.3250	1968.5084	0.1981	0.0452
37	108.6000	0.6500	8995.1400	2078.6597	0.2065	0.0477
38	108.6125	0.6625	9359.9550	2193.3715	0.2149	0.0504
39	108.6250	0.6750	9724.7700	2312.6438	0.2233	0.0531
40	108.6375	0.6875	10089.5850	2436.4765	0.2316	0.0559
41	108.6500	0.7000	10454.4000	2564.8697	0.2400	0.0589
42	108.6750	0.7250	11287.4850	2836.5767	0.2591	0.0651
43	108.7000	0.7500	12120.5700	3129.1156	0.2782	0.0718
44	108.7250	0.7750	12953.6550	3442.4857	0.2974	0.0790
45	108.7500	0.8000	13786.7400	3776.6866	0.3165	0.0867
46	108.7750	0.8250	14619.8250	4131.7177	0.3356	0.0949
47	108.8000	0.8500	15452.9100	4507.5788	0.3548	0.1035
48	108.8250	0.8750	16285.9950	4904.2696	0.3739	0.1126
49	108.8500	0.9000	17119.0800	5321.7897	0.3930	0.1222
50	112.5600	4.6100	17119.0800	68833.5765	0.3930	1.5802

==================================
| Variable storage data for node | CU-3
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	104.3500	0.0000	4.3560	0.0000	0.0001	0.0000
2	104.3750	0.0250	150.8265	1.5068	0.0035	0.0000
3	104.4000	0.0500	297.2970	7.0058	0.0068	0.0002
4	104.4250	0.0750	443.7675	16.2082	0.0102	0.0004
5	104.4500	0.1000	590.2380	29.0898	0.0135	0.0007
6	104.4750	0.1250	736.7085	45.6428	0.0169	0.0010
7	104.5000	0.1500	883.1790	65.8638	0.0203	0.0015
8	104.5250	0.1750	1029.6495	89.7507	0.0236	0.0021
9	104.5500	0.2000	1176.1200	117.3026	0.0270	0.0027
10	104.5750	0.2250	1475.5950	150.3783	0.0339	0.0035
11	104.6000	0.2500	1775.0700	190.9540	0.0408	0.0044
12	104.6250	0.2750	2074.5450	239.0256	0.0476	0.0055
13	104.6500	0.3000	2374.0200	294.5906	0.0545	0.0068
14	104.6750	0.3250	2673.4950	357.6475	0.0614	0.0082
15	104.7000	0.3500	2972.9700	428.1952	0.0683	0.0098
16	104.7250	0.3750	3272.4450	506.2330	0.0751	0.0116
17	104.7500	0.4000	3571.9200	591.7602	0.0820	0.0136
18	104.7625	0.4125	3773.3850	637.6626	0.0866	0.0146
19	104.7750	0.4250	3974.8500	686.0836	0.0912	0.0158
20	104.7875	0.4375	4176.3150	737.0232	0.0959	0.0169
21	104.8000	0.4500	4377.7800	790.4814	0.1005	0.0181
22	104.8125	0.4625	4579.2450	846.4581	0.1051	0.0194
23	104.8250	0.4750	4780.7100	904.9533	0.1098	0.0208
24	104.8375	0.4875	4982.1750	965.9670	0.1144	0.0222
25	104.8500	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	104.8625	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	104.8750	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	104.8875	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	104.9000	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	104.9125	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	104.9250	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	104.9375	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	104.9500	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	104.9625	0.6125	7900.6950	1761.8875	0.1814	0.0404
35	104.9750	0.6250	8265.5100	1862.9177	0.1897	0.0428
36	104.9875	0.6375	8630.3250	1968.5084	0.1981	0.0452
37	105.0000	0.6500	8995.1400	2078.6597	0.2065	0.0477

38	105.0125	0.6625	9359.9550	2193.3715	0.2149	0.0504
39	105.0250	0.6750	9724.7700	2312.6438	0.2233	0.0531
40	105.0375	0.6875	10089.5850	2436.4765	0.2316	0.0559
41	105.0500	0.7000	10454.4000	2564.8697	0.2400	0.0589
42	105.0750	0.7250	11287.4850	2836.5767	0.2591	0.0651
43	105.1000	0.7500	12120.5700	3129.1156	0.2782	0.0718
44	105.1250	0.7750	12953.6550	3442.4857	0.2974	0.0790
45	105.1500	0.8000	13786.7400	3776.6866	0.3165	0.0867
46	105.1750	0.8250	14619.8250	4131.7177	0.3356	0.0949
47	105.2000	0.8500	15452.9100	4507.5788	0.3548	0.1035
48	105.2250	0.8750	16285.9950	4904.2696	0.3739	0.1126
49	105.2500	0.9000	17119.0800	5321.7897	0.3930	0.1222
50	108.1100	3.7600	17119.0800	54282.3585	0.3930	1.2462

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| Variable storage data for node | CU-2
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	105.1200	0.0000	4.3560	0.0000	0.0001	0.0000
2	105.1450	0.0250	150.8265	1.5068	0.0035	0.0000
3	105.1700	0.0500	297.2970	7.0058	0.0068	0.0002
4	105.1950	0.0750	443.7675	16.2082	0.0102	0.0004
5	105.2200	0.1000	590.2380	29.0898	0.0135	0.0007
6	105.2450	0.1250	736.7085	45.6428	0.0169	0.0010
7	105.2700	0.1500	883.1790	65.8638	0.0203	0.0015
8	105.2950	0.1750	1029.6495	89.7507	0.0236	0.0021
9	105.3200	0.2000	1176.1200	117.3026	0.0270	0.0027
10	105.3450	0.2250	1475.5950	150.3783	0.0339	0.0035
11	105.3700	0.2500	1775.0700	190.9540	0.0408	0.0044
12	105.3950	0.2750	2074.5450	239.0256	0.0476	0.0055
13	105.4200	0.3000	2374.0200	294.5906	0.0545	0.0068
14	105.4450	0.3250	2673.4950	357.6475	0.0614	0.0082
15	105.4700	0.3500	2972.9700	428.1952	0.0683	0.0098
16	105.4950	0.3750	3272.4450	506.2330	0.0751	0.0116
17	105.5200	0.4000	3571.9200	591.7602	0.0820	0.0136
18	105.5325	0.4125	3773.3850	637.6626	0.0866	0.0146
19	105.5450	0.4250	3974.8500	686.0836	0.0912	0.0158
20	105.5575	0.4375	4176.3150	737.0232	0.0959	0.0169
21	105.5700	0.4500	4377.7800	790.4814	0.1005	0.0181
22	105.5825	0.4625	4579.2450	846.4581	0.1051	0.0194
23	105.5950	0.4750	4780.7100	904.9533	0.1098	0.0208
24	105.6075	0.4875	4982.1750	965.9670	0.1144	0.0222
25	105.6200	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	105.6325	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	105.6450	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	105.6575	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	105.6700	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	105.6825	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	105.6950	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	105.7075	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	105.7200	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	105.7325	0.6125	7900.6950	1761.8875	0.1814	0.0404
35	105.7450	0.6250	8265.5100	1862.9177	0.1897	0.0428
36	105.7575	0.6375	8630.3250	1968.5084	0.1981	0.0452
37	105.7700	0.6500	8995.1400	2078.6597	0.2065	0.0477
38	105.7825	0.6625	9359.9550	2193.3715	0.2149	0.0504
39	105.7950	0.6750	9724.7700	2312.6438	0.2233	0.0531
40	105.8075	0.6875	10089.5850	2436.4765	0.2316	0.0559
41	105.8200	0.7000	10454.4000	2564.8697	0.2400	0.0589
42	105.8450	0.7250	11287.4850	2836.5767	0.2591	0.0651
43	105.8700	0.7500	12120.5700	3129.1156	0.2782	0.0718
44	105.8950	0.7750	12953.6550	3442.4857	0.2974	0.0790
45	105.9200	0.8000	13786.7400	3776.6866	0.3165	0.0867
46	105.9450	0.8250	14619.8250	4131.7177	0.3356	0.0949
47	105.9700	0.8500	15452.9100	4507.5788	0.3548	0.1035
48	105.9950	0.8750	16285.9950	4904.2696	0.3739	0.1126
49	106.0200	0.9000	17119.0800	5321.7897	0.3930	0.1222
50	108.5400	3.4200	17119.0800	48461.8713	0.3930	1.1125

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| Variable storage data for node | CO-3
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	109.5900	0.0000	4.3560	0.0000	0.0001	0.0000
2	109.6150	0.0250	150.8265	1.5068	0.0035	0.0000
3	109.6400	0.0500	297.2970	7.0058	0.0068	0.0002
4	109.6650	0.0750	443.7675	16.2082	0.0102	0.0004
5	109.6900	0.1000	590.2380	29.0898	0.0135	0.0007
6	109.7150	0.1250	736.7085	45.6428	0.0169	0.0010
7	109.7400	0.1500	883.1790	65.8638	0.0203	0.0015
8	109.7650	0.1750	1029.6495	89.7507	0.0236	0.0021
9	109.7900	0.2000	1176.1200	117.3026	0.0270	0.0027
10	109.8150	0.2250	1475.5950	150.3783	0.0339	0.0035
11	109.8400	0.2500	1775.0700	190.9540	0.0408	0.0044
12	109.8650	0.2750	2074.5450	239.0256	0.0476	0.0055
13	109.8900	0.3000	2374.0200	294.5906	0.0545	0.0068
14	109.9150	0.3250	2673.4950	357.6475	0.0614	0.0082
15	109.9400	0.3500	2972.9700	428.1952	0.0683	0.0098
16	109.9650	0.3750	3272.4450	506.2330	0.0751	0.0116
17	109.9900	0.4000	3571.9200	591.7602	0.0820	0.0136
18	110.0025	0.4125	3773.3850	637.6626	0.0866	0.0146
19	110.0150	0.4250	3974.8500	686.0836	0.0912	0.0158
20	110.0275	0.4375	4176.3150	737.0232	0.0959	0.0169
21	110.0400	0.4500	4377.7800	790.4814	0.1005	0.0181
22	110.0525	0.4625	4579.2450	846.4581	0.1051	0.0194
23	110.0650	0.4750	4780.7100	904.9533	0.1098	0.0208
24	110.0775	0.4875	4982.1750	965.9670	0.1144	0.0222
25	110.0900	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	110.1025	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	110.1150	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	110.1275	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	110.1400	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	110.1525	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	110.1650	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	110.1775	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	110.1900	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	110.2025	0.6125	7900.6950	1761.8875	0.1814	0.0404
35	110.2150	0.6250	8265.5100	1862.9177	0.1897	0.0428
36	110.2275	0.6375	8630.3250	1968.5084	0.1981	0.0452
37	110.2400	0.6500	8995.1400	2078.6597	0.2065	0.0477
38	110.2525	0.6625	9359.9550	2193.3715	0.2149	0.0504
39	110.2650	0.6750	9724.7700	2312.6438	0.2233	0.0531
40	110.2775	0.6875	10089.5850	2436.4765	0.2316	0.0559
41	110.2900	0.7000	10454.4000	2564.8697	0.2400	0.0589
42	110.3150	0.7250	11287.4850	2836.5767	0.2591	0.0651
43	110.3400	0.7500	12120.5700	3129.1156	0.2782	0.0718
44	110.3650	0.7750	12953.6550	3442.4857	0.2974	0.0790
45	110.3900	0.8000	13786.7400	3776.6866	0.3165	0.0867
46	110.4150	0.8250	14619.8250	4131.7177	0.3356	0.0949
47	110.4400	0.8500	15452.9100	4507.5788	0.3548	0.1035
48	110.4650	0.8750	16285.9950	4904.2696	0.3739	0.1126
49	110.4900	0.9000	17119.0800	5321.7897	0.3930	0.1222
50	114.2000	4.6100	17119.0800	68833.5765	0.3930	1.5802

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*=============================================*
|          FREE OUTFALL DATA (DATA GROUP I1)     |
|       BOUNDARY CONDITION ON DATA GROUP J1    |
*=============================================*

Outfall at Junction....6325             has boundary condition number...         1


*=============================================*
|        INTERNAL CONNECTIVITY INFORMATION       |
*=============================================*

         CONDUIT         JUNCTION         JUNCTION
---------------- ---------------- ----------------
        FREE # 1             6325         BOUNDARY

*=================================================*
|         Boundary Condition Information          |
|                Data Groups J1-J4                |
*=================================================*



*====================================*
|  Outlet: 6325                      |
|  Downstream Rating Curve Information  |
|  for Boundary Condition =     1.      |
*====================================*

 No. Flow(cfs) Depth(ft)  No. Flow(cfs) Depth(ft)  No. Flow(cfs) Depth(ft)
 --- -------- ---------   --- -------- ---------  --- -------- ---------
   1      0.00     0.630    2    600.00     7.700    3    890.00     9.110
   4   1100.00     9.720    5   1530.00    10.180

*=================================================*
|              XP Note Field Summary              |
*=================================================*

*=================================================*
|        Table E9 - JUNCTION SUMMARY STATISTICS      |
| The Maximum area is only the area of the node, it  |
| does not include the area of the surrounding conduits|
*=================================================*

                          Uppermost   Maximum     Time        Feet of             Maximum   Maximum   Maximum   Maximum
                Ground PipeCrown  Junction      of       Surcharge  Freeboard Junction    Gutter    Gutter    Gutter
      Junction Elevation Elevation Elevation    Occurence    at Max  of node      Area     Depth     Width  Velocity
          Name      feet      feet      feet   Hr. Min.   Elevation     feet      ft^2      feet      feet     ft/s
--------------  --------- --------- ---------  --------- ---------  --------  -------- --------- --------- ---------
         CT-11a    194.5000  103.4800  109.0368     17   42      5.5568  85.4632   12.5660    0.0000    0.0000    0.0000
         CT-14a    194.5000  103.6600  109.0543     17   42      5.3943  85.4457   12.5660    0.0000    0.0000    0.0000
         CT-23a    194.5000  104.0200  109.1564     17   51      5.1364  85.3436   12.5660    0.0000    0.0000    0.0000
           CB-9    108.9900  105.4900  109.1282     17   51      3.6382   0.0000  813.8160    0.0000    0.0000    0.0000
           CB-7    108.9900  105.4900  109.0697     17   46      3.5797   0.0000  471.5085    0.0000    0.0000    0.0000
           CB-5    108.9900  105.4900  109.0474     17   42      3.5574   0.0000  340.3788    0.0000    0.0000    0.0000
           CO-9    112.2200  109.8400  112.8656     17   16      3.0256   0.0000 8866.0302    0.0000    0.0000    0.0000
           CT-8    194.5000  103.3000  109.0905     17   47      5.7905  85.4095   12.5660    0.0000    0.0000    0.0000
           CA-8    107.4900  104.4900  109.0230     17   36      4.5330   0.0000 17119.080    0.0000    0.0000    0.0000
           CT-7    194.5000  103.2500  109.1069     17   47      5.8569  85.3931   12.5660    0.0000    0.0000    0.0000
           CA-6    106.8900  103.8900  109.1350     17   24      5.2450   0.0000 17119.080    0.0000    0.0000    0.0000
           CT-5    194.5000  103.1800  109.1240     17   47      5.9440  85.3760   12.5660    0.0000    0.0000    0.0000
           CB-3    108.9900  105.4900  109.0296     17   40      3.5396   0.0000  236.1793    0.0000    0.0000    0.0000
           CA-4    107.7200  104.2200  109.1954     17   14      4.9754   0.0000 17119.080    0.0000    0.0000    0.0000
           CT-3    194.5000  103.1200  109.1309     17   47      6.0109  85.3691   12.5660    0.0000    0.0000    0.0000
           CB-1    108.7900  105.2900  109.1320     17   25      3.8420   0.0000 2876.8926    0.0000    0.0000    0.0000
           CT-1    194.5000  103.0200  109.1250     17   47      6.1050  85.3750   12.5660    0.0000    0.0000    0.0000
           CB-2    107.0300  104.9200  109.1310     17   25      4.2110   0.0000 40873.017    0.0000    0.0000    0.0000
           CB-4    107.2500  105.1100  109.0291     17   39      3.9191   0.0000 29624.084    0.0000    0.0000    0.0000
           CT-9    194.5000  103.3700  109.0569     17   45      5.6869  85.4431   12.5660    0.0000    0.0000    0.0000
           CB-6    107.2500  105.1400  109.0470     17   43      3.9070   0.0000 30158.460    0.0000    0.0000    0.0000
           CB-8    107.2500  105.1700  109.0693     17   45      3.8993   0.0000 30838.406    0.0000    0.0000    0.0000
         CT-27A    194.5000  104.2000  109.1940     17   52      4.9940  85.3060   12.5660    0.0000    0.0000    0.0000
          CA-37    107.7100  103.7100  109.3392     18    0      5.6292   0.0000 17119.080    0.0000    0.0000    0.0000
          CT-39    194.5000  104.7500  109.3145     18    2      4.5645  85.1855   12.5660    0.0000    0.0000    0.0000
          CT-38    194.5000  104.7000  109.3132     18    2      4.6132  85.1868   12.5660    0.0000    0.0000    0.0000
          CT-37    106.5000  104.6500  109.3122     18    2      4.6622   0.0000 83230.264    0.0000    0.0000    0.0000
          CA-36    106.7400  103.7400  109.3126     18    2      5.5726   0.0000 17119.080    0.0000    0.0000    0.0000
          CB-26    125.5400  120.6600  109.3122     18    2      0.0000  16.2278   12.5660    0.0000    0.0000    0.0000
          CB-29    126.5000  123.1300  122.0054     16    0      0.0000   4.4946   12.5660    0.0000    0.0000    0.0000
          CB-28    127.5000  123.5000  122.4865     16    0      0.0000   5.0135   12.5660    0.0000    0.0000    0.0000
          CA-35    106.9500  104.9500  109.5312     17   23      5.5312   0.0000 17119.080    0.0000    0.0000    0.0000
          CT-36    194.5000  104.6000  109.3109     18    1      4.7109  85.1891   12.5660    0.0000    0.0000    0.0000
          CT-35    194.5000  104.5500  109.3064     18    0      4.7564  85.1936   12.5660    0.0000    0.0000    0.0000
          CB-18    113.8500  103.5700  109.2355     17   54      5.6655   4.6145   12.5660    0.0000    0.0000    0.0000
          CA-34    106.8800  103.8800  109.3049     18    0      5.4249   0.0000 17119.080    0.0000    0.0000    0.0000
          CT-34    194.5000  104.5200  109.3043     18    0      4.7843  85.1957   12.5660    0.0000    0.0000    0.0000
          CA-33    106.6500  103.6500  111.1103     17   19      7.4603   0.0000 17119.080    0.0000    0.0000    0.0000
          CT-33    106.4000  104.4100  109.3013     18    0      4.8913   0.0000 90989.969    0.0000    0.0000    0.0000
          CA-32    106.9600  103.9600  109.2758     17   56      5.3158   0.0000 17119.080    0.0000    0.0000    0.0000
          CT-32    194.5000  104.4100  109.2750     17   56      4.8650  85.2250   12.5660    0.0000    0.0000    0.0000
          CT-31    194.5000  104.3700  109.2555     17   54      4.8855  85.2445   12.5660    0.0000    0.0000    0.0000
          CA-31    107.0300  104.0300  109.5323     17   10      5.5023   0.0000 17119.080    0.0000    0.0000    0.0000
          CT-30    194.5000  104.3000  109.2354     17   53      4.9354  85.2646   12.5660    0.0000    0.0000    0.0000
          CT-29    194.5000  104.2700  109.2187     17   53      4.9487  85.2813   12.5660    0.0000    0.0000    0.0000
          CA-27    107.3600  104.3600  109.1911     17   53      4.8311   0.0000 17119.080    0.0000    0.0000    0.0000
          CT-27    194.5000  104.1800  109.1905     17   52      5.0105  85.3095   12.5660    0.0000    0.0000    0.0000
          CA-26    113.3700  104.3700  109.1768     17   52      4.8068   4.1932   12.5660    0.0000    0.0000    0.0000
          CT-26    194.5000  104.1200  109.1767     17   52      5.0567  85.3233   12.5660    0.0000    0.0000    0.0000
          CA-25    107.1700  104.1700  109.1707     17   53      5.0007   0.0000 17119.080    0.0000    0.0000    0.0000
          CT-25    194.5000  104.0900  109.1686     17   52      5.0786  85.3314   12.5660    0.0000    0.0000    0.0000
          CA-24    106.9200  103.9200  109.1599     17   51      5.2399   0.0000 17119.080    0.0000    0.0000    0.0000
          CT-24    194.5000  104.0400  109.1595     17   52      5.1195  85.3405   12.5660    0.0000    0.0000    0.0000
          CT-23    194.5000  104.0100  109.1547     17   51      5.1447  85.3453   12.5660    0.0000    0.0000    0.0000
          CA-23    107.0100  104.0100  109.1551     17   51      5.1451   0.0000 17119.080    0.0000    0.0000    0.0000
          CA-22    107.1800  104.1800  109.1500     17   51      4.9700   0.0000 17119.080    0.0000    0.0000    0.0000
          CT-22    194.5000  103.9800  109.1495     17   51      5.1695  85.3505   12.5660    0.0000    0.0000    0.0000
          CA-21    107.4000  104.4000  109.1460     17   51      4.7460   0.0000 17119.080    0.0000    0.0000    0.0000
          CT-21    194.5000  103.9400  109.1430     17   51      5.2030  85.3570   12.5660    0.0000    0.0000    0.0000
          CT-20    194.5000  103.9100  109.1365     17   50      5.2265  85.3635   12.5660    0.0000    0.0000    0.0000
          CA-20    107.6100  104.6100  109.1370     17   50      4.5270   0.0000 17119.080    0.0000    0.0000    0.0000
          CA-19    107.8100  104.8100  109.1313     17   51      4.3213   0.0000 17119.080    0.0000    0.0000    0.0000
          CT-19    194.5000  103.8800  109.1304     17   50      5.2504  85.3696   12.5660    0.0000    0.0000    0.0000
          CT-18    194.5000  103.8400  109.1238     17   49      5.2838  85.3762   12.5660    0.0000    0.0000    0.0000
          CA-18    108.0200  105.0200  109.1316     17   51      4.1116   0.0000 17119.080    0.0000    0.0000    0.0000
          CA-17    107.5600  104.5600  109.1085     17   48      4.5485   0.0000 17119.080    0.0000    0.0000    0.0000
          CT-17    194.5000  103.7600  109.1078     17   48      5.3478  85.3922   12.5660    0.0000    0.0000    0.0000
          CA-15    107.3300  104.3300  109.0739     17   43      4.7439   0.0000 17119.080    0.0000    0.0000    0.0000
          CT-15    107.2000  103.6800  109.0574     17   43      5.3774   0.0000 32036.808    0.0000    0.0000    0.0000
          CA-13    107.7500  104.7500  109.0486     17   39      4.2986   0.0000 17119.080    0.0000    0.0000    0.0000
          CT-13    194.5000  103.5900  109.0474     17   42      5.4574  85.4526   12.5660    0.0000    0.0000    0.0000
          CA-12    107.7100  104.7100  109.0415     17   38      4.3315   0.0000 17119.080    0.0000    0.0000    0.0000
          CT-12    194.5000  103.5100  109.0396     17   42      5.5296  85.4604   12.5660    0.0000    0.0000    0.0000
          CT-11    194.5000  103.4600  109.0353     17   42      5.5753  85.4647   12.5660    0.0000    0.0000    0.0000
          CA-11    107.4400  104.4400  109.0583     17   38      4.6183   0.0000 17119.080    0.0000    0.0000    0.0000
          CT-10    106.9200  103.4200  109.0305     17   42      5.6105   0.0000 41263.507    0.0000    0.0000    0.0000
          CT-98    194.5000  102.8700  109.1020     17   47      6.2320  85.3980   12.5660    0.0000    0.0000    0.0000
          CT-99    194.5000  102.8100  109.0876     17   47      6.2776  85.4124   12.5660    0.0000    0.0000    0.0000
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CB-10	107.7000	105.7600	109.1279	17	51	3.3679	0.0000	20849.418	0.0000	0.0000	0.0000
CB-11	108.9900	105.4900	109.1596	17	50	3.6696	0.0000	998.0975	0.0000	0.0000	0.0000
CB-15	109.0000	105.4900	109.1997	17	53	3.7097	0.0000	1174.4421	0.0000	0.0000	0.0000
CB-14	108.2900	105.2300	109.1903	17	53	3.9693	0.0000	12413.024	0.0000	0.0000	0.0000
CB-16	113.8500	105.0500	110.2621	16	36	5.2121	3.5879	12.5660	0.0000	0.0000	0.0000
CB-17	109.1100	105.6100	110.2970	16	41	4.6870	0.0000	17119.080	0.0000	0.0000	0.0000
X-43	109.5000	104.2700	109.6314	18	45	5.3614	0.0000	5742.2868	0.0000	0.0000	0.0000
X-42	109.5000	104.2700	109.6253	18	45	5.3553	0.0000	5667.5084	0.0000	0.0000	0.0000
X-41	109.5000	104.2700	109.6297	18	16	5.3597	0.0000	5692.6705	0.0000	0.0000	0.0000
X-40	109.5000	104.2700	109.6251	18	45	5.3551	0.0000	5666.4628	0.0000	0.0000	0.0000
CB-19	113.8500	103.5700	109.2570	17	54	5.6870	4.5930	12.5660	0.0000	0.0000	0.0000
CP-4	111.7800	109.0500	112.8554	17	21	3.8054	0.0000	17119.080	0.0000	0.0000	0.0000
CP-6	112.3000	110.5000	113.5959	17	4	3.0959	0.0000	17119.080	0.0000	0.0000	0.0000
CQ-10	110.6500	110.0500	110.6671	16	55	0.6171	0.0000	104.4594	0.0000	0.0000	0.0000
CS-2	112.1000	110.2000	113.4015	17	14	3.2015	0.0000	18374.917	0.0000	0.0000	0.0000
X-39	109.5000	104.1600	109.2499	17	23	5.0899	0.2501	12.5660	0.0000	0.0000	0.0000
X-38	109.5000	104.1600	109.2496	17	23	5.0896	0.2504	12.5660	0.0000	0.0000	0.0000
X-37	109.5000	104.1600	109.2496	17	23	5.0896	0.2504	12.5660	0.0000	0.0000	0.0000
X-36	109.5000	104.1600	109.2496	17	23	5.0896	0.2504	12.5660	0.0000	0.0000	0.0000
X-35	109.5000	105.2200	109.2421	17	25	4.0221	0.2579	12.5660	0.0000	0.0000	0.0000
X-34	109.5000	105.2200	109.2423	17	25	4.0223	0.2577	12.5660	0.0000	0.0000	0.0000
X-33	109.5000	105.2200	109.2420	17	25	4.0220	0.2580	12.5660	0.0000	0.0000	0.0000
X-32	109.5000	105.2200	109.2420	17	25	4.0220	0.2580	12.5660	0.0000	0.0000	0.0000
X-31	108.5000	106.4500	109.2372	17	30	2.7872	0.0000	10450.493	0.0000	0.0000	0.0000
X-30	108.5000	106.4500	109.2382	17	30	2.7882	0.0000	10460.782	0.0000	0.0000	0.0000
X-29	108.5000	106.4500	109.2370	17	30	2.7870	0.0000	10448.213	0.0000	0.0000	0.0000
X-28	109.5000	106.4500	109.2367	17	31	2.7867	0.2633	12.5660	0.0000	0.0000	0.0000
X-27	109.5000	108.1300	109.2632	17	23	1.1332	0.2368	12.5660	0.0000	0.0000	0.0000
X-26	109.5000	108.1300	109.2632	17	23	1.1332	0.2368	12.5660	0.0000	0.0000	0.0000
X-25	109.5000	108.1300	109.2632	17	23	1.1332	0.2368	12.5660	0.0000	0.0000	0.0000
X-24	109.5000	109.2700	109.2626	17	20	0.0000	0.2374	12.5660	0.0000	0.0000	0.0000
X-23	109.5000	109.2700	109.2626	17	20	0.0000	0.2374	12.5660	0.0000	0.0000	0.0000
X-22	109.5000	109.2700	109.2626	17	20	0.0000	0.2374	12.5660	0.0000	0.0000	0.0000
X-21	109.5000	109.2700	109.2626	17	20	0.0000	0.2374	12.5660	0.0000	0.0000	0.0000
CO-1	114.3000	112.2000	112.8877	17	9	0.6877	1.4123	12.5660	0.0000	0.0000	0.0000
CO-5	114.0400	111.0000	112.8715	17	15	1.8715	1.1685	12.5660	0.0000	0.0000	0.0000
CN-1	111.1900	110.4400	112.9235	17	7	2.4835	0.0000	28301.819	0.0000	0.0000	0.0000
CN-2	110.6900	109.6600	112.8069	17	22	3.1469	0.0000	41525.467	0.0000	0.0000	0.0000
CN-3	110.6100	109.1600	112.7570	17	26	3.5970	0.0000	42794.457	0.0000	0.0000	0.0000
CN-4	110.2800	108.5200	112.6838	17	26	4.1638	0.0000	55324.204	0.0000	0.0000	0.0000
CN-5	110.0000	107.7200	112.0193	17	23	4.2993	0.0000	37664.896	0.0000	0.0000	0.0000
CN-6	110.0000	106.7600	111.1623	17	11	4.4023	0.0000	15986.466	0.0000	0.0000	0.0000
CN-7	109.6000	106.1200	110.5529	17	5	4.4329	0.0000	12966.514	0.0000	0.0000	0.0000
CN-8	107.5300	104.5600	109.6678	17	23	5.1078	0.0000	42402.339	0.0000	0.0000	0.0000
6863.3	112.5500	112.5200	109.0678	17	16	0.0000	3.4822	12.5660	0.0000	0.0000	0.0000
CR-8	108.8300	107.2700	109.6780	17	26	2.4080	0.0000	15384.984	0.0000	0.0000	0.0000
CR-6	110.4500	106.4400	109.6706	17	23	3.2306	0.7794	12.5660	0.0000	0.0000	0.0000
CR-5	110.5900	107.0600	109.6753	17	22	2.6153	0.9147	12.5660	0.0000	0.0000	0.0000
CR-3	109.9000	108.3800	109.7010	17	10	1.3210	0.1990	12.5660	0.0000	0.0000	0.0000
CR-1	110.4000	109.0000	109.7190	17	7	0.7190	0.6810	12.5660	0.0000	0.0000	0.0000
CQ-9	111.3700	109.7700	110.6410	16	58	0.8710	0.7290	12.5660	0.0000	0.0000	0.0000
CQ-8	111.3900	106.9800	110.8621	16	51	3.8821	0.5279	12.5660	0.0000	0.0000	0.0000
CQ-7	111.5800	107.6200	111.7355	16	38	4.1155	0.0000	915.1926	0.0000	0.0000	0.0000
CQ-5	111.8800	108.5200	112.3232	16	36	3.8032	0.0000	4268.5135	0.0000	0.0000	0.0000
CQ-3	111.6100	109.3800	112.8170	16	51	3.4370	0.0000	17119.080	0.0000	0.0000	0.0000
CP-1	112.1100	110.2500	113.0318	17	8	2.7818	0.0000	17119.080	0.0000	0.0000	0.0000
CO-10	112.4800	110.5000	113.7636	17	2	3.2636	0.0000	17119.080	0.0000	0.0000	0.0000
CQ-1	112.1600	109.7200	112.8208	16	50	3.1008	0.0000	9310.4701	0.0000	0.0000	0.0000
CS-1	112.1000	111.0000	113.8914	17	6	2.8914	0.0000	29988.350	0.0000	0.0000	0.0000
CT2-1	108.8200	107.3400	108.9591	17	18	1.6191	0.0000	819.0724	0.0000	0.0000	0.0000
CT2-2	109.3300	106.9600	108.9646	17	20	2.0046	0.3654	12.5660	0.0000	0.0000	0.0000
6832	112.8400	112.8400	108.9737	17	31	0.0000	3.8663	12.5660	0.0000	0.0000	0.0000
CP-5	112.0000	109.7800	113.1776	17	32	3.3976	0.0000	17119.080	0.0000	0.0000	0.0000
CP-3	112.1600	109.3500	112.9095	17	20	3.5595	0.0000	12104.320	0.0000	0.0000	0.0000
CP-2	112.5600	109.9500	113.0304	17	8	3.0804	0.0000	4706.9167	0.0000	0.0000	0.0000
CU-3	108.1100	106.3500	109.3285	17	27	2.9785	0.0000	17119.080	0.0000	0.0000	0.0000
CU-2	108.5400	106.6200	109.8446	17	59	3.2246	0.0000	17119.080	0.0000	0.0000	0.0000
7253.3	112.5600	112.5600	109.6546	17	14	0.0000	2.9054	12.5660	0.0000	0.0000	0.0000
7185	112.5500	112.5200	109.2959	17	27	0.0000	3.2541	12.5660	0.0000	0.0000	0.0000
6325	112.5500	111.0900	107.0954	17	31	0.0000	5.4546	12.5660	0.0000	0.0000	0.0000
CO-3	114.2000	111.5900	112.8829	17	10	1.2929	1.3171	12.5660	0.0000	0.0000	0.0000
RD-1	109.5000	109.4400	109.2626	17	20	0.0000	0.2374	12.5660	0.0000	0.0000	0.0000
RD-2	109.5000	108.2960	109.2631	17	23	0.9671	0.2369	12.5660	0.0000	0.0000	0.0000
RD-5	109.5000	107.1150	109.2366	17	31	2.1216	0.2634	12.5660	0.0000	0.0000	0.0000
RD-6	109.5000	105.8900	109.2419	17	25	3.3519	0.2581	12.5660	0.0000	0.0000	0.0000
RD-7	109.5000	104.8360	109.2491	17	23	4.4131	0.2509	12.5660	0.0000	0.0000	0.0000
RD-8	109.5000	104.9360	109.6212	17	56	4.6852	0.0000	5658.1658	0.0000	0.0000	0.0000
RD-3	109.5000	107.7880	109.2587	17	23	1.4707	0.2413	12.5660	0.0000	0.0000	0.0000
RD-4	109.5000	107.7280	109.2393	17	31	1.5113	0.2607	12.5660	0.0000	0.0000	0.0000
RD-9	109.5000	104.2880	110.5394	17	31	6.2514	0.0000	14136.929	0.0000	0.0000	0.0000
RD-10	109.5000	105.3750	110.8141	17	33	5.4391	0.0000	18606.725	0.0000	0.0000	0.0000
7216.8	112.5500	112.5300	109.3420	17	24	0.0000	3.2080	12.5660	0.0000	0.0000	0.0000
CS-3	110.5000	110.4000	112.9319	17	32	2.5319	0.0000	56900.230	0.0000	0.0000	0.0000
CS-4	110.5000	110.4500	112.8510	17	38	2.4010	0.0000	52478.735	0.0000	0.0000	0.0000
CS-5	110.5000	109.7500	111.5800	16	58	1.8300	0.0000	14723.022	0.0000	0.0000	0.0000
CS-6	110.5000	109.6500	109.9837	16	17	0.3337	0.5163	12.5660	0.0000	0.0000	0.0000
CA-1	109.2000	104.6200	109.7587	16	44	5.1387	0.0000	8742.3511	0.0000	0.0000	0.0000
CA-2	108.3100	104.6200	108.9741	17	33	4.3541	0.0000	9713.5797	0.0000	0.0000	0.0000
CA-3	108.0200	104.6200	108.9720	17	33	4.3520	0.0000	12954.437	0.0000	0.0000	0.0000
CN-9	107.5300	103.9300	109.2709	17	21	5.3409	0.0000	28512.269	0.0000	0.0000	0.0000
7185(ml)	112.5500	112.5200	109.2481	17	15	0.0000	3.3019	12.5660	0.0000	0.0000	0.0000

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| Table E10 - CONDUIT SUMMARY STATISTICS |
| Note: The peak flow may be less than the design flow |
| and the conduit may still surcharge because of the |
| downstream boundary conditions. |
| |
| * denotes an open conduit that has been overtopped |
| this is a potential source of severe errors |
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Conduit Name	Design Flow (cfs)	Conduit Design Velocity (ft/s)	Maximum Vertical Depth (in)	Maximum Computed Flow (cfs)	Time of Occurence Hr.	Time of Occurence Min.	Maximum Computed Velocity (ft/s)	Time of Occurence Hr.	Time of Occurence Min.	Ratio of Max. to Design Flow	Maximum Water Elev at Pipe Ends Upstream (ft)	Maximum Water Elev at Pipe Ends Dwnstrm (ft)	Ratio d/D US	Ratio d/D DS
L-CA-4	17.1535	9.7069	18.0000	14.2476	15	55	7.9333	15	55	0.8306	109.1954	109.1309	4.317	5.127
L-CA-6	14.2229	8.0485	18.0000	11.1590	15	44	6.2310	15	44	0.7846	109.1350	109.1240	4.497	5.076
L-CA-8	18.0035	10.1879	18.0000	6.5371	19	33	3.6321	19	33	0.3631	109.0230	109.1068	4.022	5.018
L-CA-9	25.9415	5.2848	30.0000	28.6455	16	1	6.4098	15	43	1.1042	112.8656	112.8069	2.210	2.259
L-CA-11	19.5345	11.0543	18.0000	8.1037	15	58	4.5128	15	58	0.4148	109.0583	109.0353	4.079	5.170
L-CA-12	17.7463	10.0424	18.0000	4.5074	19	32	2.5057	19	32	0.2540	109.0415	109.0396	3.888	4.800
L-CA-13	17.4853	9.8947	18.0000	-4.2820	16	47	-2.3758	16	47	-0.2449	109.0486	109.0474	3.866	4.752
L-CA-15	13.7295	7.7693	18.0000	10.7229	15	47	5.9877	15	47	0.7810	109.0739	109.0574	4.163	4.698
L-CA-17	14.9325	8.4501	18.0000	4.9641	19	48	2.7599	19	48	0.3324	109.1085	109.1078	4.032	4.679
L-CA-18	17.6163	9.9688	18.0000	8.9987	16	0	5.0186	16	0	0.5108	109.1316	109.1238	3.741	4.636
L-CA-19	15.9017	8.9985	18.0000	3.8578	19	39	2.1446	19	39	0.2426	109.1313	109.1304	3.881	4.614
L-CA-20	14.1419	8.0027	18.0000	-5.1102	16	46	-2.8369	16	46	-0.3614	109.1370	109.1365	4.018	4.598
L-CA-21	12.0342	6.8100	18.0000	5.6607	20	6	3.1495	20	6	0.4704	109.1460	109.1430	4.164	4.582
L-CA-22	9.2225	5.2189	18.0000	-6.3909	16	36	-3.5482	16	36	-0.6930	109.1500	109.1495	4.313	4.560
L-CA-23	10.7209	6.0668	18.0000	-6.7304	16	35	3.7377	20	31	-0.6278	109.1551	109.1547	4.430	4.763
L-CA-24	9.3463	5.2889	18.0000	7.2661	20	35	4.0460	20	35	0.7774	109.1599	109.1595	4.493	4.746
L-CA-25	11.5468	6.5342	18.0000	6.2241	20	21	3.4630	20	21	0.5390	109.1707	109.1686	4.334	4.719
L-CA-26	9.8259	5.5603	18.0000	1.3196	21	7	0.7412	21	7	0.1343	109.1768	109.1767	4.205	4.484
L-CA-27	8.9698	5.0759	18.0000	5.5586	20	6	3.0921	20	6	0.6197	109.1911	109.1905	4.221	4.454
L-CA-31	7.2713	4.1147	18.0000	11.6533	16	45	6.4521	16	45	1.6026	109.5323	109.2354	4.668	4.624
L-CA-32	8.9698	5.0759	18.0000	8.4315	20	49	4.6973	20	49	0.9400	109.2758	109.2750	4.544	4.777

L-CA-33	6.4326	3.6401	18.0000	21.7223	17	10	11.9561	17	10	3.3769	111.1103	109.3013	5.974	4.888	
L-CA-34	9.0970	5.1479	18.0000	9.1840	20	57	5.1177	20	57	1.0096	109.3049	109.3043	4.617	4.856	
L-CA-35	8.9698	5.0759	18.0000	10.6853	16	46	5.9131	16	46	1.1913	109.5312	109.3109	4.721	4.807	
L-CA-36	5.8721	3.3229	18.0000	11.2097	21	4	6.2548	21	4	1.9090	109.3126	109.3122	4.715	4.815	
L-CA-37	10.2832	5.8191	18.0000	7.4429	15	51	4.1395	15	51	0.7238	109.3392	109.3145	4.753	5.043	
L-CB-1	10.2315	5.7898	18.0000	2.5913	16	15	1.4464	16	15	0.2533	109.1320	109.1310	3.561	3.807	
L-CB-2	21.8472	6.9542	24.0000	12.6877	15	46	4.0048	15	46	0.5807	109.1310	109.1309	3.106	4.005	
L-CB-3	10.3688	5.8675	18.0000	2.4626	16	15	1.3778	16	15	0.2375	109.0296	109.0291	3.360	3.613	
L-CB-4	23.0865	7.3487	24.0000	7.2298	15	53	2.2798	15	53	0.3132	109.0291	109.0905	2.960	3.995	
L-CB-5	10.5043	5.9442	18.0000	2.4634	16	15	1.3779	16	15	0.2345	109.0474	109.0470	3.372	3.631	
L-CB-6	22.2084	7.0691	24.0000	7.0190	15	52	2.2140	15	52	0.3161	109.0470	109.0368	2.954	3.878	
L-CB-7	9.5151	5.3844	18.0000	2.5136	16	15	1.4054	16	15	0.2642	109.0697	109.0693	3.386	3.600	
L-CB-8	21.2940	6.7781	24.0000	8.3630	15	49	2.6391	15	49	0.3927	109.0693	109.0543	2.950	3.797	
L-CB-9	8.9055	5.0395	18.0000	2.7251	16	15	1.5233	16	15	0.3060	109.1282	109.1279	3.425	3.579	
L-CB-10	23.2912	7.4138	24.0000	9.2061	15	52	2.9050	15	52	0.3953	109.1279	109.1238	2.684	3.742	
L-CB-11	8.8317	4.9977	18.0000	4.0134	16	15	2.2372	16	15	0.4544	109.1596	109.1564	3.446	4.538	
L-CB-15	7.9845	4.5183	18.0000	3.3549	16	15	1.8726	16	15	0.4202	109.1997	109.1993	3.473	3.646	
L-CB-14	18.3472	5.8401	24.0000	12.8943	15	57	4.0611	15	57	0.7028	109.1993	109.1940	2.985	3.597	
L-CB-18	8.0228	4.5400	18.0000	2.6856	21	7	1.5047	21	7	0.3347	109.2355	109.2354	4.777	4.824	
L-CB-17	10.1482	5.7427	18.0000	5.6847	17	15	3.1558	17	15	0.5602	110.2970	110.2621	4.125	4.475	
L-CB-16	21.7575	6.9256	24.0000	23.6301	16	15	7.4078	16	15	1.0861	110.2621	109.2570	3.606	3.843	
L-CB-19	31.3274	6.3820	30.0000	23.6259	16	15	4.7557	16	15	0.7542	109.2570	109.2555	3.275	3.302	
L-CB-20	13.0426	7.3806	18.0000	2.7411	16	0	6.3939	16	0	0.2102	122.4865	122.0054	0.324	0.250	
L-CB-29	20.0199	11.3290	18.0000	2.7406	16	0	7.9347	16	0	0.1369	122.0054	119.5342	0.250	0.249	
L-CB-26	17.2781	5.4998	24.0000	6.9508	21	6	2.1979	21	6	0.4023	109.3122	109.3122	3.871	3.906	
L-CT-39	14.9142	2.1099	36.0000	7.4327	15	51	1.0454	15	51	0.4984	109.3145	109.3132	2.521	2.538	
L-CT-38	22.4970	2.3383	42.0000	16.8663	16	10	1.7421	16	10	0.7497	109.3132	109.3122	2.318	2.332	
L-CT-37	32.1196	2.5560	48.0000	28.2384	21	2	2.2388	21	2	0.8792	109.3122	109.3109	2.166	2.178	
L-CT-36	32.1196	2.5560	48.0000	28.1338	20	58	2.2296	20	58	0.8759	109.3109	109.3064	2.178	2.189	
L-CT-35	36.5785	2.2862	48.0000	28.1452	20	58	1.7533	20	58	0.7694	109.3064	109.3043	2.189	2.196	
L-CT-34	60.9641	3.8103	48.0000	37.2065	20	57	2.3177	20	57	0.6103	109.3043	109.3013	2.196	2.223	
L-CT-33	5.7836	0.0000	48.0000	59.0219	20	56	3.6764	20	56	10.2051	109.3013	109.2750	2.223	2.216	
L-CT-32	38.9928	2.4370	48.0000	64.7170	20	50	4.0304	20	50	1.6597	109.2750	109.2555	2.216	2.221	
L-CT-31	58.7462	2.9373	48.0000	64.8128	20	50	3.2292	20	50	1.1033	109.2555	109.2354	2.221	2.234	
L-CT-30	51.1383	2.5569	48.0000	70.3392	20	45	3.5039	20	45	1.3755	109.2354	109.2187	2.234	2.237	
L-CT-27a	97.0536	3.4662	48.0000	70.2385	20	45	2.4994	20	45	0.7237	109.1940	109.1905	2.248	2.253	
L-CT-27	84.0508	3.0018	48.0000	70.4226	20	45	2.5059	20	45	0.8379	109.1905	109.1767	2.253	2.264	
L-CT-26	77.8160	2.7791	48.0000	70.4834	20	45	2.5081	20	45	0.9058	109.1767	109.1686	2.264	2.270	
L-CT-25	96.6959	3.0217	48.0000	72.2667	20	22	2.2478	20	22	0.7474	109.1686	109.1595	2.270	2.280	
L-CT-24	105.9251	3.3102	48.0000	78.5922	20	25	2.4447	20	25	0.7420	109.1595	109.1564	2.280	2.284	
L-CT-23a	99.0839	3.0964	48.0000	78.6092	20	25	2.4452	20	25	0.7934	109.1564	109.1547	2.284	2.286	
L-CT-23	100.7777	3.1493	48.0000	85.0689	20	25	2.6461	20	25	0.8441	109.1547	109.1495	2.286	2.292	
L-CT-22	104.4436	3.2639	48.0000	90.8537	20	21	2.8258	20	21	0.8699	109.1495	109.1430	2.292	2.301	
L-CT-21	91.7338	2.8667	48.0000	92.3710	20	21	2.8729	20	21	1.0069	109.1430	109.1365	2.301	2.307	
L-CT-20	95.1967	2.9749	48.0000	93.0790	20	21	2.8949	20	21	0.9778	109.1365	109.1304	2.307	2.313	
L-CT-19	105.9251	3.3102	48.0000	93.0352	20	13	2.8929	20	13	0.8783	109.1304	109.1238	2.313	2.321	
L-CT-18	100.6693	3.1459	48.0000	95.7369	20	7	2.9764	20	7	0.9510	109.1238	109.1078	2.321	2.337	
L-CT-15	60.3766	3.0188	48.0000	53.2355	19	54	2.6477	19	54	0.8817	109.0574	109.0543	2.344	2.349	
L-CT-13	81.5413	2.9122	48.0000	55.6748	19	53	1.9777	19	53	0.6828	109.0474	109.0396	2.364	2.382	
L-CT-12	84.0508	3.0018	48.0000	55.8422	19	53	1.9836	19	53	0.6644	109.0396	109.0368	2.382	2.389	
L-CT-11a	97.0536	3.4662	48.0000	58.6503	19	37	2.0824	19	37	0.6043	109.0368	109.0353	2.389	2.394	
L-CT-11	79.2439	2.8301	48.0000	61.7381	19	37	2.1920	19	37	0.7791	109.0353	109.0305	2.394	2.403	
L-CT-10	84.0508	3.0018	48.0000	65.7320	19	36	2.3338	19	36	0.7821	109.0305	109.0569	2.403	2.422	
L-CT-9	84.0508	3.0018	48.0000	65.7217	19	36	2.3333	19	36	0.7819	109.0569	109.0905	2.422	2.448	
L-CT-8	88.5974	3.1642	48.0000	68.8068	19	35	2.4427	19	35	0.7766	109.0905	109.1068	2.448	2.464	
L-CT-3	69.4027	2.4787	48.0000	87.2919	15	49	3.1036	15	49	1.2578	109.1309	109.1250	2.505	2.526	
L-CT-1	86.2343	3.0798	48.0000	87.2767	15	49	3.1028	15	49	1.0121	109.1250	109.1020	2.549	2.558	
L-CT-97	85.4877	3.0531	48.0000	101.1825	15	49	3.5972	15	49	1.1836	109.1020	109.0880	2.558	2.569	
L-CT-98	209.4013	7.4786	48.0000	105.9663	15	54	3.7656	15	54	0.5060	109.0876	109.0679	2.569	2.654	
L-CP-1	5.9661	3.3761	18.0000	-1.9573	16	30	2.8116	19	19	-0.3281	113.0318	113.0304	2.855	3.054	
L-CP-2	12.7127	4.0466	24.0000	8.5426	15	56	3.5956	15	40	0.6720	113.0304	112.9095	2.540	2.780	
L-CP-3	12.8487	4.0890	24.0000	10.8326	19	17	3.3668	19	17	0.8431	112.9095	112.8554	2.780	2.903	
L-CP-6	9.0500	5.1713	18.0000	8.7403	15	47	5.7791	15	42	0.9658	113.5959	113.1776	3.064	3.265	
L-CP-5	9.3065	5.2664	18.0000	8.8966	18	51	5.8119	15	42	0.9560	113.1776	112.8554	3.265	3.537	
L-CP-4	30.0688	9.5712	24.0000	29.2847	15	56	10.3166	15	40	0.9739	112.8554	112.6838	2.903	3.082	
L-CQ-7	22.6436	4.6129	30.0000	29.4875	16	15	5.9517	16	15	1.3022	111.7355	110.8621	2.646	2.553	
L-CQ-8	37.3586	5.2852	36.0000	31.1576	16	15	4.3754	16	15	0.8340	110.8621	110.6410	2.294	2.380	
L-CQ-9	53.9875	7.6377	36.0000	36.5691	16	15	5.1334	16	15	0.6774	110.6410	110.5529	2.380	2.478	
L-CQ-10	6.0289	3.4117	18.0000	4.5785	16	15	3.7893	15	52	0.7594	110.6671	110.6410	1.411	1.581	
L-CR-5	25.9415	5.2848	30.0000	10.6908	16	0	4.5301	15	29	0.4121	109.6753	109.6706	2.046	2.292	
L-CR-6	79.5352	16.2028	30.0000	20.5665	15	35	5.8599	15	35	0.2586	109.6706	109.6678	2.292	3.043	
L-CS-1	26.2720	5.3521	30.0000	24.6231	19	10	5.5200	15	42	0.9372	113.8914	113.4015	2.157	2.281	
L-CS-2	38.5857	7.8606	30.0000	27.0628	19	12	6.4353	15	31	0.7014	113.4015	112.6838	2.281	2.794	
L-CN-1	16.4322	3.3475	30.0000	13.3964	19	16	3.4661	15	41	0.8153	112.9235	112.8069	1.993	2.259	
L-CN-2	72.8660	4.5541	48.0000	37.6214	19	17	2.9523	15	33	0.5163	112.8069	112.7570	1.787	1.899	
L-CN-3	73.1569	4.5723	48.0000	36.6886	19	17	2.3233	15	38	0.5015	112.7570	112.6838	1.899	2.041	
L-CN-4	73.1569	4.5723	48.0000	71.2246	15	52	4.6948	15	37	0.9736	112.6838	112.0193	2.041	2.075	
L-CN-5	73.1569	4.5723	48.0000	75.5427	18	24	4.6982	18	24	1.0326	112.0193	111.1623	2.075	2.101	
L-CN-6	73.6185	4.6012	48.0000	78.3375	18	19	4.8721	18	19	1.0641	111.1623	110.5529	2.101	2.108	
L-CN-7	132.3035	5.2921	60.0000	118.2201	16	0	4.7127	16	0	0.8936	110.5529	109.6678	1.887	2.022	
L-CN-8	133.2785	5.3311	60.0000	136.5155	16	2	5.4407	16	2	1.0243	109.6678	109.2709	2.022	2.068	
L-CT2-1	6.8256	3.8625	18.0000	2.7103	16	15	2.2588	15	45	0.3971	108.9592	108.9646	2.079	2.336	
L-CT2-2	6.6770	3.7784	18.0000	4.5882	16	15	3.3716	15	38	0.6872	108.9646	108.9737	2.336	2.876	
L-CU-2	5.9912	3.3903	18.0000	10.4970	15	53	5.8975	15	53	1.7521	109.8446	109.3285	3.150	2.986	
L-CU-3	12.4047	3.9486	24.0000	14.4660	16	0	4.5812	16	0	1.1662	109.3285	108.9737	2.489	2.757	
L-CO-1	6.0318	3.4133	18.0000	2.3255	15	48	2.4508	15	46	0.3855	112.8877	112.8829	1.458	1.862	
L-CO-5	23.1868	4.7236	30.0000	9.4429	19	18	2.9849	19	18	0.4073	112.8715	112.8656	1.749	2.210	
L-CO-10	8.1366	4.6044	18.0000	10.4367	15	52	5.8610	15	52	1.2827	113.7636	112.8656	3.176	3.017	
L-CR-1	6.6435	3.7595	18.0000	3.8693	16	0	3.8515	15	46	0.5824	109.7190	109.7010	1.479	1.881	
L-CR-3	14.3077	4.5543	24.0000	8.1717	16	0	4.2849	15	39	0.5711	109.7010	109.6753	1.661	2.308	
L-CQ-1	5.7116	3.2321	18.0000	3.3693	17	39	1.9016	17	39	0.5899	112.8208	112.8170	3.067	3.291	
L-CQ-2	12.6509	4.0269	24.0000	12.5044	17	25	4.3032	15	41	0.9884	112.8170	112.3232	2.719	2.902	
L-CQ-5	22.4660	4.5767	30.0000	21.2100	15	54	4.4983	15	38	0.9441	112.3232	111.7355	2.521	2.646	
L-CR-8	7.4502	4.2159	18.0000	3.1809	16	0	3.5289	15	37	0.4270	109.6780	109.6706	2.605	3.154	
Link587	15335.31	1.7196	157.0800	1211.093	16	57	5.7107	23	32	0.0790	109.6546	109.3420	0.778	0.756	
Link588	1599.049	0.0000	168.8400	1514.802	17	25	2.5825	18	33	0.9473	109.2959	109.2481	0.771	0.767	
Link589	51128.70	5.9222	168.8400	-1668.89	17	15	-2.9631	17	15	-0.0326	109.0678	108.9737	0.732	0.748	
Link590	12018.70	2.3357	159.1200	1263.977	17	31	3.5093	16	19	0.1052	108.9737	107.0954	0.770	0.699	
Link615	41.0171	8.3559	30.0000	2.1632	16	15	4.2958	16	1	0.0527	109.2626	109.2626	0.997	1.129	
Link616	41.0171	8.3559	30.0000	1.3937	16	15	3.7945	16	0	0.0340	109.2626	109.2626	0.997	1.129	
Link617	41.0171	8.3559	30.0000	1.7042	16	15	4.0597	16	1	0.0415	109.2626	109.2626	0.997	1.129	
Link618	41.0171	8.3559	30.0000	2.2132	16	15	4.3638	16	1	0.0540	109.2626	109.2626	0.997	1.129	
Link619	41.0171	8.3559	30.0000	2.2181	16	15	3.7756	15	46	0.0541	109.2632	109.2631	1.453	1.585	
Link620	41.0171	8.3559	30.0000	1.9680	16	15	3.6492	15	45	0.0480	109.2632	109.2631	1.453	1.585	
Link621	41.0171	8.3559	30.0000	2.4280	16	15	3.9117	15	46	0.0592	109.2632	109.2631	1.453	1.585	
Link622	22.6224	7.2009	24.0000	2.1297	16	14	2.3768	15	24	0.0941	109.2367	109.2366	2.393	2.558	
Link623	22.6224	7.2009	24.0000	23.8202	19	55	7.5348	19	55	1.0529	109.2370	109.2366	2.393	2.558	
Link624	22.6224	7.2009	24.0000	20.9950	19	43	6.6381	19	43	0.9281	109.2382	109.2366	2.394	2.558	
Link625	22.6224	7.2009	24.0000	21.4803	19	46	6.7922	19	46	0.9495	109.2372	109.2366	2.394	2.558	
Link626	22.6224	7.2009	24.0000	2.7908	16	14	0.8811	16	14	0.1234	109.2420	109.2419	3.011	3.176	
Link627	22.6224	7.2009	24.0000	2.8107	16	14	0.8874	16	14	0.1242	109.2420	109.2419	3.011	3.176	
Link628	22.6224	7.2009	24.0000	4.2420	16	15	1.3392	16	15	0.1875	109.2423	109.2419	3.011	3.176	
Link629	22.6224	7.2009	24.0000	3.4813	16	15	1.0991	16	15	0.1539	109.2421	109.2419	3.011	3.176	
Link630	22.6224	7.2009	24.0000	2.7622	16	15	0.8690	16	15	0.1221	109.2496	109.2491	3.545	3.710	
Link631	22.6224	7.2009	24.0000	2.4022	16	15	0.7558	16	15	0.1062	109.2496	109.2491	3.545	3.710	
Link632	22.6224	7.2009	24.0000	2.6920	16	14	0.8470	16	14	0.1190	109.2496	109.2491	3.545	3.710	
Link633	22.6224	7.2009	24.0000	3.8120	16	14	1.1993	16	14	0.1685	109.2499	109.2491	3.545	3.710	
Link634	22.6224	7.2009	24.0000	13.5959	18	38	4.2543	18	38	0.6010	109.6384	109.6237	3.684	3.842	
Link635	22.6224	7.2009	24.0000	13.0567	18	50	4.0935	18	50	0.5772	109.6253	109.6237	3.678	3.842	
Link636	22.6224	7.2009	24.0000	11.6743	18	52	3.6565	18	52	0.5161	109.6297	109.6237	3.680	3.842	
Link637	22.6224	7.2009	24.0000	9.4807	18	22	2.9673	18	22	0.4191	109.6251	109.6237	3.678	3.842	
L-CT-14	81.4904	2.9104	48.0000	55.5238	19	53	1.9725	19	53	0.6814	109.0543	109.0474	2.349	2.364	
L-CT-7	88.1532	3.1483	48.0000	71.9272	19	35	2.5534	19	35	0.8159	109.1069	109.1240	2.464	2.486	
L-CT-5	88.1532	3.1483	48.0000	75.5503	19	35	2.6820	19	35	0.8570	109.1240	109.1309	2.486	2.505	
L-CT-17	54.8397	2.7420	48.0000	97.2811	20	2	4.8389	20	2	1.7739	109.1078	109.0574	2.337	2.344	
L-CT-29	64.2404	2.6767	48.0000	70.1723	20	45	2.9132	20	45	1.0923	109.2187	109.1940	2.237	2.248	
L-CO-3	12.9159	4.1113	24.0000	8.1839	15	48	3.7415	15	45	0.6336	112.8829	112.8715	1.646	1.936	
L-RD-1	121.3877	2.1676	48.0000	5.2183	20	2	0.4636	15	46	0.0430	109.2626	109.2631	0.956	1.242	*

L-RD-2	121.3877	2.1676	48.0000	12.7096	20	59	0.7539	15	34	0.1047	109.2631	109.2587	1.242	1.368	*
L-RD-5	121.3877	2.1676	48.0000	38.9322	19	36	0.6952	19	36	0.3207	109.2366	109.2419	1.530	1.838	*
L-RD-6	121.3877	2.1676	48.0000	-50.0842	15	48	-0.8944	15	48	-0.4126	109.2419	109.2491	1.838	2.103	*
L-RD-7	121.3877	2.1676	48.0000	-66.2601	15	48	-1.1832	15	48	-0.5459	109.2491	109.2959	2.103	2.242	*
Link649	16.8718	1.3426	48.0000	23.6139	16	0	1.8702	16	0	1.3996	109.6237	109.2959	2.172	2.249	
L-RD-3	12.9708	2.6424	30.0000	15.3748	20	0	3.1186	20	0	1.1853	109.2587	109.2393	2.188	2.205	
L-RD-4	121.3877	2.1676	48.0000	19.6093	19	58	0.7119	15	21	0.1615	109.2393	109.2366	1.378	1.530	*
Link652	7.1538	2.2771	24.0000	11.0413	15	33	3.4748	15	33	1.5434	110.5394	109.6212	4.126	4.343	
Link653	7.1538	2.2771	24.0000	6.4618	15	33	2.0295	15	33	0.9033	110.8141	110.5394	3.720	4.126	
Link655	94380.55	10.5833	157.0800	1777.739	18	12	5.4044	23	39	0.0188	109.3420	109.2959	0.756	0.829	
Link656	7.4547	0.9318	12.0000	17.9022	17	15	2.6599	17	5	2.4015	111.5800	109.2481	2.830	0.748	*
Link657	6.3466	0.9067	12.0000	10.1309	16	17	1.9787	16	17	1.5963	109.9837	109.2481	1.334	0.748	*
Link658	6.0973	0.8798	10.8000	10.1709	16	33	1.4676	16	33	1.6681	112.9319	112.8510	3.813	3.779	*
Link659	7.4547	0.9318	12.0000	11.5853	18	50	1.4482	18	50	1.5541	112.8510	111.5800	3.401	2.830	*
Link661	131.1214	5.2449	60.0000	145.8056	16	0	5.8116	16	0	1.1120	109.2709	109.0678	2.068	2.124	
Link662	21.0087	11.8885	18.0000	20.8073	16	6	11.5476	16	6	0.9904	109.7587	109.1020	4.426	5.268	
Link663	21.0087	11.8885	18.0000	5.3500	19	23	2.9705	19	23	0.2547	108.9741	109.1020	3.903	5.268	
Link664	21.0087	11.8885	18.0000	4.6828	19	26	2.6020	19	26	0.2229	108.9720	109.1020	3.901	5.268	
Link665	1599.049	0.0000	168.8400	1351.376	17	14	2.3344	17	0	0.8451	109.2481	109.0678	0.767	0.755	
FREE # 1	Undefnd	Undefnd	Undefn	1263.993	17	31									

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| Table E14 - Natural Channel Overbank Flow Information |
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Conduit Name	<---- Maximum Velocity -----> Left Velocity	Center Velocity	Right Velocity	<------ Maximum Flow -------> Left Flow	Center Flow	Right Flow	<------ Maximum Area ------> Left Area	Center Area	Right Area	<--- Max. Storage Volume ---> Left Area	Center Area	Right Area	Maximum Depth
Link587	0.3815	2.4827	0.5226	60.0515	532.0298	619.0121	157.3915	214.2906	1184.5180	5744.7908	7821.6053	43234.907	10.0491
Link588	0.0000	2.3381	0.2144	0.0000	1415.9456	98.8567	0.0000	605.6084	461.1758	0.0000	42392.589	32282.303	10.8054
Link589	0.0000	2.9191	0.1458	0.0000	1660.2557	8.6351	0.0000	568.7554	59.2218	0.0000	17802.043	1853.6438	10.3945
Link590	0.2990	3.4023	0.3090	24.1101	1216.3568	23.5103	80.6236	357.5146	76.0961	42714.404	181259.92	37256.638	9.9168
Link655	0.3662	2.1807	0.5942	132.0581	517.0872	1128.5935	360.6207	237.1177	1899.3595	11467.739	7540.3414	60399.631	10.6196
Link665	0.0000	2.1932	0.1541	0.0000	1304.1911	47.1853	0.0000	594.6615	306.1610	0.0000	149676.29	77060.715	10.6849

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| Table E14a - Natural Channel Encroachment Information |
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Conduit Name	<------- Existing Conveyance Condition -------> Left Bank	Centre Channel	Right Bank	Total	<----- Encroachment Conveyance Condition -----> Left Station	Right Station	<- % Volume --> Left Bank	Centre Channel	Right Bank	Total	<- Reduction -> Left Station	Right Station	<-- Encroachment Data --> Depth Incr.	Method
Link587	2089.6	18513.2	21539.9	42142.7	4953.1	6447.6	2089.6	18513.2	21539.9	42142.7	4953.1	6447.6	0.0000	0.0000	0.0000	None
Link588	0.0000	61826.7	4316.5	66143.3	4952.7	6466.5	0.0000	61826.7	4316.5	66143.3	4952.7	6466.5	0.0000	0.0000	0.0000	None
Link589	0.0000	56996.3	296.44	57292.7	4954.2	6466.5	0.0000	56996.3	296.44	57292.7	4954.2	6466.5	0.0000	0.0000	0.0000	None
Link590	674.59	34033.0	657.81	35365.4	4956.4	5393.4	674.59	34033.0	657.81	35365.4	4956.4	5393.4	0.0000	0.0000	0.0000	None
Link655	5348.5	20942.5	45709.1	72000.2	4547.8	6447.6	5348.5	20942.5	45709.1	72000.2	4547.8	6447.6	0.0000	0.0000	0.0000	None
Link665	0.0000	60417.0	2185.9	62602.9	4953.1	6466.5	0.0000	60417.0	2185.9	62602.9	4953.1	6466.5	0.0000	0.0000	0.0000	None

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| Table E14b - Floodplain Mapping |
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Conduit Name	Upstream WS Elev.	Downstream WS Elev.	Channel Length	Center Station	<----- Left Offsets Natural	Encroach	Bank	<----- Right Offsets Natural	Encroach	Bank	<- Channel Widths-> Total	Encroach.
Link587	109.6546	109.3420	36.5000	5000.1000	47.0354	47.0354	19.0000	1447.5000	1447.5000	22.3000	1494.5354	1494.5354
Link588	109.2959	109.2481	70.0000	4999.3000	46.6218	46.6218	56.4000	1467.2000	1467.2000	58.3000	1513.8218	1513.8218
Link589	108.9737	109.0678	31.3000	4999.3000	45.0553	45.0553	56.4000	1467.2000	1467.2000	58.3000	1512.2553	1512.2553
Link590	108.9737	107.0954	507.0000	4997.8000	41.4220	41.4220	27.3000	395.6045	395.6045	31.7000	437.0265	437.0265
Link655	109.3420	109.2959	31.8000	5000.1000	452.2634	452.2634	19.0000	1447.5000	1447.5000	22.3000	1899.7635	1899.7635
Link665	109.2481	109.0678	251.7000	4999.3000	46.1624	46.1624	56.4000	1467.2000	1467.2000	58.3000	1513.3624	1513.3624

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| Table E15 - SPREADSHEET INFO LIST |
| Conduit Flow and Junction Depth Information for use in |
| spreadsheets. The maximum values in this table are the |
| true maximum values because they sample every time step. |
| The values in the review results may only be the |
| maximum of a subset of all the time steps in the run. |
| Note: These flows are only the flows in a single barrel. |
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Conduit Name	Maximum Flow (cfs)	Total Flow (ft^3)	Maximum Velocity (ft/s)	Maximum Volume (ft^3)	##	Junction Name	Invert Elevation (ft)	Maximum Elevation (ft)
L-CA-4	14.2476	113280.9359	7.9333	87.0477	##	CT-11a	99.4800	109.0368
L-CA-6	11.1590	103838.3188	6.2310	87.0206	##	CT-14a	99.6600	109.0543
L-CA-8	6.5371	39143.6824	3.6321	86.9900	##	CT-23a	100.0200	109.1564
L-CA-9	28.6455	213021.7059	6.4098	231.3437	##	CB-9	103.9900	109.1282
L-CA-11	8.1037	59435.3471	4.5128	87.0749	##	CB-7	103.9900	109.0697
L-CA-12	4.5074	5117.4575	2.5057	86.8748	##	CB-5	103.9900	109.0474
L-CA-13	-4.2820	3302.9979	-2.3758	86.8489	##	CO-9	107.3400	112.8656
L-CA-15	10.7229	69551.9543	5.9877	86.8201	##	CT-8	99.3000	109.0905
L-CA-17	4.9641	5749.9406	2.7599	86.8094	##	CA-8	102.9900	109.0230
L-CA-18	8.9987	49793.6563	5.0186	86.7864	##	CT-7	99.2500	109.1069
L-CA-19	3.8578	14052.2971	2.1446	86.7744	##	CA-6	102.3900	109.1350
L-CA-20	-5.1102	33.5308	-2.8369	86.7657	##	CT-5	99.1800	109.1240
L-CA-21	5.6607	34965.0306	3.1495	86.7573	##	CB-3	103.9900	109.0296
L-CA-22	-6.3909	-266.1067	-3.5482	87.6980	##	CA-4	102.7200	109.1954

L-CA-23	-6.7304	-439.7727	3.7377	86.8551	##	CT-3	99.1100	109.1309
L-CA-24	7.2661	-597.1608	4.0460	87.5897	##	CB-1	103.7900	109.1320
L-CA-25	6.2241	28068.4468	3.4630	86.8313	##	CT-1	98.9300	109.1250
L-CA-26	1.3196	3477.4081	0.7412	87.1028	##	CB-2	102.9200	109.1310
L-CA-27	5.5586	2308.5673	3.0921	87.9098	##	CB-4	103.1100	109.0291
L-CA-31	11.6533	122196.4422	6.4521	88.9018	##	CT-9	99.3700	109.0569
L-CA-32	8.4315	6422.3353	4.6973	87.9099	##	CB-6	103.1400	109.0470
L-CA-33	21.7223	275960.3452	11.9561	88.9218	##	CB-8	103.1700	109.0693
L-CA-34	9.1840	6353.8688	5.1177	87.8044	##	CT-27A	100.2000	109.1940
L-CA-35	10.6853	135495.7657	5.9131	87.9655	##	CA-37	102.2100	109.3392
L-CA-36	11.2097	6461.2574	6.2548	88.9219	##	CT-39	101.7500	109.3145
L-CA-37	7.4429	70648.6565	4.1395	87.0062	##	CT-38	101.2000	109.3132
L-CB-1	2.5913	12207.3664	1.4464	71.2603	##	CT-37	100.6500	109.3122
L-CB-2	12.6877	120867.6235	4.0048	617.9069	##	CA-36	102.2400	109.3126
L-CB-3	2.4626	11750.5229	1.3778	71.1720	##	CB-26	101.5700	109.3122
L-CB-4	7.2298	50157.7804	2.2798	617.8781	##	CB-29	121.6300	122.0054
L-CB-5	2.4634	11752.1301	1.3779	71.0752	##	CB-28	122.0000	122.4865
L-CB-6	7.0190	50649.3264	2.2140	617.4377	##	CA-35	102.4500	109.5312
L-CB-7	2.5136	12183.6909	1.4054	71.6654	##	CT-36	100.6000	109.3109
L-CB-8	8.3630	66014.5785	2.6391	617.1244	##	CT-35	100.5500	109.3064
L-CB-9	2.7251	13048.4553	1.5233	59.2616	##	CB-18	102.0700	109.2355
L-CB-10	9.2061	48346.3139	2.9050	639.2861	##	CA-34	102.3800	109.3049
L-CB-11	4.0134	18755.4638	2.2372	419.2109	##	CT-34	100.5200	109.3043
L-CB-15	3.3549	15682.7329	1.8726	83.1580	##	CA-33	102.1500	111.1103
L-CB-14	12.8943	62843.0202	4.0611	597.1905	##	CT-33	100.4100	109.3013
L-CB-18	2.6856	0.1486	1.5047	22.2304	##	CA-32	102.4600	109.2758
L-CB-17	5.6847	25330.1208	3.1558	108.3742	##	CT-32	100.4100	109.2750
L-CB-16	23.6301	159909.2454	7.4078	511.7539	##	CT-31	100.3700	109.2555
L-CB-19	23.6259	159895.4921	4.7557	61.7514	##	CA-31	102.5300	109.5323
L-CB-28	2.7411	11322.8290	6.3939	10.0535	##	CT-30	100.3000	109.2354
L-CB-29	2.7406	11325.3729	7.9347	3.5566	##	CT-29	100.2700	109.2187
L-CB-26	6.9508	11319.4600	2.1979	39.5209	##	CA-27	102.8600	109.1911
L-CT-39	7.4327	70657.2005	1.0454	741.0158	##	CT-27	100.1800	109.1905
L-CT-38	16.8663	122863.2954	1.7421	1008.6030	##	CA-26	102.8700	109.1768
L-CT-37	28.2384	141563.8808	2.2388	1317.3567	##	CT-26	100.1200	109.1767
L-CT-36	28.1338	277057.9695	2.2296	1317.3621	##	CA-25	102.6700	109.1707
L-CT-35	28.1452	277024.2115	1.7533	1211.9727	##	CT-25	100.0900	109.1686
L-CT-34	37.2065	283308.3951	2.3177	1593.6848	##	CA-24	102.4200	109.1599
L-CT-33	59.0219	568626.7071	3.6764	1874.4889	##	CT-24	100.0400	109.1595
L-CT-32	64.7170	574929.9679	4.0304	1422.0214	##	CT-23	100.0100	109.1547
L-CT-31	64.8128	734679.8804	3.2292	2455.0529	##	CA-23	102.5100	109.1551
L-CT-30	70.3392	907578.9930	3.5039	1393.1899	##	CA-22	102.6800	109.1500
L-CT-27a	70.2385	1023817.405	2.4994	847.9853	##	CT-22	99.9800	109.1495
L-CT-27	70.4226	1025853.807	2.5059	3383.1921	##	CA-21	102.9000	109.1460
L-CT-26	70.4834	1028950.029	2.5081	1978.5598	##	CT-21	99.9400	109.1430
L-CT-25	72.2667	1056603.480	2.2478	3387.1024	##	CT-20	99.9100	109.1365
L-CT-24	78.5922	1055686.196	2.4447	1130.7052	##	CA-20	103.1100	109.1370
L-CT-23a	78.6092	1074387.274	2.4452	646.3007	##	CA-19	103.3100	109.1313
L-CT-23	85.0689	1073803.236	2.6461	1874.3959	##	CT-19	99.8800	109.1304
L-CT-22	90.8537	1073141.033	2.8258	2325.1119	##	CT-18	99.8400	109.1238
L-CT-21	92.3710	1107674.255	2.8729	2262.1210	##	CA-18	103.5200	109.1316
L-CT-20	93.0790	1107273.117	2.8949	2099.4582	##	CA-17	103.0600	109.1085
L-CT-19	93.0352	1120877.645	2.8929	2262.2366	##	CT-17	99.7600	109.1078
L-CT-18	95.7369	1218210.341	2.9764	4993.1562	##	CA-15	102.8300	109.0739
L-CT-15	53.2355	1388923.759	2.6477	1316.2726	##	CT-15	99.6800	109.0574
L-CT-13	55.6748	1454545.489	1.9777	9424.4316	##	CA-13	103.2500	109.0486
L-CT-12	55.8422	1457834.568	1.9836	3346.6158	##	CT-13	99.5900	109.0474
L-CT-11a	58.6503	1507949.026	2.0824	1675.0127	##	CA-12	103.2100	109.0415
L-CT-11	61.7381	1566517.834	2.1920	5013.2057	##	CT-12	99.5100	109.0396
L-CT-10	65.7320	1634060.536	2.3338	5564.7351	##	CT-11	99.4600	109.0353
L-CT-9	65.7217	1631826.046	2.3333	7770.9478	##	CA-11	102.9400	109.0583
L-CT-8	68.8068	1679722.496	2.4427	5007.3192	##	CT-10	99.4200	109.0305
L-CT-3	87.2919	2047552.801	3.1036	14615.4461	##	CT-98	98.8700	109.1020
L-CT-1	87.2767	2043049.902	3.1028	6335.2226	##	CT-99	98.8100	109.0876

L-CT-97	101.1825	2259674.127	3.5972	6444.6976	##	CB-10	103.7600	109.1279
L-CT-98	105.9663	2331429.546	3.7656	6200.3005	##	CB-11	103.9900	109.1596
L-CP-1	-1.9573	2184.0346	2.8116	170.2745	##	CB-15	103.9900	109.1997
L-CP-2	8.5426	74847.7166	3.5956	606.2196	##	CB-14	103.2300	109.1993
L-CP-3	10.8326	74751.1120	3.3668	304.4596	##	CB-16	103.0500	110.2621
L-CP-6	8.7403	89185.6111	5.7791	173.8849	##	CB-17	104.1100	110.2970
L-CP-5	8.8966	89018.9299	5.8119	170.2275	##	X-43	102.2700	109.6314
L-CP-4	29.2847	262323.4315	10.3166	98.3158	##	X-42	102.2700	109.6253
L-CQ-7	29.4875	230830.5672	5.9517	1072.0550	##	X-41	102.2700	109.6297
L-CQ-8	31.1576	238977.2254	4.3754	1132.8644	##	X-40	102.2700	109.6251
L-CQ-9	36.5691	264675.9805	5.1334	429.7888	##	CB-19	101.0700	109.2570
L-CQ-10	4.5785	21746.5302	3.7893	157.1857	##	CP-4	107.0500	112.8554
L-CR-5	10.6908	57032.4391	4.5301	788.2206	##	CP-6	109.0000	113.5959
L-CR-6	20.5665	79285.0480	5.8599	248.6293	##	CQ-10	108.5500	110.6671
L-CS-1	24.6231	230434.0200	5.5200	997.7539	##	CS-2	107.7000	113.4015
L-CS-2	27.0628	283491.8344	6.4353	1122.0415	##	X-39	102.1600	109.2499
L-CN-1	13.3964	92531.9242	3.4661	2468.4971	##	X-38	102.1600	109.2496
L-CN-2	37.6214	357720.6498	2.9523	5062.6609	##	X-37	102.1600	109.2496
L-CN-3	36.6886	390057.1403	2.3233	6433.3102	##	X-36	102.1600	109.2496
L-CN-4	71.2246	970074.6445	4.6948	8042.9929	##	X-35	103.2200	109.2421
L-CN-5	75.5427	1022902.628	4.6982	9652.8276	##	X-34	103.2200	109.2423
L-CN-6	78.3375	1071526.182	4.8721	6355.0202	##	X-33	103.2200	109.2420
L-CN-7	118.2201	1391642.475	4.7127	24625.1400	##	X-32	103.2200	109.2420
L-CN-8	136.5155	1539860.077	5.4407	9802.0720	##	X-31	104.4500	109.2372
L-CT2-1	2.7103	13486.8409	2.2588	164.8215	##	X-30	104.4500	109.2382
L-CT2-2	4.5882	24281.0664	3.3716	354.0710	##	X-29	104.4500	109.2370
L-CU-2	10.4970	92850.8473	5.8975	153.4751	##	X-28	104.4500	109.2367
L-CU-3	14.4660	115304.2744	4.5812	954.2569	##	X-27	105.6300	109.2632
L-CO-1	2.3255	7822.9730	2.4508	328.7159	##	X-26	105.6300	109.2632
L-CO-5	9.4429	31433.0641	2.9849	1796.0301	##	X-25	105.6300	109.2632
L-CO-10	10.4367	104604.7607	5.8610	200.7596	##	X-24	106.7700	109.2626
L-CR-1	3.8693	20368.0312	3.8515	277.4070	##	X-23	106.7700	109.2626
L-CR-3	8.1717	42861.6237	4.2849	1045.3558	##	X-22	106.7700	109.2626
L-CQ-1	3.3693	2650.0095	1.9016	210.8596	##	X-21	106.7700	109.2626
L-CQ-2	12.5044	96910.5792	4.3032	888.0028	##	CO-1	110.7000	112.8877
L-CQ-5	21.2100	171093.7598	4.4983	1535.3551	##	CO-5	108.5000	112.8715
L-CR-8	3.1809	17418.1104	3.5289	295.5769	##	CN-1	107.9400	112.9235
Link587	1211.0934	31437630.68	5.7107	56801.3028	##	CN-2	105.6600	112.8069
Link588	1514.8023	32245952.20	2.5825	74674.8921	##	CN-3	105.1600	112.7570
Link589	-1668.8908	-36593706.1	-2.9631	19655.6872	##	CN-4	104.5200	112.6838
Link590	1263.9772	36710377.39	3.5093	261230.9636	##	CN-5	103.7200	112.0193
Link615	2.1632	10862.3160	4.2958	169.5867	##	CN-6	102.7600	111.1623
Link616	1.3937	6959.4275	3.7945	169.5867	##	CN-7	101.1200	110.5529
Link617	1.7042	8281.5270	4.0597	169.5867	##	CN-8	99.5600	109.6678
Link618	2.2132	10853.9327	4.3638	169.5867	##	6863.3	98.4500	109.0678
Link619	2.2181	10852.3522	3.7756	169.8161	##	CR-8	105.7700	109.6780
Link620	1.9680	9575.8113	3.6492	169.8161	##	CR-6	103.9400	109.6706
Link621	2.4280	11742.6140	3.9117	169.8161	##	CR-5	104.5600	109.6753
Link622	2.1297	10010.4729	2.3768	108.5362	##	CR-3	106.3800	109.7010
Link623	23.8202	15904.4136	7.5348	108.5362	##	CR-1	107.5000	109.7190
Link624	20.9950	29226.0591	6.6381	108.5362	##	CQ-9	103.5000	110.6410
Link625	21.4803	17267.9142	6.7922	108.5362	##	CQ-8	103.9800	110.8621
Link626	2.7908	13064.7659	0.8811	108.5374	##	CQ-7	105.1200	111.7355
Link627	2.8107	13055.6869	0.8874	108.5374	##	CQ-5	106.0200	112.3232
Link628	4.2420	20012.1667	1.3392	108.5374	##	CQ-3	107.3800	112.8170
Link629	3.4813	16520.4389	1.0991	108.5374	##	CP-1	108.7500	113.0318
Link630	2.7622	13050.5167	0.8690	108.5375	##	CO-10	109.0000	113.7636
Link631	2.4022	11322.5644	0.7558	108.5375	##	CQ-1	108.2200	112.8208
Link632	2.6920	12600.4980	0.8470	108.5375	##	CS-1	108.5000	113.8914
Link633	3.8120	17829.0762	1.1993	108.5375	##	CT2-1	105.8400	108.9591
Link634	13.5959	14372.1514	4.2543	108.5373	##	CT2-2	105.4600	108.9646
Link635	13.0567	12178.9252	4.0935	108.5373	##	6832	98.7700	108.9737
Link636	11.6743	16624.4271	3.6565	108.5373	##	CP-5	108.2800	113.1776
Link637	9.4807	21680.4336	2.9673	108.5373	##	CP-3	107.3500	112.9095

L-CT-14	55.5238	1453701.183	1.9725	8264.8597	##	CP-2	107.9500	113.0304
L-CT-7	71.9272	1716648.370	2.5534	7063.2115	##	CU-3	104.3500	109.3285
L-CT-5	75.5503	1817768.342	2.6820	7062.4401	##	CU-2	105.1200	109.8446
L-CT-17	97.2811	1223029.833	4.8389	3221.5098	##	7253.3	99.4700	109.6546
L-CT-29	70.1723	907295.3273	2.9132	3931.3730	##	7185	98.4500	109.2959
L-CO-3	8.1839	31312.6919	3.7415	585.4710	##	6325	97.2000	107.0954
L-RD-1	5.2183	38599.1108	0.4636	63652.2681	##	CO-3	109.5900	112.8829
L-RD-2	12.7096	123122.6928	0.7539	28448.0000	##	RD-1	105.4400	109.2626
L-RD-5	38.9322	291917.3208	0.6952	68600.0000	##	RD-2	104.2960	109.2631
L-RD-6	-50.0842	422911.3341	-0.8944	59024.0000	##	RD-5	103.1150	109.2366
L-RD-7	-66.2601	537636.6588	-1.1832	28560.0000	##	RD-6	101.8900	109.2419
Link649	23.6139	288916.8962	1.8702	8378.1877	##	RD-7	100.8360	109.2491
L-RD-3	15.3748	146587.4265	3.1186	308.7555	##	RD-8	100.9360	109.6212
L-RD-4	19.6093	161009.1565	0.7119	34328.0000	##	RD-3	103.7880	109.2587
Link652	11.0413	143274.2781	3.4748	4337.8149	##	RD-4	103.7280	109.2393
Link653	6.4618	84092.8592	2.0295	3482.8633	##	RD-9	102.2880	110.5394
Link655	1777.7389	31434035.83	5.4044	79407.7106	##	RD-10	103.3750	110.8141
Link656	17.9022	300733.2966	2.6599	1664.5659	##	7216.8	99.4400	109.3420
Link657	10.1309	50509.2979	1.9787	713.3179	##	CS-3	109.5000	112.9319
Link658	10.1709	149056.2580	1.4676	346.5000	##	CS-4	109.4500	112.8510
Link659	11.5853	227798.9092	1.4482	5600.0000	##	CS-5	108.7500	111.5800
Link661	145.8056	1608351.508	5.8116	7718.1170	##	CS-6	108.6500	109.9837
Link662	20.8073	142015.6046	11.5476	87.1175	##	CA-1	103.1200	109.7587
Link663	5.3500	6630.7990	2.9705	87.1175	##	CA-2	103.1200	108.9741
Link664	4.6828	6586.5314	2.6020	87.1175	##	CA-3	13.1200	108.9720
Link665	1351.3764	32619023.21	2.3344	226737.0070	##	CN-9	98.9300	109.2709
FREE # 1	1263.9929	36710544.13	0.0000	0.0000	##	7185(ml)	98.4500	109.2481

Table E15a - SPREADSHEET REACH LIST

Peak flow and Total Flow listed by Reach or those conduits or diversions having the same upstream and downstream nodes.

Upstream Node	Downstream Node	Maximum Flow (cfs)	Total Flow (ft^3)
CA-4	CT-3	14.2476	113280.936
CA-6	CT-5	11.1590	103838.319
CA-8	CT-7	6.5371	39143.6824
CO-9	CN-2	28.6455	213021.706
CA-11	CT-11	8.1037	59435.3471
CA-12	CT-12	4.5074	5117.4575
CA-13	CT-13	-4.2820	3302.9979
CA-15	CT-15	10.7229	69551.9543
CA-17	CT-17	4.9641	5749.9406
CA-18	CT-18	8.9987	49793.6563
CA-19	CT-19	3.8578	14052.2971
CA-20	CT-20	-5.1102	33.5308
CA-21	CT-21	5.6607	34965.0306
CA-22	CT-22	-6.3909	-266.1067
CA-23	CT-23	-6.7304	-439.7727
CA-24	CT-24	7.2661	-597.1608
CA-25	CT-25	6.2241	28068.4468
CA-26	CT-26	1.3196	3477.4081
CA-27	CT-27	5.5586	2308.5673
CA-31	CT-30	11.6533	122196.442
CA-32	CT-32	8.4315	6422.3353
CA-33	CT-33	21.7223	275960.345
CA-34	CT-34	9.1840	6353.8688
CA-35	CT-36	10.6853	135495.766
CA-36	CT-37	11.2097	6461.2574
CA-37	CT-39	7.4429	70648.6565
CB-1	CB-2	2.5913	12207.3664
CB-2	CT-3	12.6877	120867.623
CB-3	CB-4	2.4626	11750.5229
CB-4	CT-8	7.2298	50157.7804
CB-5	CB-6	2.4634	11752.1301

CB-6	CT-11a	7.0190	50649.3264
CB-7	CB-8	2.5136	12183.6909
CB-8	CT-14a	8.3630	66014.5785
CB-9	CB-10	2.7251	13048.4553
CB-10	CT-18	9.2061	48346.3139
CB-11	CT-23a	4.0134	18755.4638
CB-15	CB-14	3.3549	15682.7329
CB-14	CT-27A	12.8943	62843.0202
CB-18	CT-30	2.6856	0.1486
CB-17	CB-16	5.6847	25330.1208
CB-16	CB-19	23.6301	159909.245
CB-19	CT-31	23.6259	159895.492
CB-28	CB-29	2.7411	11322.8290
CB-29	CB-26	2.7406	11325.3729
CB-26	CT-37	6.9508	11319.4600
CT-39	CT-38	7.4327	70657.2005
CT-38	CT-37	16.8663	122863.295
CT-37	CT-36	28.2384	141563.881
CT-36	CT-35	28.1338	277057.969
CT-35	CT-34	28.1452	277024.211
CT-34	CT-33	37.2065	283308.395
CT-33	CT-32	59.0219	568626.707
CT-32	CT-31	64.7170	574929.968
CT-31	CT-30	64.8128	734679.880
CT-30	CT-29	70.3392	907578.993
CT-27A	CT-27	70.2385	1023817.40
CT-27	CT-26	70.4226	1025853.81
CT-26	CT-25	70.4834	1028950.03
CT-25	CT-24	72.2667	1056603.48
CT-24	CT-23a	78.5922	1055686.20
CT-23a	CT-23	78.6092	1074387.27
CT-23	CT-22	85.0689	1073803.24
CT-22	CT-21	90.8537	1073141.03
CT-21	CT-20	92.3710	1107674.25
CT-20	CT-19	93.0790	1107273.12
CT-19	CT-18	93.0352	1120877.65
CT-18	CT-17	95.7369	1218210.34
CT-15	CT-14a	106.4710	1388923.76
CT-13	CT-12	111.3495	1454545.49
CT-12	CT-11a	111.6845	1457834.57
CT-11a	CT-11	117.3006	1507949.03
CT-11	CT-10	123.4762	1566517.83
CT-10	CT-9	131.4639	1634060.54
CT-9	CT-8	131.4435	1631826.05
CT-8	CT-7	137.6137	1679722.50
CT-3	CT-1	174.5837	2047552.80
CT-1	CT-98	174.5534	2043049.90
CT-98	CT-99	202.3650	2259674.13
CT-99	6863.3	211.9326	2331429.55
CP-1	CP-2	-1.9573	2184.0346
CP-2	CP-3	8.5426	74847.7166
CP-3	CP-4	10.8326	74751.1120
CP-6	CP-5	8.7403	89185.6111
CP-5	CP-4	8.8966	89018.9299
CP-4	CN-4	29.2847	262323.432
CQ-7	CQ-8	29.4875	230830.567
CQ-8	CQ-9	31.1576	238977.225
CQ-9	CN-7	36.5691	264675.981
CQ-10	CQ-9	4.5785	21746.5302
CR-5	CR-6	10.6908	57032.4391
CR-6	CN-8	20.5665	79285.0480
CS-1	CS-2	24.6231	230434.020
CS-2	CN-4	27.0628	283491.834
CN-1	CN-2	13.3964	92531.9242

CN-2	CN-3	37.6214	357720.650
CN-3	CN-4	36.6886	390057.140
CN-4	CN-5	71.2246	970074.645
CN-5	CN-6	75.5427	1022902.63
CN-6	CN-7	78.3375	1071526.18
CN-7	CN-8	118.2201	1391642.48
CN-8	CN-9	136.5155	1539860.08
CT2-1	CT2-2	2.7103	13486.8409
CT2-2	6832	4.5882	24281.0664
CU-2	CU-3	10.4970	92850.8473
CU-3	6832	14.4660	115304.274
CO-1	CO-3	2.3255	7822.9730
CO-5	CO-9	9.4429	31433.0641
CO-10	CO-9	10.4367	104604.761
CR-1	CR-3	3.8693	20368.0312
CR-3	CR-5	8.1717	42861.6237
CQ-1	CQ-3	3.3693	2650.0095
CQ-3	CQ-5	12.5044	96910.5792
CQ-5	CQ-7	21.2100	171093.760
CR-8	CR-6	3.1809	17418.1104
7253.3	7216.8	1211.0934	31437630.7
7185	7185(ml)	1514.8023	32245952.2
6832	6863.3	1668.8908	36593706.1
6832	6325	1263.9772	36710377.4
X-21	RD-1	2.1632	10862.3160
X-22	RD-1	1.3937	6959.4275
X-23	RD-1	1.7042	8281.5270
X-24	RD-1	2.2132	10853.9327
X-25	RD-2	2.2181	10852.3522
X-26	RD-2	1.9680	9575.8113
X-27	RD-2	2.4280	11742.6140
X-28	RD-5	2.1297	10010.4729
X-29	RD-5	23.8202	15904.4136
X-30	RD-5	20.9950	29226.0591
X-31	RD-5	21.4803	17267.9142
X-32	RD-6	2.7908	13064.7659
X-33	RD-6	2.8107	13055.6869
X-34	RD-6	4.2420	20012.1667
X-35	RD-6	3.4813	16520.4389
X-36	RD-7	2.7622	13050.5167
X-37	RD-7	2.4022	11322.5644
X-38	RD-7	2.6920	12600.4980
X-39	RD-7	3.8120	17829.0762
X-43	RD-8	13.5959	14372.1514
X-42	RD-8	13.0567	12178.9252
X-41	RD-8	11.6743	16624.4271
X-40	RD-8	9.4807	21680.4336
CT-14a	CT-13	111.0475	1453701.18
CT-7	CT-5	143.8545	1716648.37
CT-5	CT-3	151.1006	1817768.34
CT-17	CT-15	97.2811	1223029.83
CT-29	CT-27A	70.1723	907295.327
CO-3	CO-5	8.1839	31312.6919
RD-1	RD-2	5.2183	38599.1108
RD-2	RD-3	12.7096	123122.693
RD-5	RD-6	38.9322	291917.321
RD-6	RD-7	-50.0842	422911.334
RD-7	7185	-66.2601	537636.659
RD-8	7185	23.6139	288916.896
RD-3	RD-4	15.3748	146587.426
RD-4	RD-5	19.6093	161009.157
RD-9	RD-8	11.0413	143274.278
RD-10	RD-9	6.4618	84092.8592
7216.8	7185	1777.7389	31434035.8

CS-5	7185(ml)	17.9022	300733.297
CS-6	7185(ml)	10.1309	50509.2979
CS-3	CS-4	10.1709	149056.258
CS-4	CS-5	11.5853	227798.909
CN-9	6863.3	145.8056	1608351.51
CA-1	CT-98	20.8073	142015.605
CA-2	CT-98	5.3500	6630.7990
CA-3	CT-98	4.6828	6586.5314
7185(ml)	6863.3	1351.3764	32619023.2

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##########################################################
# Table E16. New Conduit Information Section             #
#            Conduit Invert (IE) Elevation and Conduit   #
#            Maximum Water Surface (WS) Elevations       #
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Conduit Name	Upstream Node	Downstream Node	IE Up	IE Dn	WS Up	WS Dn	Conduit Type
L-CA-4	CA-4	CT-3	102.7200	101.4400	109.1954	109.1309	Circular
L-CA-6	CA-6	CT-5	102.3900	101.5100	109.1350	109.1240	Circular
L-CA-8	CA-8	CT-7	102.9900	101.5800	109.0230	109.1068	Circular
L-CA-9	CO-9	CN-2	107.3400	107.1600	112.8656	112.8069	Circular
L-CA-11	CA-11	CT-11	102.9400	101.2800	109.0583	109.0353	Circular
L-CA-12	CA-12	CT-12	103.2100	101.8400	109.0415	109.0396	Circular
L-CA-13	CA-13	CT-13	103.2500	101.9200	109.0486	109.0474	Circular
L-CA-15	CA-15	CT-15	102.8300	102.0100	109.0739	109.0574	Circular
L-CA-17	CA-17	CT-17	103.0600	102.0900	109.1085	109.1078	Circular
L-CA-18	CA-18	CT-18	103.5200	102.1700	109.1316	109.1238	Circular
L-CA-19	CA-19	CT-19	103.3100	102.2100	109.1313	109.1304	Circular
L-CA-20	CA-20	CT-20	103.1100	102.2400	109.1370	109.1365	Circular
L-CA-21	CA-21	CT-21	102.9000	102.2700	109.1460	109.1430	Circular
L-CA-22	CA-22	CT-22	102.6800	102.3100	109.1500	109.1495	Circular
L-CA-23	CA-23	CT-23	102.5100	102.0100	109.1551	109.1547	Circular
L-CA-24	CA-24	CT-24	102.4200	102.0400	109.1599	109.1595	Circular
L-CA-25	CA-25	CT-25	102.6700	102.0900	109.1707	109.1686	Circular
L-CA-26	CA-26	CT-26	102.8700	102.4500	109.1768	109.1767	Circular
L-CA-27	CA-27	CT-27	102.8600	102.5100	109.1911	109.1905	Circular
L-CA-31	CA-31	CT-30	102.5300	102.3000	109.5323	109.2354	Circular
L-CA-32	CA-32	CT-32	102.4600	102.1100	109.2758	109.2750	Circular
L-CA-33	CA-33	CT-33	102.1500	101.9700	111.1103	109.3013	Circular
L-CA-34	CA-34	CT-34	102.3800	102.0200	109.3049	109.3043	Circular
L-CA-35	CA-35	CT-36	102.4500	102.1000	109.5312	109.3109	Circular
L-CA-36	CA-36	CT-37	102.2400	102.0900	109.3126	109.3122	Circular
L-CA-37	CA-37	CT-39	102.2100	101.7500	109.3392	109.3145	Circular
L-CB-1	CB-1	CB-2	103.7900	103.4200	109.1320	109.1310	Circular
L-CB-2	CB-2	CT-3	102.9200	101.1200	109.1310	109.1309	Circular
L-CB-3	CB-3	CB-4	103.9900	103.6100	109.0296	109.0291	Circular
L-CB-4	CB-4	CT-8	103.1100	101.1000	109.0291	109.0905	Circular
L-CB-5	CB-5	CB-6	103.9900	103.6000	109.0474	109.0470	Circular
L-CB-6	CB-6	CT-11a	103.1400	101.2800	109.0470	109.0368	Circular
L-CB-7	CB-7	CB-8	103.9900	103.6700	109.0697	109.0693	Circular
L-CB-8	CB-8	CT-14a	103.1700	101.4600	109.0693	109.0543	Circular
L-CB-9	CB-9	CB-10	103.9900	103.7600	109.1282	109.1279	Circular
L-CB-10	CB-10	CT-18	103.7600	101.6400	109.1279	109.1238	Circular
L-CB-11	CB-11	CT-23a	103.9900	102.3500	109.1596	109.1564	Circular
L-CB-15	CB-15	CB-14	103.9900	103.7300	109.1997	109.1993	Circular
L-CB-14	CB-14	CT-27A	103.2300	102.0000	109.1993	109.1940	Circular
L-CB-18	CB-18	CT-30	102.0700	102.0000	109.2355	109.2354	Circular
L-CB-17	CB-17	CB-16	104.1100	103.5500	110.2970	110.2621	Circular
L-CB-16	CB-16	CB-19	103.0500	101.5700	110.2621	109.2570	Circular
L-CB-19	CB-19	CT-31	101.0700	101.0000	109.2570	109.2555	Circular
L-CB-28	CB-28	CB-29	122.0000	121.6300	122.4865	122.0054	Circular
L-CB-29	CB-29	CB-26	121.6300	119.1600	122.0054	119.5342	Circular
L-CB-26	CB-26	CT-37	101.5700	101.5000	109.3122	109.3122	Circular
L-CT-39	CT-39	CT-38	101.7500	101.7000	109.3145	109.3132	Circular
L-CT-38	CT-38	CT-37	101.2000	101.1500	109.3132	109.3122	Circular
L-CT-37	CT-37	CT-36	100.6500	100.6000	109.3122	109.3109	Circular
L-CT-36	CT-36	CT-35	100.6000	100.5500	109.3109	109.3064	Circular
L-CT-35	CT-35	CT-34	100.5500	100.5200	109.3064	109.3043	Rectangle

L-CT-34	CT-34	CT-33	100.5200	100.4100	109.3043	109.3013	Rectangle
L-CT-33	CT-33	CT-32	100.4100	100.4100	109.3013	109.2750	Rectangle
L-CT-32	CT-32	CT-31	100.4100	100.3700	109.2750	109.2555	Rectangle
L-CT-31	CT-31	CT-30	100.3700	100.3000	109.2555	109.2354	Rectangle
L-CT-30	CT-30	CT-29	100.3000	100.2700	109.2354	109.2187	Rectangle
L-CT-27a	CT-27A	CT-27	100.2000	100.1800	109.1940	109.1905	Rectangle
L-CT-27	CT-27	CT-26	100.1800	100.1200	109.1905	109.1767	Rectangle
L-CT-26	CT-26	CT-25	100.1200	100.0900	109.1767	109.1686	Rectangle
L-CT-25	CT-25	CT-24	100.0900	100.0400	109.1686	109.1595	Rectangle
L-CT-24	CT-24	CT-23a	100.0400	100.0200	109.1595	109.1564	Rectangle
L-CT-23a	CT-23a	CT-23	100.0200	100.0100	109.1564	109.1547	Rectangle
L-CT-23	CT-23	CT-22	100.0100	99.9800	109.1547	109.1495	Rectangle
L-CT-22	CT-22	CT-21	99.9800	99.9400	109.1495	109.1430	Rectangle
L-CT-21	CT-21	CT-20	99.9400	99.9100	109.1430	109.1365	Rectangle
L-CT-20	CT-20	CT-19	99.9100	99.8800	109.1365	109.1304	Rectangle
L-CT-19	CT-19	CT-18	99.8800	99.8400	109.1304	109.1238	Rectangle
L-CT-18	CT-18	CT-17	99.8400	99.7600	109.1238	109.1078	Rectangle
L-CT-15	CT-15	CT-14a	99.6800	99.6600	109.0574	109.0543	Rectangle
L-CT-13	CT-13	CT-12	99.5900	99.5100	109.0474	109.0396	Rectangle
L-CT-12	CT-12	CT-11a	99.5100	99.4800	109.0396	109.0368	Rectangle
L-CT-11a	CT-11a	CT-11	99.4800	99.4600	109.0368	109.0353	Rectangle
L-CT-11	CT-11	CT-10	99.4600	99.4200	109.0353	109.0305	Rectangle
L-CT-10	CT-10	CT-9	99.4200	99.3700	109.0305	109.0569	Rectangle
L-CT-9	CT-9	CT-8	99.3700	99.3000	109.0569	109.0905	Rectangle
L-CT-8	CT-8	CT-7	99.3000	99.2500	109.0905	109.1068	Rectangle
L-CT-3	CT-3	CT-1	99.1100	99.0200	109.1309	109.1250	Rectangle
L-CT-1	CT-1	CT-98	98.9300	98.8700	109.1250	109.1020	Rectangle
L-CT-97	CT-98	CT-99	98.8700	98.8100	109.1020	109.0880	Rectangle
L-CT-98	CT-99	6863.3	98.8100	98.4500	109.0876	109.0679	Rectangle
L-CP-1	CP-1	CP-2	108.7500	108.4500	113.0318	113.0304	Circular
L-CP-2	CP-2	CP-3	107.9500	107.3500	113.0304	112.9095	Circular
L-CP-3	CP-3	CP-4	107.3500	107.0500	112.9095	112.8554	Circular
L-CP-6	CP-6	CP-5	109.0000	108.2800	113.5959	113.1776	Circular
L-CP-5	CP-5	CP-4	108.2800	107.5500	113.1776	112.8554	Circular
L-CP-4	CP-4	CN-4	107.0500	106.5200	112.8554	112.6838	Circular
L-CQ-7	CQ-7	CQ-8	105.1200	104.4800	111.7355	110.8621	Circular
L-CQ-8	CQ-8	CQ-9	103.9800	103.5000	110.8621	110.6410	Circular
L-CQ-9	CQ-9	CN-7	103.5000	103.1200	110.6410	110.5529	Circular
L-CQ-10	CQ-10	CQ-9	108.5500	108.2700	110.6671	110.6410	Circular
L-CR-5	CR-5	CR-6	104.5600	103.9400	109.6753	109.6706	Circular
L-CR-6	CR-6	CN-8	103.9400	102.0600	109.6706	109.6678	Circular
L-CS-1	CS-1	CS-2	108.5000	107.7000	113.8914	113.4015	Circular
L-CS-2	CS-2	CN-4	107.7000	105.7000	113.4015	112.6838	Circular
L-CN-1	CN-1	CN-2	107.9400	107.1600	112.9235	112.8069	Circular
L-CN-2	CN-2	CN-3	105.6600	105.1600	112.8069	112.7570	Rectangle
L-CN-3	CN-3	CN-4	105.1600	104.5200	112.7570	112.6838	Rectangle
L-CN-4	CN-4	CN-5	104.5200	103.7200	112.6838	112.0193	Rectangle
L-CN-5	CN-5	CN-6	103.7200	102.7600	112.0193	111.1623	Rectangle
L-CN-6	CN-6	CN-7	102.7600	102.1200	111.1623	110.5529	Rectangle
L-CN-7	CN-7	CN-8	101.1200	99.5600	110.5529	109.6678	Rectangle
L-CN-8	CN-8	CN-9	99.5600	98.9300	109.6678	109.2709	Rectangle
L-CT2-1	CT2-1	CT2-2	105.8400	105.4600	108.9591	108.9646	Circular
L-CT2-2	CT2-2	6832	105.4600	104.6600	108.9646	108.9737	Circular
L-CU-2	CU-2	CU-3	105.1200	104.8500	109.8446	109.3285	Circular
L-CU-3	CU-3	6832	104.3500	103.4600	109.3285	108.9737	Circular
L-CO-1	CO-1	CO-3	110.7000	110.0900	112.8877	112.8829	Circular
L-CO-5	CO-5	CO-9	108.5000	107.3400	112.8715	112.8656	Circular
L-CO-10	CO-10	CO-9	109.0000	108.3400	113.7636	112.8656	Circular
L-CR-1	CR-1	CR-3	107.5000	106.8800	109.7190	109.7010	Circular
L-CR-3	CR-3	CR-5	106.3800	105.0600	109.7010	109.6753	Circular
L-CQ-1	CQ-1	CQ-3	108.2200	107.8800	112.8208	112.8170	Circular
L-CQ-2	CQ-3	CQ-5	107.3800	106.5200	112.8170	112.3232	Circular
L-CQ-5	CQ-5	CQ-7	106.0200	105.1200	112.3232	111.7355	Circular
L-CR-8	CR-8	CR-6	105.7700	104.9400	109.6780	109.6706	Circular

Link587	7253.3	7216.8	99.4700	99.4400	109.6546	109.3420	Natural
Link588	7185	7185(ml)	98.4500	98.4500	109.2959	109.2481	Natural
Link589	6832	6863.3	98.7700	98.4500	108.9737	109.0678	Natural
Link590	6832	6325	98.7700	97.8300	108.9737	107.0954	Natural
Link615	X-21	RD-1	106.7700	106.4400	109.2626	109.2626	Circular
Link616	X-22	RD-1	106.7700	106.4400	109.2626	109.2626	Circular
Link617	X-23	RD-1	106.7700	106.4400	109.2626	109.2626	Circular
Link618	X-24	RD-1	106.7700	106.4400	109.2626	109.2626	Circular
Link619	X-25	RD-2	105.6300	105.3000	109.2632	109.2631	Circular
Link620	X-26	RD-2	105.6300	105.3000	109.2632	109.2631	Circular
Link621	X-27	RD-2	105.6300	105.3000	109.2632	109.2631	Circular
Link622	X-28	RD-5	104.4500	104.1200	109.2367	109.2366	Circular
Link623	X-29	RD-5	104.4500	104.1200	109.2370	109.2366	Circular
Link624	X-30	RD-5	104.4500	104.1200	109.2382	109.2366	Circular
Link625	X-31	RD-5	104.4500	104.1200	109.2372	109.2366	Circular
Link626	X-32	RD-6	103.2200	102.8900	109.2420	109.2419	Circular
Link627	X-33	RD-6	103.2200	102.8900	109.2420	109.2419	Circular
Link628	X-34	RD-6	103.2200	102.8900	109.2423	109.2419	Circular
Link629	X-35	RD-6	103.2200	102.8900	109.2421	109.2419	Circular
Link630	X-36	RD-7	102.1600	101.8300	109.2496	109.2491	Circular
Link631	X-37	RD-7	102.1600	101.8300	109.2496	109.2491	Circular
Link632	X-38	RD-7	102.1600	101.8300	109.2496	109.2491	Circular
Link633	X-39	RD-7	102.1600	101.8300	109.2499	109.2491	Circular
Link634	X-43	RD-8	102.2700	101.9400	109.6384	109.6237	Circular
Link635	X-42	RD-8	102.2700	101.9400	109.6253	109.6237	Circular
Link636	X-41	RD-8	102.2700	101.9400	109.6297	109.6237	Circular
Link637	X-40	RD-8	102.2700	101.9400	109.6251	109.6237	Circular
L-CT-14	CT-14a	CT-13	99.6600	99.5900	109.0543	109.0474	Rectangle
L-CT-7	CT-7	CT-5	99.2500	99.1800	109.1069	109.1240	Rectangle
L-CT-5	CT-5	CT-3	99.1800	99.1100	109.1240	109.1309	Rectangle
L-CT-17	CT-17	CT-15	99.7600	99.6800	109.1078	109.0574	Rectangle
L-CT-29	CT-29	CT-27A	100.2700	100.2000	109.2187	109.1940	Rectangle
L-CO-3	CO-3	CO-5	109.5900	109.0000	112.8829	112.8715	Circular
L-RD-1	RD-1	RD-2	105.4400	104.2960	109.2626	109.2631	Trapezoid
L-RD-2	RD-2	RD-3	104.2960	103.7880	109.2631	109.2587	Trapezoid
L-RD-5	RD-5	RD-6	103.1150	101.8900	109.2366	109.2419	Trapezoid
L-RD-6	RD-6	RD-7	101.8900	100.8360	109.2419	109.2491	Trapezoid
L-RD-7	RD-7	7185	100.8360	100.3260	109.2491	109.2959	Trapezoid
Link649	RD-8	7185	100.9360	100.3000	109.6237	109.2959	Circular
L-RD-3	RD-3	RD-4	103.7880	103.7280	109.2587	109.2393	Circular
L-RD-4	RD-4	RD-5	103.7280	103.1150	109.2393	109.2366	Trapezoid
Link652	RD-9	RD-8	102.2880	100.9360	110.5394	109.6212	Circular
Link653	RD-10	RD-9	103.3750	102.2880	110.8141	110.5394	Circular
Link655	7216.8	7185	99.4400	98.4500	109.3420	109.2959	Natural
Link656	CS-5	7185(ml)	108.7500	108.5000	111.5800	109.2481	Trapezoid
Link657	CS-6	7185(ml)	108.6500	108.5000	109.9837	109.2481	Trapezoid
Link658	CS-3	CS-4	109.5000	109.4500	112.9319	112.8510	Trapezoid
Link659	CS-4	CS-5	109.4500	108.7500	112.8510	111.5800	Trapezoid
Link661	CN-9	6863.3	98.9300	98.4500	109.2709	109.0678	Rectangle
Link662	CA-1	CT-98	103.1200	101.2000	109.7587	109.1020	Circular
Link663	CA-2	CT-98	103.1200	101.2000	108.9741	109.1020	Circular
Link664	CA-3	CT-98	103.1200	101.2000	108.9720	109.1020	Circular
Link665	7185(ml)	6863.3	98.4500	98.4500	109.2481	109.0678	Natural

Table E18 - Junction Continuity Error. Division by Volume added 11/96

Continuity Error = Net Flow + Beginning Volume - Ending Volume / Total Flow + (Beginning Volume + Ending Volume)/2

Net Flow = Node Inflow - Node Outflow
Total Flow = absolute (Inflow + Outflow)
Intermediate column is a judgement on the node continuity error.

Excellent < 1 percent Great 1 to 2 percent Good 2 to 5 percent
Fair 5 to 10 percent Poor 10 to 25 percent Bad 25 to 50 percent
Terrible > 50 percent

Junction	<------Continuity Error ------->			Remaining	Beginning	Net Flow	Total Flow	Failed to
Name	Volume	% of Node	% of Inflow	Volume	Volume	Thru Node	Thru Node	Converge
CT-11a	64.2769	0.0021	0.0002	770.7818	0.0000	835.0587	3016432.921	0

CT-14a	-5.0070	-0.0002	0.0000	1286.7461	0.0000	1281.7391	2908639.520	0
CT-23a	-9.8737	-0.0005	0.0000	154.1589	0.0000	144.2852	2148828.933	0
CB-9	-7.3686	-0.0282	0.0000	0.0002	0.0000	-7.3684	26089.6853	0
CB-7	-6.6057	-0.0271	0.0000	0.0002	0.0000	-6.6055	24360.8971	0
CB-5	-6.6121	-0.0281	0.0000	0.0002	0.0000	-6.6119	23497.3404	0
CO-9	54.5309	0.0128	0.0001	3.5248	0.0000	58.0557	426101.5286	0
CT-8	33.7015	0.0010	0.0001	2229.9838	0.0000	2263.6853	3361706.322	0
CA-8	474.9845	0.6031	0.0013	0.0002	0.0000	474.9847	78762.2399	0
CT-7	2.0794	0.0001	0.0000	2217.1145	0.0000	2219.1939	3435514.548	0
CA-6	1944.4942	0.9276	0.0053	1.0056	0.0000	1945.4998	209621.8500	0
CT-5	2.9394	0.0001	0.0000	2702.0209	0.0000	2704.9603	3638255.032	0
CB-3	-5.8147	-0.0247	0.0000	0.0002	0.0000	-5.8145	23495.7332	0
CA-4	1617.2936	0.7088	0.0044	0.9057	0.0000	1618.1993	228181.5907	0
CT-3	-27.1858	-0.0007	0.0001	4387.3486	0.0000	4360.1628	4099469.703	0
CB-1	-13.0201	-0.0534	0.0000	0.0002	0.0000	-13.0199	24402.6069	1
CT-1	59.1006	0.0014	0.0002	4441.6980	0.0000	4500.7985	4090602.704	0
CB-2	1050.1757	0.4326	0.0029	0.0012	0.0000	1050.1769	242786.5504	0
CB-4	337.8335	0.3356	0.0009	0.0012	0.0000	337.8347	100653.8824	0
CT-9	-10.4740	-0.0003	0.0000	2243.9654	0.0000	2233.4914	3265886.582	0
CB-6	-167.5835	-0.1657	0.0005	0.0012	0.0000	-167.5823	101129.0516	0
CB-8	125.5360	0.0950	0.0003	0.0012	0.0000	125.5372	132154.1352	0
CT-27A	28.4502	0.0014	0.0001	279.3827	0.0000	307.8329	2047939.177	2
CA-37	249.3815	0.1762	0.0007	1.1621	0.0000	250.5436	141547.2177	0
CT-39	-11.2098	-0.0079	0.0000	2.3699	0.0000	-8.8399	141305.8570	0
CT-38	-19.4032	-0.0079	0.0001	3.1002	0.0000	-16.3030	245712.3809	0
CT-37	-928.9527	-0.3292	0.0025	6.6804	0.0000	-922.2723	282207.8937	0
CA-36	496.9260	3.7033	0.0014	0.0009	0.0000	496.9269	13418.4260	0
CB-26	-2.3065	-0.0102	0.0000	0.0004	0.0000	-2.3061	22644.8329	0
CB-29	-2.5546	-0.0113	0.0000	0.0008	0.0000	-2.5538	22648.2019	0
CB-28	-0.6700	-0.0030	0.0000	0.0001	0.0000	-0.6699	22645.1312	0
CA-35	-640.1705	-0.2368	0.0017	1.8302	0.0000	-638.3403	270353.6450	0
CT-36	-13.4345	-0.0024	0.0000	13.1281	0.0000	-0.3064	554117.6160	0
CT-35	-2.6582	-0.0005	0.0000	32.0415	0.0000	29.3833	554082.1810	0
CB-18	-0.9838	-661.1652	0.0000	0.0004	0.0000	-0.9834	0.1486	0
CA-34	602.3553	4.5252	0.0016	0.0002	0.0000	602.3555	13311.0034	0
CT-34	-6.6538	-0.0012	0.0000	70.2895	0.0000	63.6357	566686.4754	0
CA-33	-2100.7501	-0.3821	0.0057	4.6348	0.0000	-2096.1152	549823.6363	0
CT-33	-9472.2821	-0.8398	0.0258	114.7805	0.0000	-9357.5016	1127895.447	0
CA-32	534.6896	3.9963	0.0015	0.0002	0.0000	534.6898	13379.4699	0
CT-32	-3.9540	-0.0003	0.0000	121.4935	0.0000	117.5395	1149979.010	1
CT-31	-4.4521	-0.0003	0.0000	164.5432	0.0000	160.0911	1469505.341	1
CA-31	-335.3511	-0.1374	0.0009	0.0002	0.0000	-335.3509	244057.6088	0
CT-30	14.0661	0.0008	0.0000	182.2679	0.0000	196.3339	1815351.378	0
CT-29	-8.5772	-0.0005	0.0000	295.8354	0.0000	287.2582	1814874.320	1
CA-27	301.7103	6.1340	0.0008	0.0002	0.0000	301.7105	4918.6202	0
CT-27	14.8845	0.0007	0.0000	284.3061	0.0000	299.1906	2051979.779	1
CA-26	-3.5740	-0.0514	0.0000	0.0002	0.0000	-3.5737	6951.4844	0
CT-26	5.0299	0.0002	0.0000	375.4707	0.0000	380.5007	2058281.244	1
CA-25	-213.8290	-0.3824	0.0006	0.0002	0.0000	-213.8288	55923.9224	0
CT-25	13.0631	0.0006	0.0000	411.4575	0.0000	424.5206	2113621.955	1
CA-24	598.5559	100.2336	0.0016	0.0002	0.0000	598.5561	597.1608	0
CT-24	21.7569	0.0010	0.0001	361.4163	0.0000	383.1732	2112886.836	0
CT-23	12.5978	0.0006	0.0000	222.8334	0.0000	235.4312	2148630.283	0
CA-23	439.0484	99.8353	0.0012	0.0002	0.0000	439.0486	439.7727	0
CA-22	265.8344	99.8976	0.0007	0.0002	0.0000	265.8346	266.1067	0
CT-22	-1.0889	-0.0001	0.0000	378.7921	0.0000	377.7032	2147210.376	0
CA-21	-161.5811	-0.2316	0.0004	0.0002	0.0000	-161.5808	69768.6966	0
CT-21	5.1821	0.0002	0.0000	432.0679	0.0000	437.2501	2215780.318	0
CT-20	2.1867	0.0001	0.0000	428.9577	0.0000	431.1444	2214980.903	0
CA-20	-33.4943	-99.8908	0.0001	0.0002	0.0000	-33.4940	33.5308	0
CA-19	-147.3748	-0.5271	0.0004	0.0002	0.0000	-147.3745	27957.5831	0
CT-19	0.9050	0.0000	0.0000	447.4770	0.0000	448.3821	2242203.060	0
CT-18	13.3093	0.0005	0.0000	791.6484	0.0000	804.9577	2437227.957	0
CA-18	-185.6703	-0.1868	0.0005	0.0002	0.0000	-185.6700	99402.4686	0

CA-17	-98.0774	-0.8602	0.0003	0.0002	0.0000	-98.0772	11402.0572	0
CT-17	-11.7566	-0.0005	0.0000	947.6382	0.0000	935.8816	2446990.114	0
CA-15	-320.3381	-0.2308	0.0009	0.0002	0.0000	-320.3379	138781.9820	0
CT-15	-642.3080	-0.0231	0.0017	566.7825	0.0000	-75.5254	2777744.627	0
CA-13	179.9517	2.6518	0.0005	0.0002	0.0000	179.9519	6786.0581	0
CT-13	3.0366	0.0001	0.0000	2471.6569	0.0000	2474.6935	2911549.670	0
CA-12	95.6018	0.9256	0.0003	0.0002	0.0000	95.6021	10328.5455	0
CT-12	63.5994	0.0022	0.0002	1866.7394	0.0000	1930.3387	2917497.514	0
CT-11	20.9406	0.0007	0.0001	1055.7748	0.0000	1076.7154	3133902.207	0
CA-11	213.0567	0.1789	0.0006	0.0002	0.0000	213.0569	119088.1466	0
CT-10	725.1428	0.0222	0.0020	1704.5590	0.0000	2429.7018	3270617.544	0
CT-98	49.0317	0.0011	0.0001	2946.4445	0.0000	2995.4763	4522353.217	0
CT-99	-112.9761	-0.0024	0.0003	3189.1541	0.0000	3076.1780	4665948.795	0
CB-10	-44.5367	-0.0461	0.0001	0.0012	0.0000	-44.5356	96648.7101	0
CB-11	-17.0860	-0.0456	0.0000	0.0012	0.0000	-17.0849	37493.8427	0
CB-15	-13.7189	-0.0438	0.0000	0.0009	0.0000	-13.7181	31352.0473	0
CB-14	-126.3713	-0.1006	0.0003	0.0012	0.0000	-126.3701	125560.8341	0
CB-16	-19.4951	-0.0061	0.0001	0.0011	0.0000	-19.4940	319800.0529	0
CB-17	-525.8733	-1.0489	0.0014	0.0003	0.0000	-525.8730	50134.6107	0
X-43	-4387.0855	-18.0077	0.0119	0.0002	0.0000	-4387.0854	24362.3163	1
X-42	-1754.8410	-7.7613	0.0048	0.0002	0.0000	-1754.8408	22610.1028	1
X-41	-6624.4295	-24.8733	0.0180	0.0002	0.0000	-6624.4293	26632.6427	0
X-40	-3427.8236	-8.5820	0.0093	0.0002	0.0000	-3427.8234	39941.7998	0
CB-19	18.7505	0.0059	0.0001	0.0009	0.0000	18.7514	319804.7376	0
CP-4	266.6083	0.0508	0.0007	3.1210	0.0000	269.7292	524901.8872	0
CP-6	9.0340	0.0051	0.0000	1.4858	0.0000	10.5198	178381.5265	0
CQ-10	9.4529	0.0217	0.0000	0.0011	0.0000	9.4539	43499.9313	0
CS-2	-4765.9186	-0.8477	0.0130	9.9471	0.0000	-4755.9714	562220.6027	0
X-39	-2.0516	-0.0058	0.0000	0.0002	0.0000	-2.0514	35658.4315	0
X-38	-2.5599	-0.0102	0.0000	0.0002	0.0000	-2.5598	25200.7495	0
X-37	-2.6364	-0.0116	0.0000	0.0002	0.0000	-2.6363	22644.7804	0
X-36	-2.5880	-0.0099	0.0000	0.0002	0.0000	-2.5878	26100.7626	0
X-35	-6.2335	-0.0189	0.0000	0.0002	0.0000	-6.2333	33035.7429	0
X-34	-5.9557	-0.0149	0.0000	0.0002	0.0000	-5.9556	40019.5468	0
X-33	-6.5469	-0.0251	0.0000	0.0002	0.0000	-6.5467	26105.9658	0
X-32	-6.6185	-0.0253	0.0000	0.0002	0.0000	-6.6184	26124.0284	0
X-31	-5077.2498	-17.2325	0.0138	0.0002	0.0000	-5077.2497	29463.1547	0
X-30	-7036.5593	-13.6843	0.0192	0.0002	0.0000	-7036.5591	51420.5308	0
X-29	-7651.8742	-31.6749	0.0208	0.0002	0.0000	-7651.8741	24157.5505	0
X-28	-2.9045	-0.0145	0.0000	0.0002	0.0000	-2.9043	20018.6717	0
X-27	3.0351	0.0129	0.0000	0.0002	0.0000	3.0353	23487.8243	0
X-26	0.6674	0.0035	0.0000	0.0002	0.0000	0.6676	19151.9813	0
X-25	2.2191	0.0102	0.0000	0.0002	0.0000	2.2193	21706.5409	0
X-24	-0.1560	-0.0007	0.0000	0.0002	0.0000	-0.1559	21708.1214	0
X-23	-1.8228	-0.0110	0.0000	0.0002	0.0000	-1.8226	16561.6802	0
X-22	-2.7350	-0.0197	0.0000	0.0002	0.0000	-2.7348	13916.5449	0
X-21	0.5081	0.0023	0.0000	0.0002	0.0000	0.5083	21725.4879	0
CO-1	16.4010	0.1047	0.0000	0.0016	0.0000	16.4026	15662.1271	0
CO-5	-118.9112	-0.1895	0.0003	1.5373	0.0000	-117.3739	62745.7561	0
CN-1	-252.8625	-0.1368	0.0007	0.0128	0.0000	-252.8497	184810.3410	0
CN-2	1783.9507	0.2487	0.0049	7.4716	0.0000	1791.4223	717230.1132	0
CN-3	1130.4876	0.1447	0.0031	26.8808	0.0000	1157.3685	781267.2971	0
CN-4	3174.6377	0.1634	0.0086	66.3823	0.0000	3241.0200	1943378.659	0
CN-5	193.6263	0.0095	0.0005	105.8829	0.0000	299.5092	2046105.004	0
CN-6	-1264.1055	-0.0590	0.0034	91.2259	0.0000	-1172.8796	2141886.458	0
CN-7	-468.7934	-0.0168	0.0013	1148.8127	0.0000	680.0193	2783969.528	0
CN-8	2551.0644	0.0827	0.0069	2528.5955	0.0000	5079.6599	3084804.468	0
6863.3	11611.0502	0.0159	0.0316	11150.0841	0.0000	22761.1343	73152510.39	0
CR-8	-38.6698	-0.1111	0.0001	0.0015	0.0000	-38.6684	34797.6081	0
CR-6	-41.2132	-0.0260	0.0001	0.0018	0.0000	-41.2114	158523.7450	0
CR-5	-248.9511	-0.2187	0.0007	0.0028	0.0000	-248.9483	113817.4559	0
CR-3	141.2566	0.1645	0.0004	0.0029	0.0000	141.2595	85865.3730	0
CR-1	71.0634	0.1741	0.0002	0.0014	0.0000	71.0648	40807.6777	0
CQ-9	-53.5138	-0.0101	0.0001	2.6227	0.0000	-50.8911	529296.8233	0

CQ-8	-321.0711	-0.0672	0.0009	3.8317	0.0000	-317.2394	477637.9509	0
CQ-7	319.1107	0.0691	0.0009	6.4418	0.0000	325.5525	461990.8632	0
CQ-5	-243.9082	-0.0713	0.0007	6.5398	0.0000	-237.3684	341949.9920	0
CQ-3	143.0571	0.0738	0.0004	3.4612	0.0000	146.5183	193967.5047	0
CP-1	-23.5898	-0.5430	0.0001	0.0011	0.0000	-23.5887	4344.0754	0
CO-10	266.7728	0.1274	0.0007	1.7998	0.0000	268.5726	209478.6473	0
CQ-1	-39.4550	-0.7501	0.0001	0.0012	0.0000	-39.4538	5260.0624	0
CS-1	-3452.6256	-0.7548	0.0094	5.8081	0.0000	-3446.8175	457420.7193	0
CT2-1	6.1435	0.0228	0.0000	0.0004	0.0000	6.1440	26978.0494	0
CT2-2	71.0539	0.1461	0.0002	0.0021	0.0000	71.0560	48631.2186	0
6832	19019.7182	0.0259	0.0518	4321.6115	0.0000	23341.3298	73443668.85	0
CP-5	166.5276	0.0934	0.0005	2.2140	0.0000	168.7416	178204.5410	0
CP-3	98.7647	0.0660	0.0003	3.5909	0.0000	102.3556	149598.8286	0
CP-2	-12.4993	-0.0084	0.0000	2.5820	0.0000	-9.9173	149685.3009	0
CU-3	1072.9454	0.4631	0.0029	0.0024	0.0000	1072.9478	231681.7332	0
CU-2	311.9261	0.1677	0.0008	0.0010	0.0000	311.9271	186010.8271	0
7253.3	14692.2542	0.0234	0.0400	169.6993	0.0000	14861.9535	62911199.57	0
7185	6416.3038	0.0099	0.0175	2593.0461	0.0000	9009.3499	64506541.58	0
6325	-3579.3334	-0.0049	0.0097	3509.5178	6.7291	-76.5447	73420921.53	0
CO-3	28.7448	0.0459	0.0001	0.0023	0.0000	28.7471	62653.3010	0
RD-1	-1689.8489	-2.2359	0.0046	45.1638	0.0000	-1644.6851	75556.3139	0
RD-2	-1826.7692	-0.7469	0.0050	111.3681	0.0000	-1715.4011	244532.0109	0
RD-5	-4695.7428	-0.8101	0.0128	349.5484	0.0000	-4346.1944	579489.6752	0
RD-6	-6019.5817	-0.7161	0.0164	513.2112	0.0000	-5506.3705	840316.7645	0
RD-7	-4094.4886	-0.3820	0.0112	481.2009	0.0000	-3613.2877	1071674.041	0
RD-8	-6230.2326	-1.0890	0.0170	323.8891	0.0000	-5906.3435	571941.9894	0
RD-3	-998.9157	-0.3418	0.0027	69.5838	0.0000	-929.3319	292246.6124	0
RD-4	-1504.8545	-0.4693	0.0041	101.6848	0.0000	-1403.1697	320615.4014	0
RD-9	-94.4299	-0.0329	0.0003	210.1361	0.0000	115.7063	286665.1000	0
RD-10	-562.2883	-0.3352	0.0015	66.0579	0.0000	-496.2304	167691.4210	0
7216.8	10578.9952	0.0168	0.0288	337.6383	0.0000	10916.6336	62871666.50	0
CS-3	264.9164	0.0888	0.0007	0.0504	0.0000	264.9668	298376.8550	0
CS-4	-403.5033	-0.0886	0.0011	8.5059	0.0000	-394.9974	455201.3168	0
CS-5	621.6391	0.1032	0.0017	10.9558	0.0000	632.5949	602099.2316	0
CS-6	372.2572	0.3671	0.0010	0.1446	0.0000	372.4018	101396.1145	0
CA-1	-989.1096	-0.3495	0.0027	0.4831	0.0000	-988.6265	283043.6556	0
CA-2	-116.6213	-0.8871	0.0003	0.0002	0.0000	-116.6211	13146.9217	0
CA-3	560.6380	3.6329	0.0015	1130.9404	0.0000	1691.5783	14866.6847	0
CN-9	1711.0727	0.0531	0.0047	2942.9946	0.0000	4654.0673	3221364.584	0
7185(ml)	8417.8908	0.0129	0.0229	9156.3852	0.0000	17574.2761	65216218.00	0

The total continuity error was 214.25 cubic feet
The remaining total volume was 82250. cubic feet
Your mean node continuity error was Excellent
Your worst node continuity error was Excellent

Table E19 - Junction Inflow & Outflow Listing
Units are either ft^3 or m^3
depending on the units in your model.

Junction Name	Constant Inflow to Node	User Inflow to Node	Interface Inflow to Node	DWF Inlow to Node	Inflow through Outfall	RNF Layer Inflow to Node	Outflow from Node	Evaporation from Node	Inflow from 2D Layer
CB-9	0.0000	13041.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
CB-7	0.0000	12177.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
CB-5	0.0000	11745.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
CO-9	0.0000	77040.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
CA-8	0.0000	39618.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
CA-6	0.0000	105781.6000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
CB-3	0.0000	11745.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
CA-4	0.0000	114898.6000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
CB-1	0.0000	12195.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
CB-2	0.0000	109710.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
CB-4	0.0000	38745.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
CB-6	0.0000	38727.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
CB-8	0.0000	53955.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
CT-27A	0.0000	53982.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
CA-37	0.0000	70897.6000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
CT-38	0.0000	52191.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	

CA-36	0.0000	6957.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CB-28	0.0000	11322.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CA-35	0.0000	134856.2000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CA-34	0.0000	6957.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CA-33	0.0000	273861.8000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CA-32	0.0000	6957.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CA-31	0.0000	121860.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CT-30	0.0000	50895.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CA-27	0.0000	2610.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CA-26	0.0000	3474.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CA-25	0.0000	27855.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CA-21	0.0000	34803.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CA-19	0.0000	13905.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CA-18	0.0000	49608.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CA-17	0.0000	5652.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CA-15	0.0000	69228.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CT-15	0.0000	96237.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CA-13	0.0000	3483.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CA-12	0.0000	5211.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CA-11	0.0000	59652.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CT-10	0.0000	70038.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CT-98	0.0000	64395.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CT-99	0.0000	74844.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CB-10	0.0000	35253.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CB-11	0.0000	18738.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CB-15	0.0000	15669.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CB-14	0.0000	47034.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CB-16	0.0000	134559.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CB-17	0.0000	24804.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
X-43	0.0000	9990.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
X-42	0.0000	10431.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
X-41	0.0000	10008.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
X-40	0.0000	18261.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CP-4	0.0000	98806.6000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CP-6	0.0000	89194.6000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CQ-10	0.0000	21753.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CS-2	0.0000	48294.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
X-39	0.0000	17829.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
X-38	0.0000	12600.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
X-37	0.0000	11322.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
X-36	0.0000	13050.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
X-35	0.0000	16515.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
X-34	0.0000	20007.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
X-33	0.0000	13050.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
X-32	0.0000	13059.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
X-31	0.0000	12195.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
X-30	0.0000	22194.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
X-29	0.0000	8253.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
X-28	0.0000	10008.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
X-27	0.0000	11745.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
X-26	0.0000	9576.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
X-25	0.0000	10854.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
X-24	0.0000	10854.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
X-23	0.0000	8280.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
X-22	0.0000	6957.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
X-21	0.0000	10863.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CO-1	0.0000	7839.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CN-1	0.0000	92277.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CN-2	0.0000	53955.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CN-3	0.0000	33489.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CN-4	0.0000	37431.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CN-5	0.0000	53127.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CN-6	0.0000	47457.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CN-7	0.0000	56124.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

CN-8	0.0000	74016.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CR-8	0.0000	17379.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CR-6	0.0000	4788.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CR-5	0.0000	13923.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CR-3	0.0000	22635.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CR-1	0.0000	20439.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CQ-9	0.0000	3897.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CQ-8	0.0000	7830.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CQ-7	0.0000	60066.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CQ-5	0.0000	73944.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CQ-3	0.0000	94405.6000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CP-1	0.0000	2160.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CO-10	0.0000	104872.6000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CQ-1	0.0000	2610.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CS-1	0.0000	226985.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CT2-1	0.0000	13491.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CT2-2	0.0000	10863.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CP-2	0.0000	72652.6000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CU-3	0.0000	23526.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CU-2	0.0000	93159.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
7253.3	0.0000	31.4738E+06	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
6325	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	36.7105E+06	0.0000
CO-3	0.0000	23517.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
RD-2	0.0000	50639.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
RD-5	0.0000	54153.4000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
RD-6	0.0000	62834.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
RD-7	0.0000	56322.4000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
RD-8	0.0000	74894.2000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
RD-3	0.0000	22536.2000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
RD-4	0.0000	13018.6000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
RD-9	0.0000	59297.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
RD-10	0.0000	83597.2000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CS-3	0.0000	149319.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CS-4	0.0000	78345.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CS-5	0.0000	73566.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CS-6	0.0000	50886.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CA-1	0.0000	141025.6000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CA-2	0.0000	6516.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CA-3	0.0000	8280.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CN-9	0.0000	73152.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Table E20 - Junction Flooding and Volume Listing. The maximum volume is the total volume in the node including the volume in the flooded storage area. This is the max volume at any time. The volume in the flooded storage area is the total volume above the ground elevation, where the flooded pond storage area starts. The fourth column is instantaneous, the fifth is the sum of the flooded volume over the entire simulation. Units are either ft^3 or m^3 depending on the units.

Junction Name	Surcharged Time (min)	Flooded Time(min)	Out of 1D-System (Flooded Volume)	Maximum Volume	Passed to 2D cell OR Volume Stored in allowed Flood Pond of 1D-System
CT-11a	635.4000	0.0000	0.0000	120.0911	0.0000
CT-14a	600.0162	0.0000	0.0000	118.0489	0.0000
CT-23a	548.0196	0.0000	0.0000	114.8085	0.0000
CB-9	388.8599	93.5812	0.0000	118.6718	64.1176
CB-7	387.8075	70.7698	0.0000	81.2047	21.5233
CB-5	387.1409	58.9802	0.0000	72.1785	11.4306
CO-9	212.0372	154.6464	0.0000	2100.4803	2251.2515
CT-8	678.6444	0.0000	0.0000	123.0275	0.0000
CA-8	480.2370	248.9219	0.0000	16215.4222	17612.0868
CT-7	691.5556	0.0000	0.0000	123.8612	0.0000
CA-6	565.0000	296.0971	0.0000	28403.7262	32296.6841
CT-5	710.1905	0.0000	0.0000	124.9561	0.0000
CB-3	386.2990	47.5772	0.0000	67.1327	5.6779
CA-4	519.2473	240.7578	0.0000	15234.7544	17704.4915

CT-3	726.9524	0.0000	0.0000	125.9226	0.0000
CB-1	403.2528	136.3901	0.0000	467.5884	451.5919
CT-1	755.9762	0.0000	0.0000	128.1109	0.0000
CB-2	434.3054	289.3982	0.0000	35924.6631	39305.8727
CB-4	417.8536	273.3092	0.0000	24676.1071	26763.6448
CT-9	661.1556	0.0000	0.0000	121.7261	0.0000
CB-6	415.7623	277.7338	0.0000	25210.1058	27557.7853
CB-8	413.1043	281.7533	0.0000	25889.6757	28506.8797
CT-27A	523.5969	0.0000	0.0000	113.0181	0.0000
CA-37	591.4000	293.8415	0.0000	17874.2696	20585.7783
CT-39	452.7439	0.0000	0.0000	95.0551	0.0000
CT-38	459.0439	0.0000	0.0000	101.9507	0.0000
CT-37	463.5930	336.9857	0.0000	78303.7747	80079.8688
CA-36	586.1042	323.6791	0.0000	34011.2059	37961.3025
CB-26	0.0000	0.0000	0.0000	97.2884	0.0000
CB-29	0.0000	0.0000	0.0000	4.7173	0.0000
CB-28	0.0000	0.0000	0.0000	6.1136	0.0000
CA-35	557.8235	322.5558	0.0000	34158.2291	38285.7774
CT-36	471.1550	0.0000	0.0000	109.4615	0.0000
CT-35	477.8772	0.0000	0.0000	110.0328	0.0000
CB-18	617.1667	0.0000	0.0000	90.0415	0.0000
CA-34	566.5490	319.3024	0.0000	31483.0807	35448.8627
CT-34	480.5828	0.0000	0.0000	110.3833	0.0000
CA-33	603.2003	332.0762	0.0000	66327.3139	74160.2166
CT-33	494.5068	339.9614	0.0000	86065.2393	89019.3039
CA-32	556.0588	314.5410	0.0000	29616.2758	33352.4856
CT-32	494.3840	0.0000	0.0000	111.3974	0.0000
CT-31	499.7407	0.0000	0.0000	111.6556	0.0000
CA-31	546.8039	311.7381	0.0000	32809.0873	36791.1403
CT-30	509.4630	0.0000	0.0000	112.2820	0.0000
CT-29	513.4815	0.0000	0.0000	112.4491	0.0000
CA-27	500.4425	289.9406	0.0000	21317.3270	23877.1493
CT-27	526.2527	0.0000	0.0000	113.2263	0.0000
CA-26	499.0487	0.0000	0.0000	79.2508	0.0000
CT-26	534.8235	0.0000	0.0000	113.8063	0.0000
CA-25	527.3900	297.5617	0.0000	24222.0340	26775.8724
CT-25	538.8442	0.0000	0.0000	114.0813	0.0000
CA-24	561.0000	308.0105	0.0000	28316.9180	32121.4200
CT-24	545.3725	0.0000	0.0000	114.5955	0.0000
CT-23	549.3137	0.0000	0.0000	114.9122	0.0000
CA-23	549.3333	302.5358	0.0000	26694.1131	30149.3257
CA-22	525.9542	294.2244	0.0000	23695.6387	26626.0741
CT-22	553.2157	0.0000	0.0000	115.2240	0.0000
CA-21	494.6628	284.7153	0.0000	19861.3664	21912.6731
CT-21	558.3922	0.0000	0.0000	115.6453	0.0000
CT-20	562.2353	0.0000	0.0000	115.9403	0.0000
CA-20	467.3148	268.9106	0.0000	16112.5992	17936.4324
CA-19	445.4728	253.7747	0.0000	12590.6241	13835.2228
CT-19	566.1765	0.0000	0.0000	116.2408	0.0000
CT-18	571.4265	0.0000	0.0000	116.6603	0.0000
CA-18	426.8706	244.6791	0.0000	9000.1253	9989.8464
CA-17	472.9926	266.4666	0.0000	16480.3089	18262.0567
CT-17	582.6875	0.0000	0.0000	117.4643	0.0000
CA-15	504.1150	276.8917	0.0000	19825.5191	21958.9290
CT-15	596.4024	278.3622	0.0000	27131.3039	29514.9852
CA-13	451.0952	233.6577	0.0000	12202.1630	13583.7138
CT-13	613.0625	0.0000	0.0000	118.8417	0.0000
CA-12	455.3576	234.4950	0.0000	12765.7410	14109.1016
CT-12	628.8750	0.0000	0.0000	119.7494	0.0000
CT-11	639.8222	0.0000	0.0000	120.3237	0.0000
CA-11	487.2815	260.0321	0.0000	17675.2290	19844.3079
CT-10	649.3556	291.1667	0.0000	36357.7522	40176.8840
CT-98	801.1026	0.0000	0.0000	128.5756	0.0000
CT-99	819.3846	0.0000	0.0000	129.1530	0.0000

CB-10	362.3044	271.5790	0.0000	15898.9282	17475.6447
CB-11	387.9463	106.3065	0.0000	147.1326	95.5765
CB-15	388.4887	116.9582	0.0000	179.9223	131.7450
CB-14	409.6516	248.7433	0.0000	7476.6079	8319.7834
CB-16	426.2778	0.0000	0.0000	90.6274	0.0000
CB-17	375.8611	176.6169	0.0000	10297.1414	11089.4079
X-43	543.9510	110.4773	0.0000	833.1389	2597.4999
X-42	543.9510	111.1551	0.0000	758.3606	3801.4876
X-41	543.9510	108.8482	0.0000	783.5226	2716.9661
X-40	543.9510	111.0034	0.0000	757.3150	3239.3030
CB-19	617.1875	0.0000	0.0000	102.8778	0.0000
CP-4	214.8957	180.9048	0.0000	8383.6865	9778.1266
CP-6	211.1437	190.8317	0.0000	12141.3569	14233.5798
CQ-10	125.7999	20.6958	0.0000	27.1298	1.2373
CS-2	209.5466	186.5260	0.0000	13430.2069	16403.9328
X-39	551.6852	0.0000	0.0000	89.0914	0.0000
X-38	551.6852	0.0000	0.0000	89.0883	0.0000
X-37	551.6852	0.0000	0.0000	89.0881	0.0000
X-36	551.6852	0.0000	0.0000	89.0884	0.0000
X-35	418.3282	0.0000	0.0000	75.6742	0.0000
X-34	418.3282	0.0000	0.0000	75.6758	0.0000
X-33	418.3282	0.0000	0.0000	75.6723	0.0000
X-32	418.3282	0.0000	0.0000	75.6726	0.0000
X-31	324.1445	189.6061	0.0000	5501.3852	7388.6324
X-30	323.6778	194.3980	0.0000	5511.6741	7732.6860
X-29	323.4617	195.4355	0.0000	5499.1050	7748.0978
X-28	324.2989	0.0000	0.0000	60.1492	0.0000
X-27	207.9775	0.0000	0.0000	45.6543	0.0000
X-26	207.9775	0.0000	0.0000	45.6542	0.0000
X-25	207.9775	0.0000	0.0000	45.6543	0.0000
X-24	0.0000	0.0000	0.0000	31.3222	0.0000
X-23	0.0000	0.0000	0.0000	31.3222	0.0000
X-22	0.0000	0.0000	0.0000	31.3222	0.0000
X-21	0.0000	0.0000	0.0000	31.3223	0.0000
CO-1	160.8799	0.0000	0.0000	27.4908	0.0000
CO-5	206.0449	0.0000	0.0000	54.9318	0.0000
CN-1	209.8851	209.2938	0.0000	23342.6581	27195.1046
CN-2	212.3917	209.6930	0.0000	36588.6736	42120.5735
CN-3	213.6643	209.5934	0.0000	37862.9416	43929.9106
CN-4	217.6420	211.1038	0.0000	50396.5842	58379.1117
CN-5	236.5351	209.7466	0.0000	32743.8109	38329.8615
CN-6	303.6369	188.8802	0.0000	11077.4434	12961.4187
CN-7	341.0608	167.7768	0.0000	8073.0736	9380.9638
CN-8	472.1148	243.2559	0.0000	37502.4898	41838.4683
6863.3	0.0000	0.0000	0.0000	133.4241	0.0000
CR-8	257.5856	175.3959	0.0000	4514.6119	4970.4200
CR-6	320.1567	0.0000	0.0000	72.0109	0.0000
CR-5	277.1017	0.0000	0.0000	64.2783	0.0000
CR-3	204.1493	0.0000	0.0000	41.7322	0.0000
CR-1	173.2377	0.0000	0.0000	27.8842	0.0000
CQ-9	154.4553	0.0000	0.0000	89.7335	0.0000
CQ-8	287.0044	0.0000	0.0000	86.4804	0.0000
CQ-7	238.8911	37.8568	0.0000	151.9532	84.8434
CQ-5	214.2277	66.5051	0.0000	834.8138	898.2084
CQ-3	199.9664	107.2069	0.0000	10630.6444	11498.8121
CP-1	211.5370	171.5179	0.0000	5736.8095	6366.2433
CO-10	210.7093	158.7800	0.0000	11932.7594	13984.7831
CQ-1	179.8330	93.4572	0.0000	2227.0559	2389.4637
CS-1	203.7281	198.9863	0.0000	25033.5880	29801.0709
CT2-1	235.3235	95.9094	0.0000	94.0201	468.7158
CT2-2	272.3004	0.0000	0.0000	44.0383	0.0000
6832	0.0000	0.0000	0.0000	128.2201	0.0000
CP-5	212.6035	187.0059	0.0000	10120.1765	11830.7524
CP-3	213.9448	162.0285	0.0000	3183.6549	3675.9451

CP-2	211.9092	142.1291	0.0000	941.1661	995.6902
CU-3	323.4336	216.0986	0.0000	10821.4819	12691.5887
CU-2	289.7874	180.9278	0.0000	12290.7671	14417.8376
7253.3	0.0000	0.0000	0.0000	127.9809	0.0000
7185	0.0000	0.0000	0.0000	136.2900	0.0000
6325	0.0000	0.0000	0.0000	124.3462	0.0000
CO-3	191.6235	0.0000	0.0000	41.3791	0.0000
RD-1	0.0000	0.0000	0.0000	48.0349	0.0000
RD-2	194.8926	0.0000	0.0000	62.4171	0.0000
RD-5	280.5378	0.0000	0.0000	76.9242	0.0000
RD-6	362.5333	0.0000	0.0000	92.3838	0.0000
RD-7	458.2876	0.0000	0.0000	105.7194	0.0000
RD-8	454.6833	107.1352	0.0000	765.7811	8603.5886
RD-3	231.0189	0.0000	0.0000	68.7443	0.0000
RD-4	232.7353	0.0000	0.0000	69.2549	0.0000
RD-9	559.5412	233.0544	0.0000	9227.5551	10701.1461
RD-10	434.8549	262.7361	0.0000	13683.6913	15837.2021
7216.8	0.0000	0.0000	0.0000	124.4283	0.0000
CS-3	370.3078	367.9286	0.0000	51912.7959	61253.0484
CS-4	368.2262	366.2292	0.0000	47491.9292	65506.8859
CS-5	369.2985	276.1138	0.0000	9745.0129	19857.8136
CS-6	41.9485	0.0000	0.0000	16.7594	0.0000
CA-1	466.4605	104.6052	0.0000	3818.7524	4497.1463
CA-2	463.6708	176.9585	0.0000	4778.7972	5852.0540
CA-3	463.6708	190.4877	0.0000	9146.9505	9149.1705
CN-9	558.3922	233.4048	0.0000	23620.3365	28331.7050
7185(ml)	0.0000	0.0000	0.0000	135.6893	0.0000

```
*==================================*
| Simulation Specific Information  |
*==================================*
Number of Input Conduits.........       168 Number of Simulated Conduits......       169
Number of Natural Channels.......         6 Number of Junctions...............       169
Number of Storage Junctions.....         60 Number of Weirs...................         0
Number of Orifices..............         0 Number of Pumps....................         0
Number of Free Outfalls.........         1 Number of Tide Gate Outfalls......         0


*=========================================================*
| Average % Change in Junction or Conduit is defined as:  |
| Conduit  % Change ==> 100.0 ( Q(n+1) - Q(n) ) / Qfull   |
| Junction % Change ==> 100.0 ( Y(n+1) - Y(n) ) / Yfull   |
*=========================================================*

The Conduit with the largest average change was..Link588    with     0.918 percent
The Junction with the largest average change was.CA-1       with     0.202 percent
The Conduit with the largest sinuosity was.......Link588    with   251.641


*==================================================================*
| Table E21. Continuity balance at the end of the simulation       |
|          Junction Inflow, Outflow or Street Flooding             |
| Error = Inflow  + Initial Volume - Outflow - Final   Volume      |
*==================================================================*
```

Inflow Junction	Inflow Volume,ft^3	Average Inflow, cfs
CB-9	13041.2300	0.1006
CB-7	12177.2061	0.0940
CB-5	11745.2102	0.0906
CO-9	77041.9979	0.5945
CA-8	39618.5575	0.3057
CA-6	105783.5312	0.8162
CB-3	11745.2102	0.0906
CA-4	114900.6548	0.8866
CB-1	12195.2405	0.0941
CB-2	109711.5605	0.8465
CB-4	38745.5791	0.2990
CB-6	38727.5951	0.2988
CB-8	53955.8658	0.4163
CT-27A	53983.4249	0.4165
CA-37	70898.5611	0.5471
CT-38	52191.8850	0.4027
CA-36	6957.1686	0.0537
CB-28	11322.3022	0.0874
CA-35	134857.8793	1.0406
CA-34	6957.1346	0.0537
CA-33	273863.2911	2.1131
CA-32	6957.1346	0.0537

CA-31	121861.1666	0.9403
CT-30	50895.9140	0.3927
CA-27	2610.0529	0.0201
CA-26	3474.0764	0.0268
CA-25	27855.4757	0.2149
CA-21	34803.6660	0.2685
CA-19	13905.2860	0.1073
CA-18	49608.8122	0.3828
CA-17	5652.1166	0.0436
CA-15	69230.0277	0.5342
CT-15	96239.0817	0.7426
CA-13	3483.0601	0.0269
CA-12	5211.0879	0.0402
CA-11	59652.7994	0.4603
CT-10	70039.1734	0.5404
CT-98	64396.2532	0.4969
CT-99	74845.1219	0.5775
CB-10	35253.9409	0.2720
CB-11	18738.3789	0.1446
CB-15	15669.3144	0.1209
CB-14	47035.0810	0.3629
CB-16	134560.6867	1.0383
CB-17	24804.4898	0.1914
X-43	9990.1649	0.0771
X-42	10431.1776	0.0805
X-41	10008.2156	0.0772
X-40	18261.3662	0.1409
CP-4	98808.4138	0.7624
CP-6	89195.9155	0.6882
CQ-10	21753.4010	0.1679
CS-2	48294.7482	0.3726
X-39	17829.3552	0.1376
X-38	12600.2515	0.0972
X-37	11322.2161	0.0874
X-36	13050.2459	0.1007
X-35	16515.3041	0.1274
X-34	20007.3801	0.1544
X-33	13050.2789	0.1007
X-32	13059.2625	0.1008
X-31	12195.2405	0.0941
X-30	22194.4717	0.1713
X-29	8253.1369	0.0637
X-28	10008.1988	0.0772
X-27	11745.2102	0.0906
X-26	9576.1700	0.0739
X-25	10854.1887	0.0838
X-24	10854.1887	0.0838
X-23	8280.1532	0.0639
X-22	6957.1174	0.0537
X-21	10863.1719	0.0838
CO-1	7839.1541	0.0605
CN-1	92278.4168	0.7120
CN-2	53955.8333	0.4163
CN-3	33489.5070	0.2584
CN-4	37431.6084	0.2888
CN-5	53127.7317	0.4099
CN-6	47457.6477	0.3662
CN-7	56124.8904	0.4331
CN-8	74016.8674	0.5711
CR-8	17379.4976	0.1341
CR-6	4788.1474	0.0369
CR-5	13923.3931	0.1074
CR-3	22635.7180	0.1747
CR-1	20439.6464	0.1577

CQ-9	3897.0871	0.0301
CQ-8	7830.1584	0.0604
CQ-7	60066.5362	0.4635
CQ-5	73945.6530	0.5706
CQ-3	94406.9160	0.7284
CP-1	2160.0408	0.0167
CO-10	104873.8867	0.8092
CQ-1	2610.0529	0.0201
CS-1	226986.6992	1.7514
CT2-1	13491.2085	0.1041
CT2-2	10863.3114	0.0838
CP-2	72653.5497	0.5606
CU-3	23526.6115	0.1815
CU-2	93159.9798	0.7188
7253.3	31.47357E+06	242.8516
CO-3	23517.6361	0.1815
RD-2	50639.4298	0.3907
RD-5	54154.3381	0.4179
RD-6	62835.0512	0.4848
RD-7	56323.3932	0.4346
RD-8	74894.8778	0.5779
RD-3	22536.4932	0.1739
RD-4	13018.8183	0.1005
RD-9	59297.9627	0.4575
RD-10	83598.5618	0.6451
CS-3	149320.5970	1.1522
CS-4	78346.1496	0.6045
CS-5	73567.0258	0.5676
CS-6	50886.8166	0.3926
CA-1	141028.0510	1.0882
CA-2	6516.1227	0.0503
CA-3	8280.1532	0.0639
CN-9	73152.9988	0.5645
6325	-36.711E+06	-283.2604

Outflow Junction	Outflow Volume,ft^3	Average Outflow, cfs
6325	36.71054E+06	283.2604

```
*=====================================================*
| Initial system volume        =         6.7291 Cu Ft |
| Total system inflow volume   =  36.714145E+06 Cu Ft |
| Inflow + Initial volume      =  36.714152E+06 Cu Ft |
*=====================================================*
| Total system outflow         =  36.710544E+06 Cu Ft |
| Volume left in system        =     82250.1665 Cu Ft |
| Evaporation                  =         0.0000 Cu Ft |
| Outflow + Final Volume       =  36.792794E+06 Cu Ft |
*=====================================================*


*=============================================*
| Total Model Continuity Error                |
| Error in Continuity, Percent =       0.0006 |
| Error in Continuity, ft^3    =      214.247 |
| + Error means a continuity loss, - a gain   |
*=============================================*

#####################################################
# Table E22. Numerical Model judgement section    #
#####################################################

Your overall error was                                    0.0006 percent


Worst nodal error was in node 6832             with       0.0259 percent


Of the total inflow this loss was                         0.0518 percent


Your overall continuity error was                Excellent


                                                Excellent Efficiency
```

```
Efficiency of the simulation                      2.18


Most Number of Non Convergences at one Node       2.


Total Number Non Convergences at all Nodes       11.


Total Number of Nodes with Non Convergences      10.



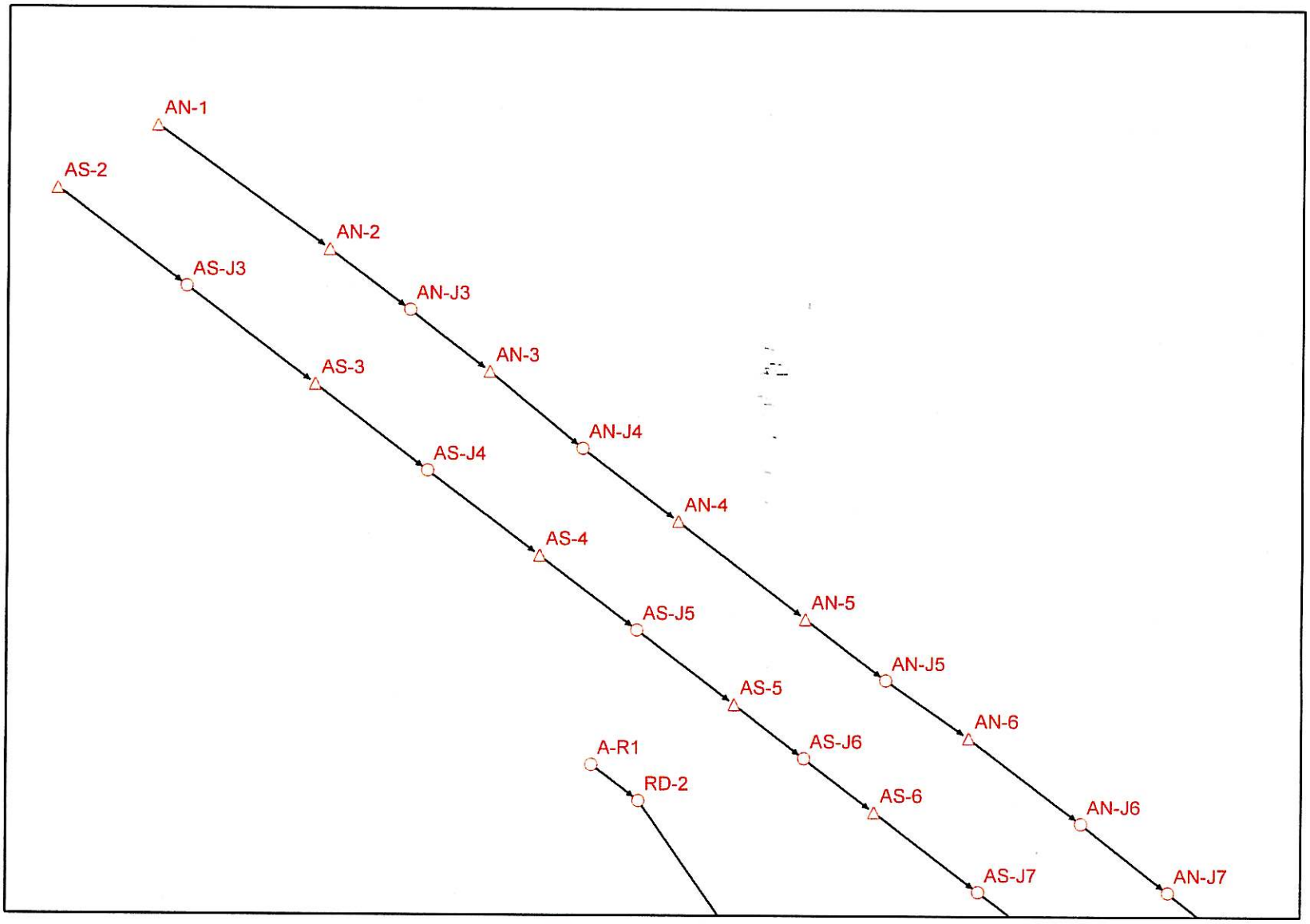
===> Hydraulic model simulation ended normally.
===> XP-SWMM Simulation ended normally.


===> Your input file was named  : P:\PROJECTS\290PMC\PhaseII\DRA\Models\SWMM\Segment C\E127Existing100.DAT
===> Your output file was named : P:\PROJECTS\290PMC\PhaseII\DRA\Models\SWMM\Segment C\E127Existing100.out

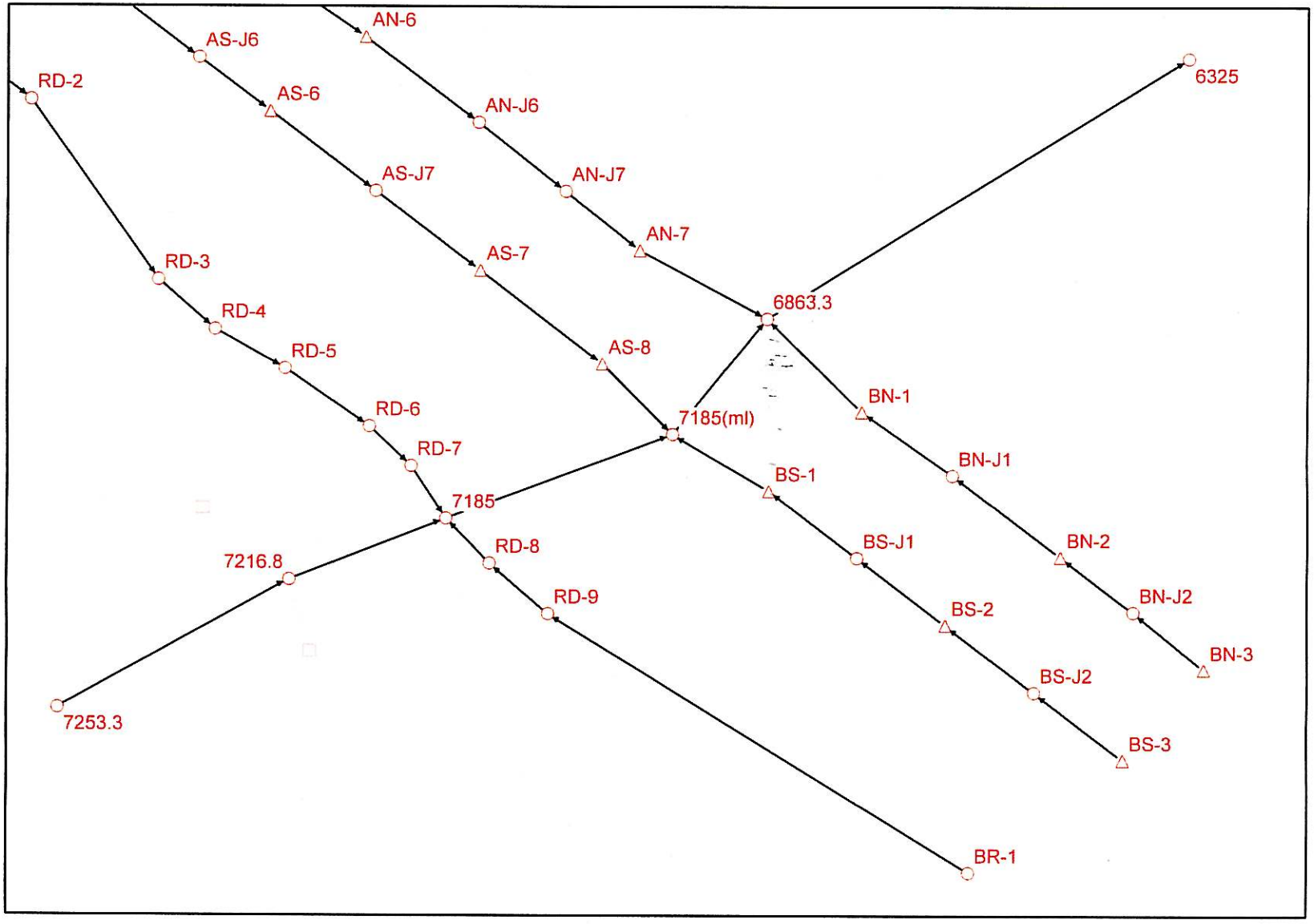
*============================================================*
|             SWMM Simulation Date and Time Summary          |
*============================================================*
| Starting Date... August     15, 2009  Time...   15:14:33:71  |
|   Ending Date... August     15, 2009  Time...   15:19: 9:85  |
|  Elapsed Time...    4.60233 minutes or    276.14000 seconds  |
*============================================================*
```

OUTFALL 7
SWMM OUTPUT
100 YR- MITIGATED CONDITIONS

OUTFALL 7
MITIGATED CONDITIONS SWMM LAYOUT



OUTFALL 7
MITIGATED CONDITIONS SWMM LAYOUT



```
 Current Directory:   C:\XPS\xpstorm
 Engine Name: C:\XPS\xpstorm\SWMMEN~1.EXE


 Input File : \PROJECTS\290PMC\PhaseII\DRA\Models\SWMM\Segment C\E127MIT_100.XP

          *================================================*
          |                     xpswmm                     |
          |     Storm and Wastewater Management Model      |
          |           Interface Version: 10.6              |
          |              Engine Version: 10.54             |
          |================================================|
          |                                                |
          |                Developed by                    |
          |                                                |
          |                XP Software                     |
          |                                                |
          |================================================|
          |      XP Software       November, 2006          |
          |       Data File Version --->    11.9           |
          |       Serial Number: 66-1060-0635              |
          |             Scientech Engineers                |
          *================================================*

Engine Name: C:\XPS\xpstorm\SWMMEN~1.EXE


*====================================================*
|       Input and Output file names by Layer         |
*====================================================*

 Input File  to Layer #     1 JOT.US
 Output File to Layer #     1 JOT.US

*============================================================*
|   Special command line arguments in XP-SWMM2000. This     |
|   now includes program defaults. $Keywords are the program|
|   defaults.  Other Keywords are from the SWMMCOM.CFG file.|
|   or the command line or any cfg file on the command line.|
|   Examples include these in the file xpswm.bat under the   |
|   section :solve or in the windows version XPSWMM32 in the|
|   file solve.bat                                           |
|                                                            |
|   Note: the cfg file should be in the subdirectory swmxp   |
|         or defined by the set variable in the xpswm.bat    |
|         file.  Some examples of the command lines possible|
|         are shown below:                                   |
|                                                            |
|   swmmd swmmcom.cfg                                        |
|   swmmd my.cfg                                             |
|   swmmd nokeys nconv5 perv extranwq                        |
*============================================================*

 $powerstation                        0.0000         1         2
 $perv                                0.0000         0         4
 $oldegg                              0.0000         0         7
 $as                                  0.0000         0        11
 $noflat                              0.0000         0        21
 $oldomega                            0.0000         0        24
 $oldvol                              0.0000         1        28
 $implicit                            0.0000         1        29
 $oldhot                              0.0000         1        31
 $oldscs                              0.0000         0        33
 $flood                               0.0000         1        40
 $nokeys                              0.0000         0        42
 $pzero                               0.0000         0        55
 $oldvol2                             0.0000         2        59
 $storage2                            0.0000         3        62
 $oldhot1                             0.0000         1        63
 $pumpwt                              0.0000         1        70
 $ecloss                              0.0000         1        77
 $exout                               0.0000         0        97
 SPATIAL=0.55                         0.5500         5       124
 $djref = -1.0                       -0.1000         3       143
 $weirlen = 50                       50.0000         1       153
 $oldbnd                              0.0000         1       154
 $nogrelev                            0.0000         1       161
 $ncmid                               0.0000         0       164
 $new_nl_97                           0.0000         2       290
 $best97                              0.0000         1       294
 $newbound                            0.0000         1       295
 $q_tol = 0.01                        0.0001         1       316
 $new_storage                         0.0000         1       322
 $old_iteration                       0.0000         1       333
 MINLEN=1.0                           1.0000         1       346
 $review_elevation                    0.0000         1       383
 $use_half_volume                     0.0000         1       385
 $min_ts = 0.5                        0.5000         1       407
 $design_restart = on                 0.0000         1       412
 $zero_value=1.e-05                   0.0000         1       415
 $relax_depth = on                    0.0000         1       427
 $saveallpts = on                     0.0000         1       434

 *============================================================*
 | Parameter Values on the Tapes Common Block.These are the |
 | values read from the data file and dynamically allocated |
 | by the model for this simulation.                        |
 *============================================================*

  Number of Subcatchments in the Runoff Block (NW)....     0
  Number of Channel/Pipes in the Runoff Block (NG)....     0
  Runoff Water quality constituents (NRQ).............     0
  Runoff Land Uses per Subcatchment (NLU).............     0
  Number of Elements in the Transport Block (NET).....     0
  Number of Storage Junctions in Transport (NTSE).....     0
  Number of Input Hydrographs in Transport (NTH)......     0
  Number of Elements in the Extran Block (NEE)........    50
  Number of Groundwater Subcatchments in Runoff (NGW).     0
  Number of Interface locations for all Blocks (NIE)..    50
  Number of Pumps in Extran (NEP).....................     0
  Number of Orifices in Extran (NEO)..................     0
  Number of Tide Gates/Free Outfalls in Extran (NTG)..     1
  Number of Extran Weirs (NEW)........................     0
  Number of scs hydrograph points.....................     1
  Number of Extran printout locations (NPO)...........     0
  Number of Tide elements in Extran (NTE).............     1
  Number of Natural channels (NNC)....................     5
  Number of Storage junctions in Extran (NVSE)........    20
  Number of Time history data points in Extran(NTVAL).     5
  Number of Variable storage elements in Extran (NVST)     7
  Number of Input Hydrographs in Extran (NEH).........    23
  Number of Particle sizes in Transport Block (NPS)...     0
  Number of User defined conduits (NHW)...............    50
  Number of Connecting conduits in Extran (NECC)......    20
  Number of Upstream elements in Transport (NTCC).....    10
  Number of Storage/treatment plants (NSTU)...........     1
```

```
 Number of Values for R1 lines in Transport (NR1)....     0
 Number of Nodes to be allowed for (NNOD)............    50
 Number of Plugs in a Storage Treatment Unit.........     1


####################################################
#    Entry made to the HYDRAULIC Layer(Block) of SWMM #
#    Last Updated June,2005 by XP Software           #

    US 290/Hempstead Hwy Corridor
    Drainage Impact Study - Existing Conditions Sys GH- /// 100-Year Freque


*============================================================*
|        HYDRAULICS TABLES IN THE OUTPUT FILE                |
|  These are the more important tables in the output file.   |
|  You can use your editor to find the table numbers,        |
|  for example: search for Table E20 to check continuity.    |
|  This output file can be imported into a Word Processor    |
|  and printed on US letter or A4 paper using portrait       |
|  mode, courier font, a size of 8 pt. and margins of 0.75   |
|                                                            |
| Table E1   - Basic Conduit Data                            |
| Table E2   - Conduit Factor Data                           |
| Table E3a  - Junction Data                                 |
| Table E3b  - Junction Data                                 |
| Table E4   - Conduit Connectivity Data                     |
| Table E4a  - Dry Weather Flow Data                         |
| Table E4b  - Real Time Control Data                        |
| Table E5   - Junction Time Step Limitation Summary         |
| Table E5a  - Conduit Explicit Condition Summary            |
| Table E6   - Final Model Condition                         |
| Table E7   - Iteration Summary                             |
| Table E8   - Junction Time Step Limitation Summary         |
| Table E9   - Junction  Summary  Statistics                 |
| Table E10  - Conduit   Summary  Statistics                 |
| Table E11  - Area assumptions used in the analysis         |
| Table E12  - Mean conduit information                      |
| Table E13  - Channel losses(H) and culvert info            |
| Table E13a - Culvert Analysis Classification               |
| Table E14  - Natural Channel Overbank Flow Information     |
| Table E14a - Natural Channel Encroachment Information      |
| Table E14b - Floodplain Mapping                            |
| Table E15  - Spreadsheet Info List                         |
| Table E15a - Spreadsheet Reach List                        |
| Table E16  - New Conduit Output Section                    |
| Table E17  - Pump Operation                                |
| Table E18  - Junction Continuity Error                     |
| Table E19  - Junction Inflow & Outflow Listing             |
| Table E20  - Junction Flooding and Volume List             |
| Table E21  - Continuity balance at simulation end          |
| Table E22  - Model Judgement Section                       |
*============================================================*

Time Control from Hydraulics Job Control
Year.........    2007 Month.......       1
Day..........       1 Hour........       0
Minute.......       0 Second......       0


Control information for simulation
----------------------------------

Integration cycles..................    129600
Length of integration step is......      1.00 seconds
Simulation length...................     36.00 hours
Do not create equiv. pipes(NEQUAL)..         0
Use U.S. customary units for I/O...          0
Printing starts in cycle...........          1
Intermediate printout intervals of.       500 cycles
Intermediate printout intervals of.      8.33 minutes
Summary printout intervals of......       500 cycles
Summary printout time interval of..      8.33 minutes
Hot start file parameter (REDO)....          0
Initial time........................      0.00 hours

Iteration variables: Flow Tolerance.   0.00010
                     Head Tolerance.   0.00010
    Minimum depth (m or ft).........   0.00001
    Underrelaxation parameter.......   0.85000
    Time weighting parameter........   1.00000
    Conduit roughness factor........   1.00000
    Flow adjustment factor..........   1.00000
    Initial Condition Smoothing.....          0
    Courant Time Step Factor........   1.00000
    Default Expansion/Contraction K.   0.00000
    Default Entrance/Exit K.........   0.00000
    Routing Method..................   Dynamic Wave
Default surface area of junctions...     12.57 square feet.
Minimum Junction/Conduit Depth......   0.00001 feet.
Ponding Area Coefficient............   5000.00
Ponding Area Exponent...............    1.0000
Minimum Orifice Length..............    500.00 feet.
NJSW input hydrograph junctions.....    23
     or user defined hydrographs....

        Natural Cross-Section information for Channel Link587
        =====================================================
         Cross-Section ID (from X1 card) :     1.0 Channel sequence number :     1

  Left Overbank Length   :     36.5 ft               Maximum Elevation        :   112.56 ft.
  Main Channel Length    :     36.5 ft               Maximum Depth            :    13.09 ft.
  Right Overbank Length  :     36.5 ft               Maximum Section Area     : 8917.915 ft^2
                                                     Maximum hydraulic radius :     2.87 ft.
  Manning N :      0.080  to Station        4981.1    Max topwidth             :  3104.10 ft.
    "    "  :      0.050  in main Channel            Maximum Wetted Perimeter : 3.11E+03 ft
    "    "  :      0.080  Beyond station    5022.4    Max left bank area       :  3214.71 ft^2
                                                     Max right bank area      :  5364.06 ft^2
  Allowable Encroachment Depth :    0.00 ft          Max center channel area  : 339.1433 ft^2

        Natural Cross-Section information for Channel Link588
        =====================================================
         Cross-Section ID (from X1 card) :     2.0 Channel sequence number :     2

  Left Overbank Length   :     70.0 ft               Maximum Elevation        :   112.52 ft.
  Main Channel Length    :     70.0 ft               Maximum Depth            :    14.07 ft.
  Right Overbank Length  :     70.0 ft               Maximum Section Area     : 8633.354 ft^2
                                                     Maximum hydraulic radius :     2.77 ft.
  Manning N :      0.080  to Station        4942.9    Max topwidth             :  3115.70 ft.
    "    "  :      0.050  in main Channel            Maximum Wetted Perimeter : 3.12E+03 ft
    "    "  :      0.080  Beyond station    5057.6    Max left bank area       :  2836.51 ft^2
                                                     Max right bank area      :  4849.36 ft^2
  Allowable Encroachment Depth :    0.00 ft          Max center channel area  : 947.4820 ft^2

        Natural Cross-Section information for Channel Link590
        =====================================================
         Cross-Section ID (from X1 card) :     3.0 Channel sequence number :     3
```

```
  Left Overbank Length   :    561.1 ft               Maximum Elevation        :   112.03 ft.
  Main Channel Length    :    538.3 ft               Maximum Depth            :    13.26 ft.
  Right Overbank Length  :    520.9 ft               Maximum Section Area     : 5145.597 ft^2
                                                     Maximum hydraulic radius :     2.47 ft.
  Manning N :      0.080  to Station        4955.9    Max topwidth             :  2082.90 ft.
    "    "  :      0.050  in main Channel             Maximum Wetted Perimeter : 2.09E+03 ft
    "    "  :      0.080  Beyond station    5055.9    Max left bank area       :  3111.00 ft^2
                                                     Max right bank area      :  1303.14 ft^2
  Allowable Encroachment Depth :    0.00 ft          Max center channel area  : 731.4570 ft^2

        Natural Cross-Section information for Channel Link655
        =====================================================
         Cross-Section ID (from X1 card) :     4.0 Channel sequence number :     4

  Left Overbank Length   :     31.8 ft               Maximum Elevation        :   112.53 ft.
  Main Channel Length    :     31.8 ft               Maximum Depth            :    13.09 ft.
  Right Overbank Length  :     31.8 ft               Maximum Section Area     : 8917.915 ft^2
                                                     Maximum hydraulic radius :     2.87 ft.
  Manning N :      0.080  to Station        4981.1    Max topwidth             :  3104.10 ft.
    "    "  :      0.050  in main Channel             Maximum Wetted Perimeter : 3.11E+03 ft
    "    "  :      0.080  Beyond station    5022.4    Max left bank area       :  3214.71 ft^2
                                                     Max right bank area      :  5364.06 ft^2
  Allowable Encroachment Depth :    0.00 ft          Max center channel area  : 339.1433 ft^2

        Natural Cross-Section information for Channel Link665
        =====================================================
         Cross-Section ID (from X1 card) :     5.0 Channel sequence number :     5

  Left Overbank Length   :    251.7 ft               Maximum Elevation        :   112.52 ft.
  Main Channel Length    :    251.7 ft               Maximum Depth            :    14.07 ft.
  Right Overbank Length  :    251.7 ft               Maximum Section Area     : 8633.354 ft^2
                                                     Maximum hydraulic radius :     2.77 ft.
  Manning N :      0.080  to Station        4942.9    Max topwidth             :  3115.70 ft.
    "    "  :      0.050  in main Channel             Maximum Wetted Perimeter : 3.12E+03 ft
    "    "  :      0.080  Beyond station    5057.6    Max left bank area       :  2836.51 ft^2
                                                     Max right bank area      :  4849.36 ft^2
  Allowable Encroachment Depth :    0.00 ft          Max center channel area  : 947.4820 ft^2

*=================================================*
|          Table E1 - Conduit Data                |
*=================================================*
```

Inp Num	Conduit Name	Length (ft)	Conduit Class	Area (ft^2)	Manning Coef.	Max Width (ft)	Depth (ft)	Trapezoid Side Slopes	
1	Link587	36.5000	Natural	8917.9154	0.0500	3104.1000	13.0900		
2	Link588	70.0000	Natural	8633.3540	0.0500	3115.7000	14.0700		
3	Link590	538.3000	Natural	5145.5970	0.0500	2082.9000	13.2600		
4	Link655	31.8000	Natural	8917.9153	0.0500	3104.1000	13.0900		
5	Link665	251.7000	Natural	8633.3540	0.0500	3115.7000	14.0700		
6	L_AN15	318.9240	Rectangle	40.0000	0.0130	8.0000	5.0000		
7	L_BN14	361.5160	Rectangle	16.0000	0.0130	4.0000	4.0000		
8	L_AN14	235.3920	Rectangle	40.0000	0.0130	8.0000	5.0000		
9	L_BN1	273.8630	Rectangle	32.0000	0.0130	8.0000	4.0000		
10	L_AN13	274.8860	Rectangle	40.0000	0.0130	8.0000	5.0000		
11	L_BN2	335.3480	Rectangle	32.0000	0.0130	8.0000	4.0000		
12	L_AN12	350.0000	Rectangle	40.0000	0.0130	8.0000	5.0000		
13	L_BN3	224.6520	Rectangle	28.0000	0.0130	7.0000	4.0000		
14	L_AN11	251.3000	Rectangle	30.0000	0.0130	6.0000	5.0000		
15	L_BN4	225.3320	Rectangle	28.0000	0.0130	7.0000	4.0000		
16	L_AN10	250.5950	Rectangle	30.0000	0.0130	6.0000	5.0000		
17	L_AN9	399.5680	Rectangle	28.0000	0.0130	7.0000	4.0000		
18	L_AN8	299.8380	Rectangle	28.0000	0.0130	7.0000	4.0000		
19	L_AN7	300.1580	Rectangle	28.0000	0.0130	7.0000	4.0000		
20	L_AN6	249.8170	Rectangle	24.0000	0.0130	6.0000	4.0000		
21	L_AN5	250.2820	Rectangle	24.0000	0.0130	6.0000	4.0000		
22	L_AS16	230.5060	Rectangle	24.0000	0.0130	6.0000	4.0000		
23	L_BS11	289.4940	Circular	12.5664	0.0130	4.0000	4.0000		
24	L_AS15	380.0000	Rectangle	24.0000	0.0130	6.0000	4.0000		
25	L_BS1	275.0000	Circular	9.6211	0.0130	3.5000	3.5000		
26	L_AS14	325.0000	Rectangle	24.0000	0.0130	6.0000	4.0000		
27	L_BS2	275.0000	Circular	9.6211	0.0130	3.5000	3.5000		
28	L_AS13	325.0000	Rectangle	24.0000	0.0130	6.0000	4.0000		
29	L_BS3	275.0000	Circular	7.0686	0.0130	3.0000	3.0000		
30	L_AS12	220.0000	Rectangle	20.0000	0.0130	5.0000	4.0000		
31	L_BS4	275.0000	Circular	7.0686	0.0130	3.0000	3.0000		
32	L_AS11	220.0000	Rectangle	20.0000	0.0130	5.0000	4.0000		
33	L_AS10	305.0000	Rectangle	20.0000	0.0130	5.0000	4.0000		
34	L_AS9	305.0000	Rectangle	20.0000	0.0130	5.0000	4.0000		
35	L_AS8	350.0000	Rectangle	16.0000	0.0130	4.0000	4.0000		
36	L_AS7	350.0000	Rectangle	16.0000	0.0130	4.0000	4.0000		
37	L_AS6	400.0000	Rectangle	16.0000	0.0130	4.0000	4.0000		
38	L_AS5	400.0000	Rectangle	16.0000	0.0130	4.0000	4.0000		
39	L-RD-1	1144.0000	Trapezoid	56.0000	0.0350	2.0000	4.0000	3.0000	3.0000
40	L-RD-2	508.0000	Trapezoid	56.0000	0.0350	2.0000	4.0000	3.0000	3.0000
41	L-RD-5	1225.0000	Trapezoid	56.0000	0.0350	2.0000	4.0000	3.0000	3.0000
42	L-RD-6	1054.0000	Trapezoid	56.0000	0.0350	2.0000	4.0000	3.0000	3.0000
43	L-RD-7	510.0000	Trapezoid	56.0000	0.0350	2.0000	4.0000	3.0000	3.0000
44	Link649	636.0000	Circular	12.5664	0.0350	4.0000	4.0000		
45	L-RD-3	60.0000	Circular	4.9087	0.0130	2.5000	2.5000		
46	L-RD-4	613.0000	Trapezoid	56.0000	0.0350	2.0000	4.0000	3.0000	3.0000
47	Link652	1352.0000	Circular	3.1416	0.0130	2.0000	2.0000		
48	Link653	1087.0000	Circular	3.1416	0.0130	2.0000	2.0000		
49	L_AN4	696.0000	Rectangle	16.0000	0.0130	4.0000	4.0000		

```
Total length of all conduits ....     19614.7710 feet

*=================================================*
| If there are messages about (sqrt(g*d)*dt/dx), or |
| the sqrt(wave celerity)*time step/conduit length  |
| in the output file all it means is that the       |
| program will lower the internal time step to      |
| satisfy this condition (explicit condition).      |
| You control the actual internal time step by      |
| using the minimum courant time step factor in the |
| HYDRAULICS job control.  The message put in words |
| states that the smallest conduit with the fastest |
| velocity will control the time step selection.    |
| You have further control by using the modify      |
| conduit option in the HYDRAULICS Job Control.     |
*=================================================*
```

Conduit Name	Courant Ratio
Link587	0.26
Link588	0.13
Link590	0.02
Link655	0.30
Link665	0.04
L_AN15	0.04
L_BN14	0.03
L_AN14	0.05
L_BN1	0.04
L_AN13	0.05
L_BN2	0.03
L_AN12	0.04

L_BN3	0.05
L_AN11	0.05
L_BN4	0.05
L_AN10	0.05
L_AN9	0.03
L_AN8	0.04
L_AN7	0.04
L_AN6	0.05
L_AN5	0.05
L_AS16	0.05
L_BS11	0.04
L_AS15	0.03
L_BS1	0.04
L_AS14	0.03
L_BS2	0.04
L_AS13	0.03
L_BS3	0.04
L_AS12	0.05
L_BS4	0.04
L_AS11	0.05
L_AS10	0.04
L_AS9	0.04
L_AS8	0.03
L_AS7	0.03
L_AS6	0.03
L_AS5	0.03
L-RD-1	0.01
L-RD-2	0.02
L-RD-5	0.01
L-RD-6	0.01
L-RD-7	0.02
Link649	0.02
L-RD-3	0.15
L-RD-4	0.01
Link652	0.01
Link653	0.01
L_AN4	0.02

==================
| Conduit Volume |
==================

Full pipe or full open conduit volume
Input full depth volume..... 6.6946E+06 cubic feet

==
| Table E3a - Junction Data |
==

Inp Num	Junction Name	Ground Elevation	Crown Elevation	Invert Elevation	Qinst cfs	Initial Depth-ft	Interface Flow (%)
1	6863.3	112.5300	112.5200	98.4500	0.0000	0.0000	100.0000
2	7253.3	112.5600	112.5600	99.4700	0.0000	0.0000	100.0000
3	7185	112.5300	112.5200	98.4500	0.0000	0.0000	100.0000
4	6325	111.0900	111.0900	97.8300	0.0000	0.0000	100.0000
5	7216.8	112.5300	112.5300	99.4400	0.0000	0.0000	100.0000
6	7185(ml)	112.5300	112.5200	98.4500	0.0000	0.0000	100.0000
7	AN-7	108.5500	108.5500	100.3190	0.0000	0.0000	100.0000
8	BN-1	107.8200	107.8200	99.3620	0.0000	0.0000	100.0000
9	AN-J7	109.1800	109.1800	100.5540	0.0000	0.0000	100.0000
10	BN-J1	108.5200	108.5200	99.6350	0.0000	0.0000	100.0000
11	AN-J6	109.9600	109.9600	100.8290	0.0000	0.0000	100.0000
12	BN-2	107.5200	107.5200	99.9710	0.0000	0.0000	100.0000
13	AN-6	109.3800	109.3800	101.1790	0.0000	0.0000	100.0000
14	BN-J2	107.5100	107.5100	100.1950	0.0000	0.0000	100.0000
15	AN-J5	110.3600	110.3600	101.4310	0.0000	0.0000	100.0000
16	BN-3	106.1700	106.1700	100.4200	0.0000	0.0000	100.0000
17	AN-5	110.3600	110.3600	101.6810	0.0000	0.0000	100.0000
18	AN-4	111.0400	111.0400	102.0810	0.0000	0.0000	100.0000
19	AN-J4	111.9400	111.9400	102.3810	0.0000	0.0000	100.0000
20	AN-3	111.6400	111.6400	102.6810	0.0000	0.0000	100.0000
21	AN-J3	112.3900	112.3900	102.9300	0.0000	0.0000	100.0000
22	AN-2	111.9400	111.9400	103.1810	0.0000	0.0000	100.0000
23	AS-8	110.0000	110.0000	100.2310	0.0000	0.0000	100.0000
24	BS-1	109.1900	109.1900	100.2890	0.0000	0.0000	100.0000
25	AS-7	110.0000	110.0000	100.6110	0.0000	0.0000	100.0000
26	BS-J1	109.4500	109.4500	100.5640	0.0000	0.0000	100.0000
27	AS-J7	111.6200	111.6200	100.9360	0.0000	0.0000	100.0000
28	BS-2	108.9000	108.9000	100.8390	0.0000	0.0000	100.0000
29	AS-6	111.6500	111.6500	101.2610	0.0000	0.0000	100.0000
30	BS-J2	109.2700	109.2700	101.1140	0.0000	0.0000	100.0000
31	AS-J6	112.7500	112.7500	101.4810	0.0000	0.0000	100.0000
32	BS-3	108.4500	108.4500	101.3890	0.0000	0.0000	100.0000
33	AS-5	111.9700	111.9700	101.7010	0.0000	0.0000	100.0000
34	AS-J5	113.0100	113.0100	102.0060	0.0000	0.0000	100.0000
35	AS-4	112.7300	112.7300	102.3110	0.0000	0.0000	100.0000
36	AS-J4	113.7800	113.7800	102.6610	0.0000	0.0000	100.0000
37	AS-3	113.5300	113.5300	103.0110	0.0000	0.0000	100.0000
38	AS-J3	115.1300	115.1300	103.4110	0.0000	0.0000	100.0000
39	AS-2	114.6300	114.6300	103.8110	0.0000	0.0000	100.0000
40	A-R1	109.5000	109.5000	105.4400	0.0000	0.0000	100.0000
41	RD-2	109.5000	109.5000	104.2960	0.0000	0.0000	100.0000
42	RD-5	109.5000	109.5000	103.1150	0.0000	0.0000	100.0000
43	RD-6	109.5000	109.5000	101.8900	0.0000	0.0000	100.0000
44	RD-7	109.5000	109.5000	100.8360	0.0000	0.0000	100.0000
45	RD-8	109.5000	109.5000	100.9360	0.0000	0.0000	100.0000
46	RD-3	109.5000	109.5000	103.7880	0.0000	0.0000	100.0000
47	RD-4	109.5000	109.5000	103.7280	0.0000	0.0000	100.0000
48	RD-9	109.5000	109.5000	102.2880	0.0000	0.0000	100.0000
49	BR-1	109.5000	109.5000	103.3750	0.0000	0.0000	100.0000
50	AN-1	113.0000	107.8800	103.8800	0.0000	0.0000	100.0000

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| Table E3b - Junction Data |
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Inp Num	Junction Name	X Coord.	Y Coord.	Type of Manhole	Type of Inlet	Maximum Capacity	Pavement Shape	Pavement Slope
1	6863.3	3.052311E+06	13.88820E+06	No P	Normal		0	0.0000
2	7253.3	3.050564E+06	13.88723E+06	No P	Normal		0	0.0000
3	7185	3.051517E+06	13.88770E+06	No P	Normal		0	0.0000
4	6325	3.053349E+06	13.88884E+06	No P	Normal		0	0.0000
5	7216.8	3.051131E+06	13.88755E+06	No P	Normal		0	0.0000
6	7185(ml)	3.052076E+06	13.88791E+06	No P	Normal		0	0.0000
7	AN-7	3.051994E+06	13.88836E+06	F	Normal		0	0.0000
8	BN-1	3.052545E+06	13.88797E+06	F	Normal		0	0.0000
9	AN-J7	3.051810E+06	13.88851E+06	F	Normal		0	0.0000
10	BN-J1	3.052770E+06	13.88781E+06	F	Normal		0	0.0000
11	AN-J6	3.051594E+06	13.88868E+06	F	Normal		0	0.0000
12	BN-2	3.053037E+06	13.88761E+06	F	Normal		0	0.0000
13	AN-6	3.051316E+06	13.88889E+06	F	Normal		0	0.0000
14	BN-J2	3.053215E+06	13.88747E+06	F	Normal		0	0.0000
15	AN-J5	3.051109E+06	13.88904E+06	F	Normal		0	0.0000
16	BN-3	3.053390E+06	13.88733E+06	F	Normal		0	0.0000

17	AN-5	3.050909E+06	13.88919E+06		F	Normal	0	0.0000
18	AN-4	3.050592E+06	13.88943E+06		F	Normal	0	0.0000
19	AN-J4	3.050353E+06	13.88961E+06		F	Normal	0	0.0000
20	AN-3	3.050121E+06	13.88980E+06		F	Normal	0	0.0000
21	AN-J3	3.049923E+06	13.88995E+06		F	Normal	0	0.0000
22	AN-2	3.049724E+06	13.89010E+06		F	Normal	0	0.0000
23	AS-8	3.051901E+06	13.88808E+06		F	Normal	0	0.0000
24	BS-1	3.052315E+06	13.88777E+06		F	Normal	0	0.0000
25	AS-7	3.051599E+06	13.88831E+06		F	Normal	0	0.0000
26	BS-J1	3.052534E+06	13.88760E+06		F	Normal	0	0.0000
27	AS-J7	3.051341E+06	13.88851E+06		F	Normal	0	0.0000
28	BS-2	3.052753E+06	13.88744E+06		F	Normal	0	0.0000
29	AS-6	3.051082E+06	13.88871E+06		F	Normal	0	0.0000
30	BS-J2	3.052972E+06	13.88727E+06		F	Normal	0	0.0000
31	AS-J6	3.050907E+06	13.88884E+06		F	Normal	0	0.0000
32	BS-3	3.053190E+06	13.88710E+06		F	Normal	0	0.0000
33	AS-5	3.050732E+06	13.88898E+06		F	Normal	0	0.0000
34	AS-J5	3.050489E+06	13.88916E+06		F	Normal	0	0.0000
35	AS-4	3.050247E+06	13.88934E+06		F	Normal	0	0.0000
36	AS-J4	3.049968E+06	13.88956E+06		F	Normal	0	0.0000
37	AS-3	3.049690E+06	13.88977E+06		F	Normal	0	0.0000
38	AS-J3	3.049371E+06	13.89001E+06		F	Normal	0	0.0000
39	AS-2	3.049053E+06	13.89025E+06		F	Normal	0	0.0000
40	A-R1	3.050377E+06	13.88883E+06		F	Normal	0	0.0000
41	RD-2	3.050495E+06	13.88874E+06		F	Normal	0	0.0000
42	RD-5	3.051119E+06	13.88807E+06		F	Normal	0	0.0000
43	RD-6	3.051327E+06	13.88793E+06		F	Normal	0	0.0000
44	RD-7	3.051430E+06	13.88783E+06		F	Normal	0	0.0000
45	RD-8	3.051624E+06	13.88759E+06		F	Normal	0	0.0000
46	RD-3	3.050808E+06	13.88829E+06		F	Normal	0	0.0000
47	RD-4	3.050947E+06	13.88817E+06		F	Normal	0	0.0000
48	RD-9	3.051769E+06	13.88746E+06		F	Normal	0	0.0000
49	BR-1	3.052811E+06	13.88682E+06		F	Normal	0	0.0000
50	AN-1	3.049298E+06	13.89041E+06	No	P	Normal	0	0.0000

Table E4 - Conduit Connectivity

Input Number	Conduit Name	Upstream Node	Downstream Node	Upstream Elevation	Downstream Elevation	
1	Link587	7253.3	7216.8	99.4700	99.4400	No Design
2	Link588	7185	7185(ml)	98.4500	98.4500	No Design
3	Link590	6863.3	6325	98.4500	97.8300	No Design
4	Link655	7216.8	7185	99.4400	98.4500	No Design
5	Link665	7185(ml)	6863.3	98.4500	98.4500	No Design
6	L_AN15	AN-7	6863.3	100.3190	100.0000	No Design
7	L_BN14	BN-1	6863.3	99.3620	99.0000	No Design
8	L_AN14	AN-J7	AN-7	100.5540	100.3190	No Design
9	L_BN1	BN-J1	BN-1	99.6350	99.3620	No Design
10	L_AN13	AN-J6	AN-J7	100.8290	100.5540	No Design
11	L_BN2	BN-2	BN-J1	99.9710	99.6350	No Design
12	L_AN12	AN-6	AN-J6	101.1790	100.8290	No Design
13	L_BN3	BN-J2	BN-2	100.1950	99.9710	No Design
14	L_AN11	AN-J5	AN-6	101.4310	101.1790	No Design
15	L_BN4	BN-3	BN-J2	100.4200	100.1950	No Design
16	L_AN10	AN-5	AN-J5	101.6810	101.4310	No Design
17	L_AN9	AN-4	AN-5	102.0810	101.6810	No Design
18	L_AN8	AN-J4	AN-4	102.3810	102.0810	No Design
19	L_AN7	AN-3	AN-J4	102.6810	102.3810	No Design
20	L_AN6	AN-J3	AN-3	102.9300	102.6810	No Design
21	L_AN5	AN-2	AN-J3	103.1810	102.9300	No Design
22	L_AS16	AS-8	7185(ml)	100.2310	100.0000	No Design
23	L_BS11	BS-1	7185(ml)	100.2890	100.0000	No Design
24	L_AS15	AS-7	AS-8	100.6110	100.2310	No Design
25	L_BS1	BS-J1	BS-1	100.5640	100.2890	No Design
26	L_AS14	AS-J7	AS-7	100.9360	100.6110	No Design
27	L_BS2	BS-2	BS-J1	100.8390	100.5640	No Design
28	L_AS13	AS-6	AS-J7	101.2610	100.9360	No Design
29	L_BS3	BS-J2	BS-2	101.1140	100.8390	No Design
30	L_AS12	AS-J6	AS-6	101.4810	101.2610	No Design
31	L_BS4	BS-3	BS-J2	101.3890	101.1140	No Design
32	L_AS11	AS-5	AS-J6	101.7010	101.4810	No Design
33	L_AS10	AS-J5	AS-5	102.0060	101.7010	No Design
34	L_AS9	AS-4	AS-J5	102.3110	102.0060	No Design
35	L_AS8	AS-J4	AS-4	102.6610	102.3110	No Design
36	L_AS7	AS-3	AS-J4	103.0110	102.6610	No Design
37	L_AS6	AS-J3	AS-3	103.4110	103.0110	No Design
38	L_AS5	AS-2	AS-J3	103.8110	103.4110	No Design
39	L-RD-1	A-R1	RD-2	105.4400	104.2960	No Design
40	L-RD-2	RD-2	RD-3	104.2960	103.7880	No Design
41	L-RD-5	RD-5	RD-6	103.1150	101.8900	No Design
42	L-RD-6	RD-6	RD-7	101.8900	100.8360	No Design
43	L-RD-7	RD-7	7185	100.8360	100.3260	No Design
44	Link649	RD-8	7185	100.9360	100.3000	No Design
45	L-RD-3	RD-3	RD-4	103.7880	103.7280	No Design
46	L-RD-4	RD-4	RD-5	103.7280	103.1150	No Design
47	Link652	RD-9	RD-8	102.2880	100.9360	No Design
48	Link653	BR-1	RD-9	103.3750	102.2880	No Design
49	L_AN4	AN-1	AN-2	103.8800	103.1810	No Design

Storage Junction Data

STORAGE JUNCTION NUMBER OR NAME	JUNCTION TYPE	MAXIMUM OR CONSTANT SURFACE AREA (FT2)	PEAK OR CONSTANT VOLUME (CUBIC FEET)	CROWN ELEVATION (FT)	DEPTH STARTS FROM
AN-7	Stage/Area	16727.0400	127908.5600	108.5500	Spill Crest
BN-1	Stage/Area	16727.0400	131705.5981	107.8200	Spill Crest
BN-2	Stage/Area	16727.0400	116500.7188	107.5200	Spill Crest
AN-6	Stage/Area	16727.0400	127406.7488	109.3800	Spill Crest
BN-3	Stage/Area	16727.0400	86408.7738	106.1700	Spill Crest
AN-5	Stage/Area	16727.0400	135402.2740	110.3600	Spill Crest
AN-4	Stage/Area	16727.0400	140085.8452	111.0400	Spill Crest
AN-3	Stage/Area	16727.0400	140085.8452	111.6400	Spill Crest
AN-2	Stage/Area	16727.0400	136740.4372	111.9400	Spill Crest
AS-8	Stage/Area	16727.0400	153634.7476	110.0000	Spill Crest
BS-1	Stage/Area	16727.0400	139115.6768	109.1900	Spill Crest
AS-7	Stage/Area	16727.0400	147278.4724	110.0000	Spill Crest
BS-2	Stage/Area	16727.0400	125064.9632	108.9000	Spill Crest
AS-6	Stage/Area	16727.0400	164005.5124	111.6500	Spill Crest
BS-3	Stage/Area	16727.0400	108337.9232	108.4500	Spill Crest
AS-5	Stage/Area	16727.0400	161998.2676	111.9700	Spill Crest
AS-4	Stage/Area	16727.0400	164507.3236	112.7300	Spill Crest
AS-3	Stage/Area	16727.0400	166180.0276	113.5300	Spill Crest
AS-2	Stage/Area	16727.0400	171198.1396	114.6300	Spill Crest
AN-1	Stage/Area	16727.0400	142778.8986	113.0000	Spill Crest

Variable storage data for node | AN-7

Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft

1	100.3190	0.0000	4.3560	0.0000	0.0001	0.0000
2	100.3440	0.0250	150.8265	1.5068	0.0035	0.0000
3	100.3690	0.0500	297.2970	7.0058	0.0068	0.0002
4	100.3940	0.0750	443.7675	16.2082	0.0102	0.0004
5	100.4190	0.1000	590.2380	29.0898	0.0135	0.0007
6	100.4440	0.1250	736.7085	45.6428	0.0169	0.0010
7	100.4690	0.1500	883.1790	65.8638	0.0203	0.0015
8	100.4940	0.1750	1029.6495	89.7507	0.0236	0.0021
9	100.5190	0.2000	1176.1200	117.3026	0.0270	0.0027
10	100.5440	0.2250	1475.5950	150.3783	0.0339	0.0035
11	100.5690	0.2500	1775.0700	190.9540	0.0408	0.0044
12	100.5940	0.2750	2074.5450	239.0256	0.0476	0.0055
13	100.6190	0.3000	2374.0200	294.5906	0.0545	0.0068
14	100.6440	0.3250	2673.4950	357.6475	0.0614	0.0082
15	100.6690	0.3500	2972.9700	428.1952	0.0683	0.0098
16	100.6940	0.3750	3272.4450	506.2330	0.0751	0.0116
17	100.7190	0.4000	3571.9200	591.7602	0.0820	0.0136
18	100.7315	0.4125	3773.3850	637.6626	0.0866	0.0146
19	100.7440	0.4250	3974.8500	686.0836	0.0912	0.0158
20	100.7565	0.4375	4176.3150	737.0232	0.0959	0.0169
21	100.7690	0.4500	4377.7800	790.4814	0.1005	0.0181
22	100.7815	0.4625	4579.2450	846.4581	0.1051	0.0194
23	100.7940	0.4750	4780.7100	904.9533	0.1098	0.0208
24	100.8065	0.4875	4982.1750	965.9670	0.1144	0.0222
25	100.8190	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	100.8315	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	100.8440	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	100.8565	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	100.8690	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	100.8815	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	100.8940	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	100.9065	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	100.9190	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	100.9315	0.6125	7900.6950	1761.8875	0.1814	0.0404
35	100.9440	0.6250	8265.5100	1862.9177	0.1897	0.0428
36	100.9565	0.6375	8630.3250	1968.5084	0.1981	0.0452
37	100.9690	0.6500	8995.1400	2078.6597	0.2065	0.0477
38	100.9815	0.6625	9359.9550	2193.3715	0.2149	0.0504
39	100.9940	0.6750	9724.7700	2312.6438	0.2233	0.0531
40	101.0065	0.6875	10089.5850	2436.4765	0.2316	0.0559
41	101.0190	0.7000	10454.4000	2564.8697	0.2400	0.0589
42	101.0440	0.7250	11238.4800	2835.9716	0.2580	0.0651
43	101.0690	0.7500	12022.5600	3126.6795	0.2760	0.0718
44	101.0940	0.7750	12806.6400	3436.9929	0.2940	0.0789
45	101.1190	0.8000	13590.7200	3766.9114	0.3120	0.0865
46	101.1440	0.8250	14374.8000	4116.4346	0.3300	0.0945
47	101.1690	0.8500	15158.8800	4485.5622	0.3480	0.1030
48	101.1940	0.8750	15942.9600	4874.2940	0.3660	0.1119
49	101.2190	0.9000	16727.0400	5282.6298	0.3840	0.1213
50	108.5500	8.2310	16727.0400	127908.5600	0.3840	2.9364

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| Variable storage data for node | BN-1
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	99.3620	0.0000	4.3560	0.0000	0.0001	0.0000
2	99.3870	0.0250	150.8265	1.5068	0.0035	0.0000
3	99.4120	0.0500	297.2970	7.0058	0.0068	0.0002
4	99.4370	0.0750	443.7675	16.2082	0.0102	0.0004
5	99.4620	0.1000	590.2380	29.0898	0.0135	0.0007
6	99.4870	0.1250	736.7085	45.6428	0.0169	0.0010
7	99.5120	0.1500	883.1790	65.8638	0.0203	0.0015
8	99.5370	0.1750	1029.6495	89.7507	0.0236	0.0021
9	99.5620	0.2000	1176.1200	117.3026	0.0270	0.0027
10	99.5870	0.2250	1475.5950	150.3783	0.0339	0.0035
11	99.6120	0.2500	1775.0700	190.9540	0.0408	0.0044
12	99.6370	0.2750	2074.5450	239.0256	0.0476	0.0055
13	99.6620	0.3000	2374.0200	294.5906	0.0545	0.0068
14	99.6870	0.3250	2673.4950	357.6475	0.0614	0.0082
15	99.7120	0.3500	2972.9700	428.1952	0.0683	0.0098
16	99.7370	0.3750	3272.4450	506.2330	0.0751	0.0116
17	99.7620	0.4000	3571.9200	591.7602	0.0820	0.0136
18	99.7745	0.4125	3773.3850	637.6626	0.0866	0.0146
19	99.7870	0.4250	3974.8500	686.0836	0.0912	0.0158
20	99.7995	0.4375	4176.3150	737.0232	0.0959	0.0169
21	99.8120	0.4500	4377.7800	790.4814	0.1005	0.0181
22	99.8245	0.4625	4579.2450	846.4581	0.1051	0.0194
23	99.8370	0.4750	4780.7100	904.9533	0.1098	0.0208
24	99.8495	0.4875	4982.1750	965.9670	0.1144	0.0222
25	99.8620	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	99.8745	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	99.8870	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	99.8995	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	99.9120	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	99.9245	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	99.9370	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	99.9495	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	99.9620	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	99.9745	0.6125	7900.6950	1761.8875	0.1814	0.0404
35	99.9870	0.6250	8265.5100	1862.9177	0.1897	0.0428
36	99.9995	0.6375	8630.3250	1968.5084	0.1981	0.0452
37	100.0120	0.6500	8995.1400	2078.6597	0.2065	0.0477
38	100.0245	0.6625	9359.9550	2193.3715	0.2149	0.0504
39	100.0370	0.6750	9724.7700	2312.6438	0.2233	0.0531
40	100.0495	0.6875	10089.5850	2436.4765	0.2316	0.0559
41	100.0620	0.7000	10454.4000	2564.8697	0.2400	0.0589
42	100.0870	0.7250	11238.4800	2835.9716	0.2580	0.0651
43	100.1120	0.7500	12022.5600	3126.6795	0.2760	0.0718
44	100.1370	0.7750	12806.6400	3436.9929	0.2940	0.0789
45	100.1620	0.8000	13590.7200	3766.9114	0.3120	0.0865
46	100.1870	0.8250	14374.8000	4116.4346	0.3300	0.0945
47	100.2120	0.8500	15158.8800	4485.5622	0.3480	0.1030
48	100.2370	0.8750	15942.9600	4874.2940	0.3660	0.1119
49	100.2620	0.9000	16727.0400	5282.6298	0.3840	0.1213
50	107.8200	8.4580	16727.0400	131705.5981	0.3840	3.0235

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| Variable storage data for node | BN-2
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	99.9710	0.0000	4.3560	0.0000	0.0001	0.0000
2	99.9960	0.0250	150.8265	1.5068	0.0035	0.0000
3	100.0210	0.0500	297.2970	7.0058	0.0068	0.0002
4	100.0460	0.0750	443.7675	16.2082	0.0102	0.0004
5	100.0710	0.1000	590.2380	29.0898	0.0135	0.0007
6	100.0960	0.1250	736.7085	45.6428	0.0169	0.0010
7	100.1210	0.1500	883.1790	65.8638	0.0203	0.0015
8	100.1460	0.1750	1029.6495	89.7507	0.0236	0.0021
9	100.1710	0.2000	1176.1200	117.3026	0.0270	0.0027
10	100.1960	0.2250	1475.5950	150.3783	0.0339	0.0035
11	100.2210	0.2500	1775.0700	190.9540	0.0408	0.0044
12	100.2460	0.2750	2074.5450	239.0256	0.0476	0.0055
13	100.2710	0.3000	2374.0200	294.5906	0.0545	0.0068

14	100.2960	0.3250	2673.4950	357.6475	0.0614	0.0082
15	100.3210	0.3500	2972.9700	428.1952	0.0683	0.0098
16	100.3460	0.3750	3272.4450	506.2330	0.0751	0.0116
17	100.3710	0.4000	3571.9200	591.7602	0.0820	0.0136
18	100.3835	0.4125	3773.3850	637.6626	0.0866	0.0146
19	100.3960	0.4250	3974.8500	686.0836	0.0912	0.0158
20	100.4085	0.4375	4176.3150	737.0232	0.0959	0.0169
21	100.4210	0.4500	4377.7800	790.4814	0.1005	0.0181
22	100.4335	0.4625	4579.2450	846.4581	0.1051	0.0194
23	100.4460	0.4750	4780.7100	904.9533	0.1098	0.0208
24	100.4585	0.4875	4982.1750	965.9670	0.1144	0.0222
25	100.4710	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	100.4835	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	100.4960	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	100.5085	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	100.5210	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	100.5335	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	100.5460	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	100.5585	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	100.5710	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	100.5835	0.6125	7900.6950	1761.8875	0.1814	0.0404
35	100.5960	0.6250	8265.5100	1862.9177	0.1897	0.0428
36	100.6085	0.6375	8630.3250	1968.5084	0.1981	0.0452
37	100.6210	0.6500	8995.1400	2078.6597	0.2065	0.0477
38	100.6335	0.6625	9359.9550	2193.3715	0.2149	0.0504
39	100.6460	0.6750	9724.7700	2312.6438	0.2233	0.0531
40	100.6585	0.6875	10089.5850	2436.4765	0.2316	0.0559
41	100.6710	0.7000	10454.4000	2564.8697	0.2400	0.0589
42	100.6960	0.7250	11238.4800	2835.9716	0.2580	0.0651
43	100.7210	0.7500	12022.5600	3126.6795	0.2760	0.0718
44	100.7460	0.7750	12806.6400	3436.9929	0.2940	0.0789
45	100.7710	0.8000	13590.7200	3766.9114	0.3120	0.0865
46	100.7960	0.8250	14374.8000	4116.4346	0.3300	0.0945
47	100.8210	0.8500	15158.8800	4485.5622	0.3480	0.1030
48	100.8460	0.8750	15942.9600	4874.2940	0.3660	0.1119
49	100.8710	0.9000	16727.0400	5282.6298	0.3840	0.1213
50	107.5200	7.5490	16727.0400	116500.7188	0.3840	2.6745

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| Variable storage data for node | AN-6
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	101.1790	0.0000	4.3560	0.0000	0.0001	0.0000
2	101.2040	0.0250	150.8265	1.5068	0.0035	0.0000
3	101.2290	0.0500	297.2970	7.0058	0.0068	0.0002
4	101.2540	0.0750	443.7675	16.2082	0.0102	0.0004
5	101.2790	0.1000	590.2380	29.0898	0.0135	0.0007
6	101.3040	0.1250	736.7085	45.6428	0.0169	0.0010
7	101.3290	0.1500	883.1790	65.8638	0.0203	0.0015
8	101.3540	0.1750	1029.6495	89.7507	0.0236	0.0021
9	101.3790	0.2000	1176.1200	117.3026	0.0270	0.0027
10	101.4040	0.2250	1475.5950	150.3783	0.0339	0.0035
11	101.4290	0.2500	1775.0700	190.9540	0.0408	0.0044
12	101.4540	0.2750	2074.5450	239.0256	0.0476	0.0055
13	101.4790	0.3000	2374.0200	294.5906	0.0545	0.0068
14	101.5040	0.3250	2673.4950	357.6475	0.0614	0.0082
15	101.5290	0.3500	2972.9700	428.1952	0.0683	0.0098
16	101.5540	0.3750	3272.4450	506.2330	0.0751	0.0116
17	101.5790	0.4000	3571.9200	591.7602	0.0820	0.0136
18	101.5915	0.4125	3773.3850	637.6626	0.0866	0.0146
19	101.6040	0.4250	3974.8500	686.0836	0.0912	0.0158
20	101.6165	0.4375	4176.3150	737.0232	0.0959	0.0169
21	101.6290	0.4500	4377.7800	790.4814	0.1005	0.0181
22	101.6415	0.4625	4579.2450	846.4581	0.1051	0.0194
23	101.6540	0.4750	4780.7100	904.9533	0.1098	0.0208
24	101.6665	0.4875	4982.1750	965.9670	0.1144	0.0222
25	101.6790	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	101.6915	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	101.7040	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	101.7165	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	101.7290	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	101.7415	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	101.7540	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	101.7665	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	101.7790	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	101.7915	0.6125	7900.6950	1761.8875	0.1814	0.0404
35	101.8040	0.6250	8265.5100	1862.9177	0.1897	0.0428
36	101.8165	0.6375	8630.3250	1968.5084	0.1981	0.0452
37	101.8290	0.6500	8995.1400	2078.6597	0.2065	0.0477
38	101.8415	0.6625	9359.9550	2193.3715	0.2149	0.0504
39	101.8540	0.6750	9724.7700	2312.6438	0.2233	0.0531
40	101.8665	0.6875	10089.5850	2436.4765	0.2316	0.0559
41	101.8790	0.7000	10454.4000	2564.8697	0.2400	0.0589
42	101.9040	0.7250	11238.4800	2835.9716	0.2580	0.0651
43	101.9290	0.7500	12022.5600	3126.6795	0.2760	0.0718
44	101.9540	0.7750	12806.6400	3436.9929	0.2940	0.0789
45	101.9790	0.8000	13590.7200	3766.9114	0.3120	0.0865
46	102.0040	0.8250	14374.8000	4116.4346	0.3300	0.0945
47	102.0290	0.8500	15158.8800	4485.5622	0.3480	0.1030
48	102.0540	0.8750	15942.9600	4874.2940	0.3660	0.1119
49	102.0790	0.9000	16727.0400	5282.6298	0.3840	0.1213
50	109.3800	8.2010	16727.0400	127406.7488	0.3840	2.9249

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| Variable storage data for node | BN-3
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	100.4200	0.0000	4.3560	0.0000	0.0001	0.0000
2	100.4450	0.0250	150.8265	1.5068	0.0035	0.0000
3	100.4700	0.0500	297.2970	7.0058	0.0068	0.0002
4	100.4950	0.0750	443.7675	16.2082	0.0102	0.0004
5	100.5200	0.1000	590.2380	29.0898	0.0135	0.0007
6	100.5450	0.1250	736.7085	45.6428	0.0169	0.0010
7	100.5700	0.1500	883.1790	65.8638	0.0203	0.0015
8	100.5950	0.1750	1029.6495	89.7507	0.0236	0.0021
9	100.6200	0.2000	1176.1200	117.3026	0.0270	0.0027
10	100.6450	0.2250	1475.5950	150.3783	0.0339	0.0035
11	100.6700	0.2500	1775.0700	190.9540	0.0408	0.0044
12	100.6950	0.2750	2074.5450	239.0256	0.0476	0.0055
13	100.7200	0.3000	2374.0200	294.5906	0.0545	0.0068
14	100.7450	0.3250	2673.4950	357.6475	0.0614	0.0082
15	100.7700	0.3500	2972.9700	428.1952	0.0683	0.0098
16	100.7950	0.3750	3272.4450	506.2330	0.0751	0.0116
17	100.8200	0.4000	3571.9200	591.7602	0.0820	0.0136
18	100.8325	0.4125	3773.3850	637.6626	0.0866	0.0146
19	100.8450	0.4250	3974.8500	686.0836	0.0912	0.0158
20	100.8575	0.4375	4176.3150	737.0232	0.0959	0.0169
21	100.8700	0.4500	4377.7800	790.4814	0.1005	0.0181
22	100.8825	0.4625	4579.2450	846.4581	0.1051	0.0194
23	100.8950	0.4750	4780.7100	904.9533	0.1098	0.0208
24	100.9075	0.4875	4982.1750	965.9670	0.1144	0.0222
25	100.9200	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	100.9325	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	100.9450	0.5250	5771.7000	1166.4244	0.1325	0.0268

28	100.9575	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	100.9700	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	100.9825	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	100.9950	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	101.0075	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	101.0200	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	101.0325	0.6125	7900.6950	1761.8875	0.1814	0.0404
35	101.0450	0.6250	8265.5100	1862.9177	0.1897	0.0428
36	101.0575	0.6375	8630.3250	1968.5084	0.1981	0.0452
37	101.0700	0.6500	8995.1400	2078.6597	0.2065	0.0477
38	101.0825	0.6625	9359.9550	2193.3715	0.2149	0.0504
39	101.0950	0.6750	9724.7700	2312.6438	0.2233	0.0531
40	101.1075	0.6875	10089.5850	2436.4765	0.2316	0.0559
41	101.1200	0.7000	10454.4000	2564.8697	0.2400	0.0589
42	101.1450	0.7250	11238.4800	2835.9716	0.2580	0.0651
43	101.1700	0.7500	12022.5600	3126.6795	0.2760	0.0718
44	101.1950	0.7750	12806.6400	3436.9929	0.2940	0.0789
45	101.2200	0.8000	13590.7200	3766.9114	0.3120	0.0865
46	101.2450	0.8250	14374.8000	4116.4346	0.3300	0.0945
47	101.2700	0.8500	15158.8800	4485.5622	0.3480	0.1030
48	101.2950	0.8750	15942.9600	4874.2940	0.3660	0.1119
49	101.3200	0.9000	16727.0400	5282.6298	0.3840	0.1213
50	106.1700	5.7500	16727.0400	86408.7738	0.3840	1.9837

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| Variable storage data for node | AN-5
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	101.6810	0.0000	4.3560	0.0000	0.0001	0.0000
2	101.7060	0.0250	150.8265	1.5068	0.0035	0.0000
3	101.7310	0.0500	297.2970	7.0058	0.0068	0.0002
4	101.7560	0.0750	443.7675	16.2082	0.0102	0.0004
5	101.7810	0.1000	590.2380	29.0898	0.0135	0.0007
6	101.8060	0.1250	736.7085	45.6428	0.0169	0.0010
7	101.8310	0.1500	883.1790	65.8638	0.0203	0.0015
8	101.8560	0.1750	1029.6495	89.7507	0.0236	0.0021
9	101.8810	0.2000	1176.1200	117.3026	0.0270	0.0027
10	101.9060	0.2250	1475.5950	150.3783	0.0339	0.0035
11	101.9310	0.2500	1775.0700	190.9540	0.0408	0.0044
12	101.9560	0.2750	2074.5450	239.0256	0.0476	0.0055
13	101.9810	0.3000	2374.0200	294.5906	0.0545	0.0068
14	102.0060	0.3250	2673.4950	357.6475	0.0614	0.0082
15	102.0310	0.3500	2972.9700	428.1952	0.0683	0.0098
16	102.0560	0.3750	3272.4450	506.2330	0.0751	0.0116
17	102.0810	0.4000	3571.9200	591.7602	0.0820	0.0136
18	102.0935	0.4125	3773.3850	637.6626	0.0866	0.0146
19	102.1060	0.4250	3974.8500	686.0836	0.0912	0.0158
20	102.1185	0.4375	4176.3150	737.0232	0.0959	0.0169
21	102.1310	0.4500	4377.7800	790.4814	0.1005	0.0181
22	102.1435	0.4625	4579.2450	846.4581	0.1051	0.0194
23	102.1560	0.4750	4780.7100	904.9533	0.1098	0.0208
24	102.1685	0.4875	4982.1750	965.9670	0.1144	0.0222
25	102.1810	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	102.1935	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	102.2060	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	102.2185	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	102.2310	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	102.2435	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	102.2560	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	102.2685	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	102.2810	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	102.2935	0.6125	7900.6950	1761.8875	0.1814	0.0404
35	102.3060	0.6250	8265.5100	1862.9177	0.1897	0.0428
36	102.3185	0.6375	8630.3250	1968.5084	0.1981	0.0452
37	102.3310	0.6500	8995.1400	2078.6597	0.2065	0.0477
38	102.3435	0.6625	9359.9550	2193.3715	0.2149	0.0504
39	102.3560	0.6750	9724.7700	2312.6438	0.2233	0.0531
40	102.3685	0.6875	10089.5850	2436.4765	0.2316	0.0559
41	102.3810	0.7000	10454.4000	2564.8697	0.2400	0.0589
42	102.4060	0.7250	11238.4800	2835.9716	0.2580	0.0651
43	102.4310	0.7500	12022.5600	3126.6795	0.2760	0.0718
44	102.4560	0.7750	12806.6400	3436.9929	0.2940	0.0789
45	102.4810	0.8000	13590.7200	3766.9114	0.3120	0.0865
46	102.5060	0.8250	14374.8000	4116.4346	0.3300	0.0945
47	102.5310	0.8500	15158.8800	4485.5622	0.3480	0.1030
48	102.5560	0.8750	15942.9600	4874.2940	0.3660	0.1119
49	102.5810	0.9000	16727.0400	5282.6298	0.3840	0.1213
50	110.3600	8.6790	16727.0400	135402.2740	0.3840	3.1084

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| Variable storage data for node | AN-4
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	102.0810	0.0000	4.3560	0.0000	0.0001	0.0000
2	102.1060	0.0250	150.8265	1.5068	0.0035	0.0000
3	102.1310	0.0500	297.2970	7.0058	0.0068	0.0002
4	102.1560	0.0750	443.7675	16.2082	0.0102	0.0004
5	102.1810	0.1000	590.2380	29.0898	0.0135	0.0007
6	102.2060	0.1250	736.7085	45.6428	0.0169	0.0010
7	102.2310	0.1500	883.1790	65.8638	0.0203	0.0015
8	102.2560	0.1750	1029.6495	89.7507	0.0236	0.0021
9	102.2810	0.2000	1176.1200	117.3026	0.0270	0.0027
10	102.3060	0.2250	1475.5950	150.3783	0.0339	0.0035
11	102.3310	0.2500	1775.0700	190.9540	0.0408	0.0044
12	102.3560	0.2750	2074.5450	239.0256	0.0476	0.0055
13	102.3810	0.3000	2374.0200	294.5906	0.0545	0.0068
14	102.4060	0.3250	2673.4950	357.6475	0.0614	0.0082
15	102.4310	0.3500	2972.9700	428.1952	0.0683	0.0098
16	102.4560	0.3750	3272.4450	506.2330	0.0751	0.0116
17	102.4810	0.4000	3571.9200	591.7602	0.0820	0.0136
18	102.4935	0.4125	3773.3850	637.6626	0.0866	0.0146
19	102.5060	0.4250	3974.8500	686.0836	0.0912	0.0158
20	102.5185	0.4375	4176.3150	737.0232	0.0959	0.0169
21	102.5310	0.4500	4377.7800	790.4814	0.1005	0.0181
22	102.5435	0.4625	4579.2450	846.4581	0.1051	0.0194
23	102.5560	0.4750	4780.7100	904.9533	0.1098	0.0208
24	102.5685	0.4875	4982.1750	965.9670	0.1144	0.0222
25	102.5810	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	102.5935	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	102.6060	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	102.6185	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	102.6310	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	102.6435	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	102.6560	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	102.6685	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	102.6810	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	102.6935	0.6125	7900.6950	1761.8875	0.1814	0.0404
35	102.7060	0.6250	8265.5100	1862.9177	0.1897	0.0428
36	102.7185	0.6375	8630.3250	1968.5084	0.1981	0.0452
37	102.7310	0.6500	8995.1400	2078.6597	0.2065	0.0477
38	102.7435	0.6625	9359.9550	2193.3715	0.2149	0.0504
39	102.7560	0.6750	9724.7700	2312.6438	0.2233	0.0531
40	102.7685	0.6875	10089.5850	2436.4765	0.2316	0.0559
41	102.7810	0.7000	10454.4000	2564.8697	0.2400	0.0589

42	102.8060	0.7250	11238.4800	2835.9716	0.2580	0.0651
43	102.8310	0.7500	12022.5600	3126.6795	0.2760	0.0718
44	102.8560	0.7750	12806.6400	3436.9929	0.2940	0.0789
45	102.8810	0.8000	13590.7200	3766.9114	0.3120	0.0865
46	102.9060	0.8250	14374.8000	4116.4346	0.3300	0.0945
47	102.9310	0.8500	15158.8800	4485.5622	0.3480	0.1030
48	102.9560	0.8750	15942.9600	4874.2940	0.3660	0.1119
49	102.9810	0.9000	16727.0400	5282.6298	0.3840	0.1213
50	111.0400	8.9590	16727.0400	140085.8452	0.3840	3.2159

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| Variable storage data for node | AN-3
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	102.6810	0.0000	4.3560	0.0000	0.0001	0.0000
2	102.7060	0.0250	150.8265	1.5068	0.0035	0.0000
3	102.7310	0.0500	297.2970	7.0058	0.0068	0.0002
4	102.7560	0.0750	443.7675	16.2082	0.0102	0.0004
5	102.7810	0.1000	590.2380	29.0898	0.0135	0.0007
6	102.8060	0.1250	736.7085	45.6428	0.0169	0.0010
7	102.8310	0.1500	883.1790	65.8638	0.0203	0.0015
8	102.8560	0.1750	1029.6495	89.7507	0.0236	0.0021
9	102.8810	0.2000	1176.1200	117.3026	0.0270	0.0027
10	102.9060	0.2250	1475.5950	150.3783	0.0339	0.0035
11	102.9310	0.2500	1775.0700	190.9540	0.0408	0.0044
12	102.9560	0.2750	2074.5450	239.0256	0.0476	0.0055
13	102.9810	0.3000	2374.0200	294.5906	0.0545	0.0068
14	103.0060	0.3250	2673.4950	357.6475	0.0614	0.0082
15	103.0310	0.3500	2972.9700	428.1952	0.0683	0.0098
16	103.0560	0.3750	3272.4450	506.2330	0.0751	0.0116
17	103.0810	0.4000	3571.9200	591.7602	0.0820	0.0136
18	103.0935	0.4125	3773.3850	637.6626	0.0866	0.0146
19	103.1060	0.4250	3974.8500	686.0836	0.0912	0.0158
20	103.1185	0.4375	4176.3150	737.0232	0.0959	0.0169
21	103.1310	0.4500	4377.7800	790.4814	0.1005	0.0181
22	103.1435	0.4625	4579.2450	846.4581	0.1051	0.0194
23	103.1560	0.4750	4780.7100	904.9533	0.1098	0.0208
24	103.1685	0.4875	4982.1750	965.9670	0.1144	0.0222
25	103.1810	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	103.1935	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	103.2060	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	103.2185	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	103.2310	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	103.2435	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	103.2560	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	103.2685	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	103.2810	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	103.2935	0.6125	7900.6950	1761.8875	0.1814	0.0404
35	103.3060	0.6250	8265.5100	1862.9177	0.1897	0.0428
36	103.3185	0.6375	8630.3250	1968.5084	0.1981	0.0452
37	103.3310	0.6500	8995.1400	2078.6597	0.2065	0.0477
38	103.3435	0.6625	9359.9550	2193.3715	0.2149	0.0504
39	103.3560	0.6750	9724.7700	2312.6438	0.2233	0.0531
40	103.3685	0.6875	10089.5850	2436.4765	0.2316	0.0559
41	103.3810	0.7000	10454.4000	2564.8697	0.2400	0.0589
42	103.4060	0.7250	11238.4800	2835.9716	0.2580	0.0651
43	103.4310	0.7500	12022.5600	3126.6795	0.2760	0.0718
44	103.4560	0.7750	12806.6400	3436.9929	0.2940	0.0789
45	103.4810	0.8000	13590.7200	3766.9114	0.3120	0.0865
46	103.5060	0.8250	14374.8000	4116.4346	0.3300	0.0945
47	103.5310	0.8500	15158.8800	4485.5622	0.3480	0.1030
48	103.5560	0.8750	15942.9600	4874.2940	0.3660	0.1119
49	103.5810	0.9000	16727.0400	5282.6298	0.3840	0.1213
50	111.6400	8.9590	16727.0400	140085.8452	0.3840	3.2159

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| Variable storage data for node | AN-2
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	103.1810	0.0000	4.3560	0.0000	0.0001	0.0000
2	103.2060	0.0250	150.8265	1.5068	0.0035	0.0000
3	103.2310	0.0500	297.2970	7.0058	0.0068	0.0002
4	103.2560	0.0750	443.7675	16.2082	0.0102	0.0004
5	103.2810	0.1000	590.2380	29.0898	0.0135	0.0007
6	103.3060	0.1250	736.7085	45.6428	0.0169	0.0010
7	103.3310	0.1500	883.1790	65.8638	0.0203	0.0015
8	103.3560	0.1750	1029.6495	89.7507	0.0236	0.0021
9	103.3810	0.2000	1176.1200	117.3026	0.0270	0.0027
10	103.4060	0.2250	1475.5950	150.3783	0.0339	0.0035
11	103.4310	0.2500	1775.0700	190.9540	0.0408	0.0044
12	103.4560	0.2750	2074.5450	239.0256	0.0476	0.0055
13	103.4810	0.3000	2374.0200	294.5906	0.0545	0.0068
14	103.5060	0.3250	2673.4950	357.6475	0.0614	0.0082
15	103.5310	0.3500	2972.9700	428.1952	0.0683	0.0098
16	103.5560	0.3750	3272.4450	506.2330	0.0751	0.0116
17	103.5810	0.4000	3571.9200	591.7602	0.0820	0.0136
18	103.5935	0.4125	3773.3850	637.6626	0.0866	0.0146
19	103.6060	0.4250	3974.8500	686.0836	0.0912	0.0158
20	103.6185	0.4375	4176.3150	737.0232	0.0959	0.0169
21	103.6310	0.4500	4377.7800	790.4814	0.1005	0.0181
22	103.6435	0.4625	4579.2450	846.4581	0.1051	0.0194
23	103.6560	0.4750	4780.7100	904.9533	0.1098	0.0208
24	103.6685	0.4875	4982.1750	965.9670	0.1144	0.0222
25	103.6810	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	103.6935	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	103.7060	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	103.7185	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	103.7310	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	103.7435	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	103.7560	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	103.7685	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	103.7810	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	103.7935	0.6125	7900.6950	1761.8875	0.1814	0.0404
35	103.8060	0.6250	8265.5100	1862.9177	0.1897	0.0428
36	103.8185	0.6375	8630.3250	1968.5084	0.1981	0.0452
37	103.8310	0.6500	8995.1400	2078.6597	0.2065	0.0477
38	103.8435	0.6625	9359.9550	2193.3715	0.2149	0.0504
39	103.8560	0.6750	9724.7700	2312.6438	0.2233	0.0531
40	103.8685	0.6875	10089.5850	2436.4765	0.2316	0.0559
41	103.8810	0.7000	10454.4000	2564.8697	0.2400	0.0589
42	103.9060	0.7250	11238.4800	2835.9716	0.2580	0.0651
43	103.9310	0.7500	12022.5600	3126.6795	0.2760	0.0718
44	103.9560	0.7750	12806.6400	3436.9929	0.2940	0.0789
45	103.9810	0.8000	13590.7200	3766.9114	0.3120	0.0865
46	104.0060	0.8250	14374.8000	4116.4346	0.3300	0.0945
47	104.0310	0.8500	15158.8800	4485.5622	0.3480	0.1030
48	104.0560	0.8750	15942.9600	4874.2940	0.3660	0.1119
49	104.0810	0.9000	16727.0400	5282.6298	0.3840	0.1213
50	111.9400	8.7590	16727.0400	136740.4372	0.3840	3.1391

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| Variable storage data for node | AS-8
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Data	Elevation	Depth	Area	Volume	Area	Volume

Point	ft	ft	ft^2	ft^3	acres	ac-ft
1	100.2310	0.0000	4.3560	0.0000	0.0001	0.0000
2	100.2560	0.0250	150.8265	1.5068	0.0035	0.0000
3	100.2810	0.0500	297.2970	7.0058	0.0068	0.0002
4	100.3060	0.0750	443.7675	16.2082	0.0102	0.0004
5	100.3310	0.1000	590.2380	29.0898	0.0135	0.0007
6	100.3560	0.1250	736.7085	45.6428	0.0169	0.0010
7	100.3810	0.1500	883.1790	65.8638	0.0203	0.0015
8	100.4060	0.1750	1029.6495	89.7507	0.0236	0.0021
9	100.4310	0.2000	1176.1200	117.3026	0.0270	0.0027
10	100.4560	0.2250	1475.5950	150.3783	0.0339	0.0035
11	100.4810	0.2500	1775.0700	190.9540	0.0408	0.0044
12	100.5060	0.2750	2074.5450	239.0256	0.0476	0.0055
13	100.5310	0.3000	2374.0200	294.5906	0.0545	0.0068
14	100.5560	0.3250	2673.4950	357.6475	0.0614	0.0082
15	100.5810	0.3500	2972.9700	428.1952	0.0683	0.0098
16	100.6060	0.3750	3272.4450	506.2330	0.0751	0.0116
17	100.6310	0.4000	3571.9200	591.7602	0.0820	0.0136
18	100.6435	0.4125	3773.3850	637.6626	0.0866	0.0146
19	100.6560	0.4250	3974.8500	686.0836	0.0912	0.0158
20	100.6685	0.4375	4176.3150	737.0232	0.0959	0.0169
21	100.6810	0.4500	4377.7800	790.4814	0.1005	0.0181
22	100.6935	0.4625	4579.2450	846.4581	0.1051	0.0194
23	100.7060	0.4750	4780.7100	904.9533	0.1098	0.0208
24	100.7185	0.4875	4982.1750	965.9670	0.1144	0.0222
25	100.7310	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	100.7435	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	100.7560	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	100.7685	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	100.7810	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	100.7935	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	100.8060	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	100.8185	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	100.8310	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	100.8435	0.6125	7900.6950	1761.8875	0.1814	0.0404
35	100.8560	0.6250	8265.5100	1862.9177	0.1897	0.0428
36	100.8685	0.6375	8630.3250	1968.5084	0.1981	0.0452
37	100.8810	0.6500	8995.1400	2078.6597	0.2065	0.0477
38	100.8935	0.6625	9359.9550	2193.3715	0.2149	0.0504
39	100.9060	0.6750	9724.7700	2312.6438	0.2233	0.0531
40	100.9185	0.6875	10089.5850	2436.4765	0.2316	0.0559
41	100.9310	0.7000	10454.4000	2564.8697	0.2400	0.0589
42	100.9560	0.7250	11238.4800	2835.9716	0.2580	0.0651
43	100.9810	0.7500	12022.5600	3126.6795	0.2760	0.0718
44	101.0060	0.7750	12806.6400	3436.9929	0.2940	0.0789
45	101.0310	0.8000	13590.7200	3766.9114	0.3120	0.0865
46	101.0560	0.8250	14374.8000	4116.4346	0.3300	0.0945
47	101.0810	0.8500	15158.8800	4485.5622	0.3480	0.1030
48	101.1060	0.8750	15942.9600	4874.2940	0.3660	0.1119
49	101.1310	0.9000	16727.0400	5282.6298	0.3840	0.1213
50	110.0000	9.7690	16727.0400	153634.7476	0.3840	3.5270

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| Variable storage data for node | BS-1
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	100.2890	0.0000	4.3560	0.0000	0.0001	0.0000
2	100.3140	0.0250	150.8265	1.5068	0.0035	0.0000
3	100.3390	0.0500	297.2970	7.0058	0.0068	0.0002
4	100.3640	0.0750	443.7675	16.2082	0.0102	0.0004
5	100.3890	0.1000	590.2380	29.0898	0.0135	0.0007
6	100.4140	0.1250	736.7085	45.6428	0.0169	0.0010
7	100.4390	0.1500	883.1790	65.8638	0.0203	0.0015
8	100.4640	0.1750	1029.6495	89.7507	0.0236	0.0021
9	100.4890	0.2000	1176.1200	117.3026	0.0270	0.0027
10	100.5140	0.2250	1475.5950	150.3783	0.0339	0.0035
11	100.5390	0.2500	1775.0700	190.9540	0.0408	0.0044
12	100.5640	0.2750	2074.5450	239.0256	0.0476	0.0055
13	100.5890	0.3000	2374.0200	294.5906	0.0545	0.0068
14	100.6140	0.3250	2673.4950	357.6475	0.0614	0.0082
15	100.6390	0.3500	2972.9700	428.1952	0.0683	0.0098
16	100.6640	0.3750	3272.4450	506.2330	0.0751	0.0116
17	100.6890	0.4000	3571.9200	591.7602	0.0820	0.0136
18	100.7015	0.4125	3773.3850	637.6626	0.0866	0.0146
19	100.7140	0.4250	3974.8500	686.0836	0.0912	0.0158
20	100.7265	0.4375	4176.3150	737.0232	0.0959	0.0169
21	100.7390	0.4500	4377.7800	790.4814	0.1005	0.0181
22	100.7515	0.4625	4579.2450	846.4581	0.1051	0.0194
23	100.7640	0.4750	4780.7100	904.9533	0.1098	0.0208
24	100.7765	0.4875	4982.1750	965.9670	0.1144	0.0222
25	100.7890	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	100.8015	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	100.8140	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	100.8265	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	100.8390	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	100.8515	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	100.8640	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	100.8765	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	100.8890	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	100.9015	0.6125	7900.6950	1761.8875	0.1814	0.0404
35	100.9140	0.6250	8265.5100	1862.9177	0.1897	0.0428
36	100.9265	0.6375	8630.3250	1968.5084	0.1981	0.0452
37	100.9390	0.6500	8995.1400	2078.6597	0.2065	0.0477
38	100.9515	0.6625	9359.9550	2193.3715	0.2149	0.0504
39	100.9640	0.6750	9724.7700	2312.6438	0.2233	0.0531
40	100.9765	0.6875	10089.5850	2436.4765	0.2316	0.0559
41	100.9890	0.7000	10454.4000	2564.8697	0.2400	0.0589
42	101.0140	0.7250	11238.4800	2835.9716	0.2580	0.0651
43	101.0390	0.7500	12022.5600	3126.6795	0.2760	0.0718
44	101.0640	0.7750	12806.6400	3436.9929	0.2940	0.0789
45	101.0890	0.8000	13590.7200	3766.9114	0.3120	0.0865
46	101.1140	0.8250	14374.8000	4116.4346	0.3300	0.0945
47	101.1390	0.8500	15158.8800	4485.5622	0.3480	0.1030
48	101.1640	0.8750	15942.9600	4874.2940	0.3660	0.1119
49	101.1890	0.9000	16727.0400	5282.6298	0.3840	0.1213
50	109.1900	8.9010	16727.0400	139115.6768	0.3840	3.1937

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| Variable storage data for node | AS-7
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	100.6110	0.0000	4.3560	0.0000	0.0001	0.0000
2	100.6360	0.0250	150.8265	1.5068	0.0035	0.0000
3	100.6610	0.0500	297.2970	7.0058	0.0068	0.0002
4	100.6860	0.0750	443.7675	16.2082	0.0102	0.0004
5	100.7110	0.1000	590.2380	29.0898	0.0135	0.0007
6	100.7360	0.1250	736.7085	45.6428	0.0169	0.0010
7	100.7610	0.1500	883.1790	65.8638	0.0203	0.0015
8	100.7860	0.1750	1029.6495	89.7507	0.0236	0.0021
9	100.8110	0.2000	1176.1200	117.3026	0.0270	0.0027
10	100.8360	0.2250	1475.5950	150.3783	0.0339	0.0035
11	100.8610	0.2500	1775.0700	190.9540	0.0408	0.0044
12	100.8860	0.2750	2074.5450	239.0256	0.0476	0.0055

13	100.9110	0.3000	2374.0200	294.5906	0.0545	0.0068
14	100.9360	0.3250	2673.4950	357.6475	0.0614	0.0082
15	100.9610	0.3500	2972.9700	428.1952	0.0683	0.0098
16	100.9860	0.3750	3272.4450	506.2330	0.0751	0.0116
17	101.0110	0.4000	3571.9200	591.7602	0.0820	0.0136
18	101.0235	0.4125	3773.3850	637.6626	0.0866	0.0146
19	101.0360	0.4250	3974.8500	686.0836	0.0912	0.0158
20	101.0485	0.4375	4176.3150	737.0232	0.0959	0.0169
21	101.0610	0.4500	4377.7800	790.4814	0.1005	0.0181
22	101.0735	0.4625	4579.2450	846.4581	0.1051	0.0194
23	101.0860	0.4750	4780.7100	904.9533	0.1098	0.0208
24	101.0985	0.4875	4982.1750	965.9670	0.1144	0.0222
25	101.1110	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	101.1235	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	101.1360	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	101.1485	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	101.1610	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	101.1735	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	101.1860	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	101.1985	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	101.2110	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	101.2235	0.6125	7900.6950	1761.8875	0.1814	0.0404
35	101.2360	0.6250	8265.5100	1862.9177	0.1897	0.0428
36	101.2485	0.6375	8630.3250	1968.5084	0.1981	0.0452
37	101.2610	0.6500	8995.1400	2078.6597	0.2065	0.0477
38	101.2735	0.6625	9359.9550	2193.3715	0.2149	0.0504
39	101.2860	0.6750	9724.7700	2312.6438	0.2233	0.0531
40	101.2985	0.6875	10089.5850	2436.4765	0.2316	0.0559
41	101.3110	0.7000	10454.4000	2564.8697	0.2400	0.0589
42	101.3360	0.7250	11238.4800	2835.9716	0.2580	0.0651
43	101.3610	0.7500	12022.5600	3126.6795	0.2760	0.0718
44	101.3860	0.7750	12806.6400	3436.9929	0.2940	0.0789
45	101.4110	0.8000	13590.7200	3766.9114	0.3120	0.0865
46	101.4360	0.8250	14374.8000	4116.4346	0.3300	0.0945
47	101.4610	0.8500	15158.8800	4485.5622	0.3480	0.1030
48	101.4860	0.8750	15942.9600	4874.2940	0.3660	0.1119
49	101.5110	0.9000	16727.0400	5282.6298	0.3840	0.1213
50	110.0000	9.3890	16727.0400	147278.4724	0.3840	3.3810

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| Variable storage data for node | BS-2
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	100.8390	0.0000	4.3560	0.0000	0.0001	0.0000
2	100.8640	0.0250	150.8265	1.5068	0.0035	0.0000
3	100.8890	0.0500	297.2970	7.0058	0.0068	0.0002
4	100.9140	0.0750	443.7675	16.2082	0.0102	0.0004
5	100.9390	0.1000	590.2380	29.0898	0.0135	0.0007
6	100.9640	0.1250	736.7085	45.6428	0.0169	0.0010
7	100.9890	0.1500	883.1790	65.8638	0.0203	0.0015
8	101.0140	0.1750	1029.6495	89.7507	0.0236	0.0021
9	101.0390	0.2000	1176.1200	117.3026	0.0270	0.0027
10	101.0640	0.2250	1475.5950	150.3783	0.0339	0.0035
11	101.0890	0.2500	1775.0700	190.9540	0.0408	0.0044
12	101.1140	0.2750	2074.5450	239.0256	0.0476	0.0055
13	101.1390	0.3000	2374.0200	294.5906	0.0545	0.0068
14	101.1640	0.3250	2673.4950	357.6475	0.0614	0.0082
15	101.1890	0.3500	2972.9700	428.1952	0.0683	0.0098
16	101.2140	0.3750	3272.4450	506.2330	0.0751	0.0116
17	101.2390	0.4000	3571.9200	591.7602	0.0820	0.0136
18	101.2515	0.4125	3773.3850	637.6626	0.0866	0.0146
19	101.2640	0.4250	3974.8500	686.0836	0.0912	0.0158
20	101.2765	0.4375	4176.3150	737.0232	0.0959	0.0169
21	101.2890	0.4500	4377.7800	790.4814	0.1005	0.0181
22	101.3015	0.4625	4579.2450	846.4581	0.1051	0.0194
23	101.3140	0.4750	4780.7100	904.9533	0.1098	0.0208
24	101.3265	0.4875	4982.1750	965.9670	0.1144	0.0222
25	101.3390	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	101.3515	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	101.3640	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	101.3765	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	101.3890	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	101.4015	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	101.4140	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	101.4265	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	101.4390	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	101.4515	0.6125	7900.6950	1761.8875	0.1814	0.0404
35	101.4640	0.6250	8265.5100	1862.9177	0.1897	0.0428
36	101.4765	0.6375	8630.3250	1968.5084	0.1981	0.0452
37	101.4890	0.6500	8995.1400	2078.6597	0.2065	0.0477
38	101.5015	0.6625	9359.9550	2193.3715	0.2149	0.0504
39	101.5140	0.6750	9724.7700	2312.6438	0.2233	0.0531
40	101.5265	0.6875	10089.5850	2436.4765	0.2316	0.0559
41	101.5390	0.7000	10454.4000	2564.8697	0.2400	0.0589
42	101.5640	0.7250	11238.4800	2835.9716	0.2580	0.0651
43	101.5890	0.7500	12022.5600	3126.6795	0.2760	0.0718
44	101.6140	0.7750	12806.6400	3436.9929	0.2940	0.0789
45	101.6390	0.8000	13590.7200	3766.9114	0.3120	0.0865
46	101.6640	0.8250	14374.8000	4116.4346	0.3300	0.0945
47	101.6890	0.8500	15158.8800	4485.5622	0.3480	0.1030
48	101.7140	0.8750	15942.9600	4874.2940	0.3660	0.1119
49	101.7390	0.9000	16727.0400	5282.6298	0.3840	0.1213
50	108.9000	8.0610	16727.0400	125064.9632	0.3840	2.8711

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| Variable storage data for node | AS-6
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	101.2610	0.0000	4.3560	0.0000	0.0001	0.0000
2	101.2860	0.0250	150.8265	1.5068	0.0035	0.0000
3	101.3110	0.0500	297.2970	7.0058	0.0068	0.0002
4	101.3360	0.0750	443.7675	16.2082	0.0102	0.0004
5	101.3610	0.1000	590.2380	29.0898	0.0135	0.0007
6	101.3860	0.1250	736.7085	45.6428	0.0169	0.0010
7	101.4110	0.1500	883.1790	65.8638	0.0203	0.0015
8	101.4360	0.1750	1029.6495	89.7507	0.0236	0.0021
9	101.4610	0.2000	1176.1200	117.3026	0.0270	0.0027
10	101.4860	0.2250	1475.5950	150.3783	0.0339	0.0035
11	101.5110	0.2500	1775.0700	190.9540	0.0408	0.0044
12	101.5360	0.2750	2074.5450	239.0256	0.0476	0.0055
13	101.5610	0.3000	2374.0200	294.5906	0.0545	0.0068
14	101.5860	0.3250	2673.4950	357.6475	0.0614	0.0082
15	101.6110	0.3500	2972.9700	428.1952	0.0683	0.0098
16	101.6360	0.3750	3272.4450	506.2330	0.0751	0.0116
17	101.6610	0.4000	3571.9200	591.7602	0.0820	0.0136
18	101.6735	0.4125	3773.3850	637.6626	0.0866	0.0146
19	101.6860	0.4250	3974.8500	686.0836	0.0912	0.0158
20	101.6985	0.4375	4176.3150	737.0232	0.0959	0.0169
21	101.7110	0.4500	4377.7800	790.4814	0.1005	0.0181
22	101.7235	0.4625	4579.2450	846.4581	0.1051	0.0194
23	101.7360	0.4750	4780.7100	904.9533	0.1098	0.0208
24	101.7485	0.4875	4982.1750	965.9670	0.1144	0.0222
25	101.7610	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	101.7735	0.5125	5477.6700	1096.1239	0.1258	0.0252

27	101.7860	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	101.7985	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	101.8110	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	101.8235	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	101.8360	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	101.8485	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	101.8610	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	101.8735	0.6125	7900.6950	1761.8875	0.1814	0.0404
35	101.8860	0.6250	8265.5100	1862.9177	0.1897	0.0428
36	101.8985	0.6375	8630.3250	1968.5084	0.1981	0.0452
37	101.9110	0.6500	8995.1400	2078.6597	0.2065	0.0477
38	101.9235	0.6625	9359.9550	2193.3715	0.2149	0.0504
39	101.9360	0.6750	9724.7700	2312.6438	0.2233	0.0531
40	101.9485	0.6875	10089.5850	2436.4765	0.2316	0.0559
41	101.9610	0.7000	10454.4000	2564.8697	0.2400	0.0589
42	101.9860	0.7250	11238.4800	2835.9716	0.2580	0.0651
43	102.0110	0.7500	12022.5600	3126.6795	0.2760	0.0718
44	102.0360	0.7750	12806.6400	3436.9929	0.2940	0.0789
45	102.0610	0.8000	13590.7200	3766.9114	0.3120	0.0865
46	102.0860	0.8250	14374.8000	4116.4346	0.3300	0.0945
47	102.1110	0.8500	15158.8800	4485.5622	0.3480	0.1030
48	102.1360	0.8750	15942.9600	4874.2940	0.3660	0.1119
49	102.1610	0.9000	16727.0400	5282.6298	0.3840	0.1213
50	111.6500	10.3890	16727.0400	164005.5124	0.3840	3.7650

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| Variable storage data for node | BS-3
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	101.3890	0.0000	4.3560	0.0000	0.0001	0.0000
2	101.4140	0.0250	150.8265	1.5068	0.0035	0.0000
3	101.4390	0.0500	297.2970	7.0058	0.0068	0.0002
4	101.4640	0.0750	443.7675	16.2082	0.0102	0.0004
5	101.4890	0.1000	590.2380	29.0898	0.0135	0.0007
6	101.5140	0.1250	736.7085	45.6428	0.0169	0.0010
7	101.5390	0.1500	883.1790	65.8638	0.0203	0.0015
8	101.5640	0.1750	1029.6495	89.7507	0.0236	0.0021
9	101.5890	0.2000	1176.1200	117.3026	0.0270	0.0027
10	101.6140	0.2250	1475.5950	150.3783	0.0339	0.0035
11	101.6390	0.2500	1775.0700	190.9540	0.0408	0.0044
12	101.6640	0.2750	2074.5450	239.0256	0.0476	0.0055
13	101.6890	0.3000	2374.0200	294.5906	0.0545	0.0068
14	101.7140	0.3250	2673.4950	357.6475	0.0614	0.0082
15	101.7390	0.3500	2972.9700	428.1952	0.0683	0.0098
16	101.7640	0.3750	3272.4450	506.2330	0.0751	0.0116
17	101.7890	0.4000	3571.9200	591.7602	0.0820	0.0136
18	101.8015	0.4125	3773.3850	637.6626	0.0866	0.0146
19	101.8140	0.4250	3974.8500	686.0836	0.0912	0.0158
20	101.8265	0.4375	4176.3150	737.0232	0.0959	0.0169
21	101.8390	0.4500	4377.7800	790.4814	0.1005	0.0181
22	101.8515	0.4625	4579.2450	846.4581	0.1051	0.0194
23	101.8640	0.4750	4780.7100	904.9533	0.1098	0.0208
24	101.8765	0.4875	4982.1750	965.9670	0.1144	0.0222
25	101.8890	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	101.9015	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	101.9140	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	101.9265	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	101.9390	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	101.9515	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	101.9640	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	101.9765	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	101.9890	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	102.0015	0.6125	7900.6950	1761.8875	0.1814	0.0404
35	102.0140	0.6250	8265.5100	1862.9177	0.1897	0.0428
36	102.0265	0.6375	8630.3250	1968.5084	0.1981	0.0452
37	102.0390	0.6500	8995.1400	2078.6597	0.2065	0.0477
38	102.0515	0.6625	9359.9550	2193.3715	0.2149	0.0504
39	102.0640	0.6750	9724.7700	2312.6438	0.2233	0.0531
40	102.0765	0.6875	10089.5850	2436.4765	0.2316	0.0559
41	102.0890	0.7000	10454.4000	2564.8697	0.2400	0.0589
42	102.1140	0.7250	11238.4800	2835.9716	0.2580	0.0651
43	102.1390	0.7500	12022.5600	3126.6795	0.2760	0.0718
44	102.1640	0.7750	12806.6400	3436.9929	0.2940	0.0789
45	102.1890	0.8000	13590.7200	3766.9114	0.3120	0.0865
46	102.2140	0.8250	14374.8000	4116.4346	0.3300	0.0945
47	102.2390	0.8500	15158.8800	4485.5622	0.3480	0.1030
48	102.2640	0.8750	15942.9600	4874.2940	0.3660	0.1119
49	102.2890	0.9000	16727.0400	5282.6298	0.3840	0.1213
50	108.4500	7.0610	16727.0400	108337.9232	0.3840	2.4871

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| Variable storage data for node | AS-5
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	101.7010	0.0000	4.3560	0.0000	0.0001	0.0000
2	101.7260	0.0250	150.8265	1.5068	0.0035	0.0000
3	101.7510	0.0500	297.2970	7.0058	0.0068	0.0002
4	101.7760	0.0750	443.7675	16.2082	0.0102	0.0004
5	101.8010	0.1000	590.2380	29.0898	0.0135	0.0007
6	101.8260	0.1250	736.7085	45.6428	0.0169	0.0010
7	101.8510	0.1500	883.1790	65.8638	0.0203	0.0015
8	101.8760	0.1750	1029.6495	89.7507	0.0236	0.0021
9	101.9010	0.2000	1176.1200	117.3026	0.0270	0.0027
10	101.9260	0.2250	1475.5950	150.3783	0.0339	0.0035
11	101.9510	0.2500	1775.0700	190.9540	0.0408	0.0044
12	101.9760	0.2750	2074.5450	239.0256	0.0476	0.0055
13	102.0010	0.3000	2374.0200	294.5906	0.0545	0.0068
14	102.0260	0.3250	2673.4950	357.6475	0.0614	0.0082
15	102.0510	0.3500	2972.9700	428.1952	0.0683	0.0098
16	102.0760	0.3750	3272.4450	506.2330	0.0751	0.0116
17	102.1010	0.4000	3571.9200	591.7602	0.0820	0.0136
18	102.1135	0.4125	3773.3850	637.6626	0.0866	0.0146
19	102.1260	0.4250	3974.8500	686.0836	0.0912	0.0158
20	102.1385	0.4375	4176.3150	737.0232	0.0959	0.0169
21	102.1510	0.4500	4377.7800	790.4814	0.1005	0.0181
22	102.1635	0.4625	4579.2450	846.4581	0.1051	0.0194
23	102.1760	0.4750	4780.7100	904.9533	0.1098	0.0208
24	102.1885	0.4875	4982.1750	965.9670	0.1144	0.0222
25	102.2010	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	102.2135	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	102.2260	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	102.2385	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	102.2510	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	102.2635	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	102.2760	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	102.2885	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	102.3010	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	102.3135	0.6125	7900.6950	1761.8875	0.1814	0.0404
35	102.3260	0.6250	8265.5100	1862.9177	0.1897	0.0428
36	102.3385	0.6375	8630.3250	1968.5084	0.1981	0.0452
37	102.3510	0.6500	8995.1400	2078.6597	0.2065	0.0477
38	102.3635	0.6625	9359.9550	2193.3715	0.2149	0.0504
39	102.3760	0.6750	9724.7700	2312.6438	0.2233	0.0531
40	102.3885	0.6875	10089.5850	2436.4765	0.2316	0.0559

41	102.4010	0.7000	10454.4000	2564.8697	0.2400	0.0589
42	102.4260	0.7250	11238.4800	2835.9716	0.2580	0.0651
43	102.4510	0.7500	12022.5600	3126.6795	0.2760	0.0718
44	102.4760	0.7750	12806.6400	3436.9929	0.2940	0.0789
45	102.5010	0.8000	13590.7200	3766.9114	0.3120	0.0865
46	102.5260	0.8250	14374.8000	4116.4346	0.3300	0.0945
47	102.5510	0.8500	15158.8800	4485.5622	0.3480	0.1030
48	102.5760	0.8750	15942.9600	4874.2940	0.3660	0.1119
49	102.6010	0.9000	16727.0400	5282.6298	0.3840	0.1213
50	111.9700	10.2690	16727.0400	161998.2676	0.3840	3.7190

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| Variable storage data for node | AS-4
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	102.3110	0.0000	4.3560	0.0000	0.0001	0.0000
2	102.3360	0.0250	150.8265	1.5068	0.0035	0.0000
3	102.3610	0.0500	297.2970	7.0058	0.0068	0.0002
4	102.3860	0.0750	443.7675	16.2082	0.0102	0.0004
5	102.4110	0.1000	590.2380	29.0898	0.0135	0.0007
6	102.4360	0.1250	736.7085	45.6428	0.0169	0.0010
7	102.4610	0.1500	883.1790	65.8638	0.0203	0.0015
8	102.4860	0.1750	1029.6495	89.7507	0.0236	0.0021
9	102.5110	0.2000	1176.1200	117.3026	0.0270	0.0027
10	102.5360	0.2250	1475.5950	150.3783	0.0339	0.0035
11	102.5610	0.2500	1775.0700	190.9540	0.0408	0.0044
12	102.5860	0.2750	2074.5450	239.0256	0.0476	0.0055
13	102.6110	0.3000	2374.0200	294.5906	0.0545	0.0068
14	102.6360	0.3250	2673.4950	357.6475	0.0614	0.0082
15	102.6610	0.3500	2972.9700	428.1952	0.0683	0.0098
16	102.6860	0.3750	3272.4450	506.2330	0.0751	0.0116
17	102.7110	0.4000	3571.9200	591.7602	0.0820	0.0136
18	102.7235	0.4125	3773.3850	637.6626	0.0866	0.0146
19	102.7360	0.4250	3974.8500	686.0836	0.0912	0.0158
20	102.7485	0.4375	4176.3150	737.0232	0.0959	0.0169
21	102.7610	0.4500	4377.7800	790.4814	0.1005	0.0181
22	102.7735	0.4625	4579.2450	846.4581	0.1051	0.0194
23	102.7860	0.4750	4780.7100	904.9533	0.1098	0.0208
24	102.7985	0.4875	4982.1750	965.9670	0.1144	0.0222
25	102.8110	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	102.8235	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	102.8360	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	102.8485	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	102.8610	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	102.8735	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	102.8860	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	102.8985	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	102.9110	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	102.9235	0.6125	7900.6950	1761.8875	0.1814	0.0404
35	102.9360	0.6250	8265.5100	1862.9177	0.1897	0.0428
36	102.9485	0.6375	8630.3250	1968.5084	0.1981	0.0452
37	102.9610	0.6500	8995.1400	2078.6597	0.2065	0.0477
38	102.9735	0.6625	9359.9550	2193.3715	0.2149	0.0504
39	102.9860	0.6750	9724.7700	2312.6438	0.2233	0.0531
40	102.9985	0.6875	10089.5850	2436.4765	0.2316	0.0559
41	103.0110	0.7000	10454.4000	2564.8697	0.2400	0.0589
42	103.0360	0.7250	11238.4800	2835.9716	0.2580	0.0651
43	103.0610	0.7500	12022.5600	3126.6795	0.2760	0.0718
44	103.0860	0.7750	12806.6400	3436.9929	0.2940	0.0789
45	103.1110	0.8000	13590.7200	3766.9114	0.3120	0.0865
46	103.1360	0.8250	14374.8000	4116.4346	0.3300	0.0945
47	103.1610	0.8500	15158.8800	4485.5622	0.3480	0.1030
48	103.1860	0.8750	15942.9600	4874.2940	0.3660	0.1119
49	103.2110	0.9000	16727.0400	5282.6298	0.3840	0.1213
50	112.7300	10.4190	16727.0400	164507.3236	0.3840	3.7766

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| Variable storage data for node | AS-3
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	103.0110	0.0000	4.3560	0.0000	0.0001	0.0000
2	103.0360	0.0250	150.8265	1.5068	0.0035	0.0000
3	103.0610	0.0500	297.2970	7.0058	0.0068	0.0002
4	103.0860	0.0750	443.7675	16.2082	0.0102	0.0004
5	103.1110	0.1000	590.2380	29.0898	0.0135	0.0007
6	103.1360	0.1250	736.7085	45.6428	0.0169	0.0010
7	103.1610	0.1500	883.1790	65.8638	0.0203	0.0015
8	103.1860	0.1750	1029.6495	89.7507	0.0236	0.0021
9	103.2110	0.2000	1176.1200	117.3026	0.0270	0.0027
10	103.2360	0.2250	1475.5950	150.3783	0.0339	0.0035
11	103.2610	0.2500	1775.0700	190.9540	0.0408	0.0044
12	103.2860	0.2750	2074.5450	239.0256	0.0476	0.0055
13	103.3110	0.3000	2374.0200	294.5906	0.0545	0.0068
14	103.3360	0.3250	2673.4950	357.6475	0.0614	0.0082
15	103.3610	0.3500	2972.9700	428.1952	0.0683	0.0098
16	103.3860	0.3750	3272.4450	506.2330	0.0751	0.0116
17	103.4110	0.4000	3571.9200	591.7602	0.0820	0.0136
18	103.4235	0.4125	3773.3850	637.6626	0.0866	0.0146
19	103.4360	0.4250	3974.8500	686.0836	0.0912	0.0158
20	103.4485	0.4375	4176.3150	737.0232	0.0959	0.0169
21	103.4610	0.4500	4377.7800	790.4814	0.1005	0.0181
22	103.4735	0.4625	4579.2450	846.4581	0.1051	0.0194
23	103.4860	0.4750	4780.7100	904.9533	0.1098	0.0208
24	103.4985	0.4875	4982.1750	965.9670	0.1144	0.0222
25	103.5110	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	103.5235	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	103.5360	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	103.5485	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	103.5610	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	103.5735	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	103.5860	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	103.5985	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	103.6110	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	103.6235	0.6125	7900.6950	1761.8875	0.1814	0.0404
35	103.6360	0.6250	8265.5100	1862.9177	0.1897	0.0428
36	103.6485	0.6375	8630.3250	1968.5084	0.1981	0.0452
37	103.6610	0.6500	8995.1400	2078.6597	0.2065	0.0477
38	103.6735	0.6625	9359.9550	2193.3715	0.2149	0.0504
39	103.6860	0.6750	9724.7700	2312.6438	0.2233	0.0531
40	103.6985	0.6875	10089.5850	2436.4765	0.2316	0.0559
41	103.7110	0.7000	10454.4000	2564.8697	0.2400	0.0589
42	103.7360	0.7250	11238.4800	2835.9716	0.2580	0.0651
43	103.7610	0.7500	12022.5600	3126.6795	0.2760	0.0718
44	103.7860	0.7750	12806.6400	3436.9929	0.2940	0.0789
45	103.8110	0.8000	13590.7200	3766.9114	0.3120	0.0865
46	103.8360	0.8250	14374.8000	4116.4346	0.3300	0.0945
47	103.8610	0.8500	15158.8800	4485.5622	0.3480	0.1030
48	103.8860	0.8750	15942.9600	4874.2940	0.3660	0.1119
49	103.9110	0.9000	16727.0400	5282.6298	0.3840	0.1213
50	113.5300	10.5190	16727.0400	166180.0276	0.3840	3.8150

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| Variable storage data for node | AS-2
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	103.8110	0.0000	4.3560	0.0000	0.0001	0.0000
2	103.8360	0.0250	150.8265	1.5068	0.0035	0.0000
3	103.8610	0.0500	297.2970	7.0058	0.0068	0.0002
4	103.8860	0.0750	443.7675	16.2082	0.0102	0.0004
5	103.9110	0.1000	590.2380	29.0898	0.0135	0.0007
6	103.9360	0.1250	736.7085	45.6428	0.0169	0.0010
7	103.9610	0.1500	883.1790	65.8638	0.0203	0.0015
8	103.9860	0.1750	1029.6495	89.7507	0.0236	0.0021
9	104.0110	0.2000	1176.1200	117.3026	0.0270	0.0027
10	104.0360	0.2250	1475.5950	150.3783	0.0339	0.0035
11	104.0610	0.2500	1775.0700	190.9540	0.0408	0.0044
12	104.0860	0.2750	2074.5450	239.0256	0.0476	0.0055
13	104.1110	0.3000	2374.0200	294.5906	0.0545	0.0068
14	104.1360	0.3250	2673.4950	357.6475	0.0614	0.0082
15	104.1610	0.3500	2972.9700	428.1952	0.0683	0.0098
16	104.1860	0.3750	3272.4450	506.2330	0.0751	0.0116
17	104.2110	0.4000	3571.9200	591.7602	0.0820	0.0136
18	104.2235	0.4125	3773.3850	637.6626	0.0866	0.0146
19	104.2360	0.4250	3974.8500	686.0836	0.0912	0.0158
20	104.2485	0.4375	4176.3150	737.0232	0.0959	0.0169
21	104.2610	0.4500	4377.7800	790.4814	0.1005	0.0181
22	104.2735	0.4625	4579.2450	846.4581	0.1051	0.0194
23	104.2860	0.4750	4780.7100	904.9533	0.1098	0.0208
24	104.2985	0.4875	4982.1750	965.9670	0.1144	0.0222
25	104.3110	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	104.3235	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	104.3360	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	104.3485	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	104.3610	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	104.3735	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	104.3860	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	104.3985	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	104.4110	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	104.4235	0.6125	7900.6950	1761.8875	0.1814	0.0404
35	104.4360	0.6250	8265.5100	1862.9177	0.1897	0.0428
36	104.4485	0.6375	8630.3250	1968.5084	0.1981	0.0452
37	104.4610	0.6500	8995.1400	2078.6597	0.2065	0.0477
38	104.4735	0.6625	9359.9550	2193.3715	0.2149	0.0504
39	104.4860	0.6750	9724.7700	2312.6438	0.2233	0.0531
40	104.4985	0.6875	10089.5850	2436.4765	0.2316	0.0559
41	104.5110	0.7000	10454.4000	2564.8697	0.2400	0.0589
42	104.5360	0.7250	11238.4800	2835.9716	0.2580	0.0651
43	104.5610	0.7500	12022.5600	3126.6795	0.2760	0.0718
44	104.5860	0.7750	12806.6400	3436.9929	0.2940	0.0789
45	104.6110	0.8000	13590.7200	3766.9114	0.3120	0.0865
46	104.6360	0.8250	14374.8000	4116.4346	0.3300	0.0945
47	104.6610	0.8500	15158.8800	4485.5622	0.3480	0.1030
48	104.6860	0.8750	15942.9600	4874.2940	0.3660	0.1119
49	104.7110	0.9000	16727.0400	5282.6298	0.3840	0.1213
50	114.6300	10.8190	16727.0400	171198.1396	0.3840	3.9302

Variable storage data for node | AN-1

Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	103.8800	0.0000	4.3560	0.0000	0.0001	0.0000
2	103.9050	0.0250	150.8265	1.5068	0.0035	0.0000
3	103.9300	0.0500	297.2970	7.0058	0.0068	0.0002
4	103.9550	0.0750	443.7675	16.2082	0.0102	0.0004
5	103.9800	0.1000	590.2380	29.0898	0.0135	0.0007
6	104.0050	0.1250	736.7085	45.6428	0.0169	0.0010
7	104.0300	0.1500	883.1790	65.8638	0.0203	0.0015
8	104.0550	0.1750	1029.6495	89.7507	0.0236	0.0021
9	104.0800	0.2000	1176.1200	117.3026	0.0270	0.0027
10	104.1050	0.2250	1475.5950	150.3783	0.0339	0.0035
11	104.1300	0.2500	1775.0700	190.9540	0.0408	0.0044
12	104.1550	0.2750	2074.5450	239.0256	0.0476	0.0055
13	104.1800	0.3000	2374.0200	294.5906	0.0545	0.0068
14	104.2050	0.3250	2673.4950	357.6475	0.0614	0.0082
15	104.2300	0.3500	2972.9700	428.1952	0.0683	0.0098
16	104.2550	0.3750	3272.4450	506.2330	0.0751	0.0116
17	104.2800	0.4000	3571.9200	591.7602	0.0820	0.0136
18	104.2925	0.4125	3773.3850	637.6626	0.0866	0.0146
19	104.3050	0.4250	3974.8500	686.0836	0.0912	0.0158
20	104.3175	0.4375	4176.3150	737.0232	0.0959	0.0169
21	104.3300	0.4500	4377.7800	790.4814	0.1005	0.0181
22	104.3425	0.4625	4579.2450	846.4581	0.1051	0.0194
23	104.3550	0.4750	4780.7100	904.9533	0.1098	0.0208
24	104.3675	0.4875	4982.1750	965.9670	0.1144	0.0222
25	104.3800	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	104.3925	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	104.4050	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	104.4175	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	104.4300	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	104.4425	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	104.4550	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	104.4675	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	104.4800	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	104.4925	0.6125	7900.6950	1761.8875	0.1814	0.0404
35	104.5050	0.6250	8265.5100	1862.9177	0.1897	0.0428
36	104.5175	0.6375	8630.3250	1968.5084	0.1981	0.0452
37	104.5300	0.6500	8995.1400	2078.6597	0.2065	0.0477
38	104.5425	0.6625	9359.9550	2193.3715	0.2149	0.0504
39	104.5550	0.6750	9724.7700	2312.6438	0.2233	0.0531
40	104.5675	0.6875	10089.5850	2436.4765	0.2316	0.0559
41	104.5800	0.7000	10454.4000	2564.8697	0.2400	0.0589
42	104.6050	0.7250	11238.4800	2835.9716	0.2580	0.0651
43	104.6300	0.7500	12022.5600	3126.6795	0.2760	0.0718
44	104.6550	0.7750	12806.6400	3436.9929	0.2940	0.0789
45	104.6800	0.8000	13590.7200	3766.9114	0.3120	0.0865
46	104.7050	0.8250	14374.8000	4116.4346	0.3300	0.0945
47	104.7300	0.8500	15158.8800	4485.5622	0.3480	0.1030
48	104.7550	0.8750	15942.9600	4874.2940	0.3660	0.1119
49	104.7800	0.9000	16727.0400	5282.6298	0.3840	0.1213
50	113.0000	9.1200	16727.0400	142778.8986	0.3840	3.2778

FREE OUTFALL DATA (DATA GROUP I1)
BOUNDARY CONDITION ON DATA GROUP J1

Outfall at Junction....6325 has boundary condition number... 1

INTERNAL CONNECTIVITY INFORMATION

CONDUIT	JUNCTION	JUNCTION
FREE # 1	6325	BOUNDARY

Boundary Condition Information
Data Groups J1-J4

Outlet: 6325
Downstream Rating Curve Information
for Boundary Condition = 1.

No.	Flow(cfs)	Depth(ft)	No.	Flow(cfs)	Depth(ft)	No.	Flow(cfs)	Depth(ft)
1	0.00	0.000	2	600.00	7.070	3	890.00	8.480
4	1100.00	9.090	5	1530.00	9.550			

XP Note Field Summary

Table E9 - JUNCTION SUMMARY STATISTICS
The Maximum area is only the area of the node, it does not include the area of the surrounding conduits

Junction Name	Ground Elevation feet	Uppermost PipeCrown Elevation feet	Maximum Junction Elevation feet	Time of Occurence Hr.	Min.	Feet of Surcharge at Max Elevation	Freeboard of node feet	Maximum Junction Area ft^2	Maximum Gutter Depth feet	Maximum Gutter Width feet	Maximum Gutter Velocity ft/s
6863.3	112.5300	112.5200	108.5784	16	55	0.0000	3.9516	12.5660	0.0000	0.0000	0.0000
7253.3	112.5600	112.5600	108.8723	16	57	0.0000	3.6877	12.5660	0.0000	0.0000	0.0000
7185	112.5300	112.5200	108.6844	16	56	0.0000	3.8456	12.5660	0.0000	0.0000	0.0000
6325	111.0900	111.0900	107.0155	16	55	0.0000	4.0745	12.5660	0.0000	0.0000	0.0000
7216.8	112.5300	112.5300	108.7209	16	56	0.0000	3.8091	12.5660	0.0000	0.0000	0.0000
7185(ml)	112.5300	112.5200	108.6643	16	56	0.0000	3.8657	12.5660	0.0000	0.0000	0.0000
AN-7	108.5500	105.3190	108.7197	16	48	3.4007	0.0000	998.6817	0.0000	0.0000	0.0000
BN-1	107.8200	103.3620	109.1335	16	54	5.7715	0.0000	16727.040	0.0000	0.0000	0.0000
AN-J7	109.1800	105.5540	108.8133	16	48	3.2593	0.3667	12.5660	0.0000	0.0000	0.0000
BN-J1	108.5200	103.6350	109.1732	16	54	5.5382	0.0000	9608.2940	0.0000	0.0000	0.0000
AN-J6	109.9600	105.8290	108.9947	16	30	3.1657	0.9653	12.5660	0.0000	0.0000	0.0000
BN-2	107.5200	103.9710	109.2207	16	54	5.2497	0.0000	16727.040	0.0000	0.0000	0.0000
AN-6	109.3800	106.1790	109.4451	15	55	3.2661	0.0000	386.1302	0.0000	0.0000	0.0000
BN-J2	107.5100	104.1950	109.2329	16	55	5.0379	0.0000	28002.937	0.0000	0.0000	0.0000
AN-J5	110.3600	106.4310	110.0423	15	55	3.6113	0.3177	12.5660	0.0000	0.0000	0.0000
BN-3	106.1700	104.4200	109.2420	16	54	4.8220	0.0000	16727.040	0.0000	0.0000	0.0000
AN-5	110.3600	106.6810	110.3927	15	55	3.7117	0.0000	196.1056	0.0000	0.0000	0.0000
AN-4	111.0400	106.0810	110.8463	16	15	4.7653	0.1937	12.5660	0.0000	0.0000	0.0000
AN-J4	111.9400	106.3810	111.2019	16	15	4.8209	0.7381	12.5660	0.0000	0.0000	0.0000
AN-3	111.6400	106.6810	111.6089	15	55	4.9279	0.0311	12.5660	0.0000	0.0000	0.0000
AN-J3	112.3900	106.9300	111.8261	15	55	4.8961	0.5639	12.5660	0.0000	0.0000	0.0000
AN-2	111.9400	107.1810	111.9887	15	55	4.8077	0.0000	290.0777	0.0000	0.0000	0.0000
AS-8	110.0000	104.2310	108.7325	16	51	4.5015	1.2675	12.5660	0.0000	0.0000	0.0000
BS-1	109.1900	104.2890	108.7350	16	51	4.4460	0.4550	12.5660	0.0000	0.0000	0.0000
AS-7	110.0000	104.6110	108.8418	16	48	4.2308	1.1582	12.5660	0.0000	0.0000	0.0000
BS-J1	109.4500	104.0640	108.8144	16	49	4.7504	0.6356	12.5660	0.0000	0.0000	0.0000
AS-J7	111.6200	104.9360	109.0864	16	15	4.1504	2.5336	12.5660	0.0000	0.0000	0.0000
BS-2	108.9000	104.3390	108.9201	16	36	4.5811	0.0000	122.3168	0.0000	0.0000	0.0000
AS-6	111.6500	105.2610	109.4100	16	15	4.1490	2.2400	12.5660	0.0000	0.0000	0.0000
BS-J2	109.2700	104.1140	109.0242	16	32	4.5102	0.2458	12.5660	0.0000	0.0000	0.0000
AS-J6	112.7500	105.4810	109.6623	16	15	4.1813	3.0877	12.5660	0.0000	0.0000	0.0000
BS-3	108.4500	104.3890	109.1382	16	28	4.7492	0.0000	10110.151	0.0000	0.0000	0.0000
AS-5	111.9700	105.7010	109.9138	16	15	4.2128	2.0562	12.5660	0.0000	0.0000	0.0000
AS-J5	113.0100	106.0060	110.1229	16	15	4.1169	2.8871	12.5660	0.0000	0.0000	0.0000
AS-4	112.7300	106.3110	110.3294	16	15	4.0184	2.4006	12.5660	0.0000	0.0000	0.0000
AS-J4	113.7800	106.6610	110.5142	16	15	3.8532	3.2658	12.5660	0.0000	0.0000	0.0000
AS-3	113.5300	107.0110	110.6945	16	15	3.6835	2.8355	12.5660	0.0000	0.0000	0.0000
AS-J3	115.1300	107.4110	110.7420	16	15	3.3310	4.3880	12.5660	0.0000	0.0000	0.0000
AS-2	114.6300	107.8110	110.7840	16	15	2.9730	3.8460	12.5660	0.0000	0.0000	0.0000
A-R1	109.5000	109.4400	108.8236	17	14	0.0000	0.6764	12.5660	0.0000	0.0000	0.0000
RD-2	109.5000	108.2960	108.8099	17	13	0.5139	0.6901	12.5660	0.0000	0.0000	0.0000
RD-5	109.5000	107.1150	108.7611	17	10	1.6461	0.7389	12.5660	0.0000	0.0000	0.0000
RD-6	109.5000	105.8900	108.7277	17	10	2.8377	0.7723	12.5660	0.0000	0.0000	0.0000
RD-7	109.5000	104.8360	108.6896	17	10	3.8536	0.8104	12.5660	0.0000	0.0000	0.0000
RD-8	109.5000	104.9360	108.7498	16	57	3.8138	0.7502	12.5660	0.0000	0.0000	0.0000
RD-3	109.5000	107.7880	108.8026	17	13	1.0146	0.6974	12.5660	0.0000	0.0000	0.0000
RD-4	109.5000	107.7280	108.7712	17	10	1.0432	0.7288	12.5660	0.0000	0.0000	0.0000
RD-9	109.5000	104.2880	109.5772	17	28	5.2892	0.0000	5401.0576	0.0000	0.0000	0.0000
BR-1	109.5000	105.3750	110.3174	17	34	4.9424	0.0000	11323.085	0.0000	0.0000	0.0000
AN-1	113.0000	107.8800	113.0895	15	54	5.2095	0.0000	526.9709	0.0000	0.0000	0.0000

Table E10 - CONDUIT SUMMARY STATISTICS
Note: The peak flow may be less than the design flow and the conduit may still surcharge because of the downstream boundary conditions.

* denotes an open conduit that has been overtopped this is a potential source of severe errors

Conduit Name	Design Flow (cfs)	Conduit Design Velocity (ft/s)	Maximum Vertical Depth (in)	Maximum Computed Flow (cfs)	Time of Occurence Hr.	Min.	Maximum Computed Velocity (ft/s)	Time of Occurence Hr.	Min.	Ratio of Max. to Design Flow	Maximum Water Elev at Pipe Ends Upstream (ft)	Dwnstrm (ft)	Ratio d/D US	DS
Link587	15335.31	1.7196	157.0800	950.3303	17	0	5.7559	15	21	0.0620	108.8723	108.7209	0.718	0.709
Link588	1599.049	0.0000	168.8400	975.1483	17	37	1.9358	18	15	0.6098	108.6844	108.6643	0.727	0.726
Link590	9472.859	1.8410	159.1200	1189.272	16	55	3.3317	24	29	0.1255	108.5784	107.0155	0.764	0.693
Link655	94380.55	10.5833	157.0800	950.4070	17	0	5.6519	15	18	0.0101	108.7209	108.6844	0.709	0.782
Link665	1599.049	0.0000	168.8400	1016.902	17	14	1.9886	18	10	0.6359	108.6643	108.5784	0.726	0.720
L_AN15	192.7133	4.8178	60.0000	235.1595	16	15	5.8625	16	15	1.2203	108.7197	108.5784	1.680	1.716
L_BN14	57.8743	3.6171	48.0000	76.6197	16	28	4.7571	16	28	1.3239	109.1335	108.5784	2.443	2.395
L_AN14	192.5298	4.8132	60.0000	201.2176	16	15	5.0159	16	15	1.0451	108.8135	108.7197	1.652	1.680
L_BN1	139.9048	4.3720	48.0000	54.5101	16	44	1.6916	16	44	0.3896	109.1732	109.1335	2.385	2.443
L_AN13	192.7303	4.8183	60.0000	201.2171	16	15	5.0158	16	15	1.0440	108.9948	108.8133	1.633	1.652
L_BN2	140.2619	4.3832	48.0000	56.7285	16	38	1.7612	16	38	0.4044	109.2207	109.1732	2.312	2.385
L_AN12	192.6903	4.8173	60.0000	201.2057	16	15	5.0154	16	15	1.0442	109.4451	108.9947	1.653	1.633
L_BN3	118.6932	4.2390	48.0000	28.3653	17	47	1.0075	17	47	0.2390	109.2329	109.2207	2.259	2.312
L_AN11	133.5364	4.4512	60.0000	181.4514	16	15	6.0298	16	15	1.3588	110.0425	109.4452	1.722	1.653
L_BN4	118.7782	4.2421	48.0000	29.8108	16	35	1.0584	16	35	0.2510	109.2420	109.2329	2.205	2.259
L_AN10	133.1924	4.4397	60.0000	181.4174	16	15	6.0274	16	15	1.3621	110.3927	110.0423	1.742	1.722
L_AN9	118.9301	4.2475	48.0000	164.5062	16	15	5.8418	16	15	1.3832	110.8463	110.3927	2.191	2.178
L_AN8	118.8979	4.2464	48.0000	128.9259	16	15	4.5771	16	15	1.0843	111.2019	110.8465	2.205	2.191
L_AN7	118.8345	4.2441	48.0000	128.8236	16	15	4.5732	16	15	1.0841	111.6088	111.2020	2.232	2.205
L_AN6	97.8054	4.0752	48.0000	85.4694	16	15	3.5402	16	15	0.8739	111.8260	111.6089	2.224	2.232
L_AN5	98.1062	4.0878	48.0000	85.3866	16	15	3.5367	16	15	0.8703	111.9887	111.8261	2.202	2.224
L_AS16	98.0707	4.0863	48.0000	132.1191	16	15	5.4783	16	15	1.3472	108.7326	108.6643	2.125	2.166
L_BS11	45.3852	3.6116	48.0000	52.3273	16	3	4.1441	16	3	1.1530	108.7351	108.6643	2.112	2.166
L_AS15	97.9657	4.0819	48.0000	119.0113	16	15	4.9337	16	15	1.2148	108.8419	108.7325	2.058	2.125
L_BS1	31.8156	3.3068	42.0000	36.0179	16	3	3.7192	16	3	1.1321	108.8144	108.7350	2.357	2.413
L_AS14	97.9657	4.0819	48.0000	98.1963	16	15	4.0704	16	15	1.0024	109.0864	108.8418	2.038	2.058
L_BS2	31.8156	3.3068	42.0000	36.0386	16	3	3.7209	16	3	1.1327	108.9201	108.8144	2.309	2.357
L_AS13	97.9657	4.0819	48.0000	98.1842	16	15	4.0699	16	15	1.0022	109.4100	109.0864	2.037	2.038
L_BS3	21.0919	2.9839	36.0000	18.5245	16	3	2.5977	16	3	0.8783	109.0242	108.9201	2.637	2.694

L_AS12	77.5551	3.8778	48.0000	83.3847	16	15	4.1476	16	15	1.0752	109.6623	109.4099	2.045	2.037	
L_BS4	21.0919	2.9839	36.0000	18.5445	16	3	2.6009	16	3	0.8792	109.1382	109.0242	2.583	2.637	
L_AS11	77.5551	3.8778	48.0000	83.3602	16	15	4.1462	16	15	1.0749	109.9138	109.6622	2.053	2.045	
L_AS10	77.5551	3.8778	48.0000	64.3030	16	15	3.1985	16	15	0.8291	110.1229	109.9138	2.029	2.053	
L_AS9	77.5551	3.8778	48.0000	64.2645	16	15	3.1970	16	15	0.8286	110.3294	110.1228	2.005	2.029	
L_AS8	57.8356	3.6147	48.0000	43.3637	15	55	2.7049	15	55	0.7498	110.5142	110.3294	1.963	2.005	
L_AS7	57.8356	3.6147	48.0000	42.7368	15	55	2.6664	15	55	0.7389	110.6945	110.5141	1.921	1.963	
L_AS6	57.8356	3.6147	48.0000	21.6193	15	55	1.3495	15	55	0.3738	110.7420	110.6945	1.833	1.921	
L_AS5	57.8356	3.6147	48.0000	19.8640	15	55	1.4312	15	37	0.3435	110.7840	110.7421	1.743	1.833	
L-RD-1	121.3877	2.1676	48.0000	13.0741	17	49	1.1418	15	54	0.1077	108.8236	108.8099	0.846	1.128	*
L-RD-2	121.3877	2.1676	48.0000	18.6618	17	59	1.0969	15	44	0.1537	108.8099	108.8026	1.128	1.254	*
L-RD-5	121.3877	2.1676	48.0000	-45.9203	16	22	-0.8433	16	11	-0.3783	108.7611	108.7277	1.412	1.709	*
L-RD-6	121.3877	2.1676	48.0000	-77.7400	16	13	-1.3882	16	13	-0.6404	108.7277	108.6896	1.709	1.963	*
L-RD-7	121.3877	2.1676	48.0000	-104.079	16	5	-1.8586	16	5	-0.8574	108.6896	108.6844	1.963	2.090	*
Link649	16.8718	1.3426	48.0000	7.2675	16	2	0.6788	36	0	0.4308	108.7498	108.6844	1.953	2.096	
L-RD-3	12.9708	2.6424	30.0000	20.5139	18	4	4.1577	18	4	1.5816	108.8026	108.7712	2.006	2.017	
L-RD-4	121.3877	2.1676	48.0000	-23.0257	16	24	1.1069	15	33	-0.1897	108.7712	108.7611	1.261	1.412	*
Link652	7.1538	2.2771	24.0000	7.3069	16	2	2.2958	16	2	1.0214	109.5772	108.7498	3.645	3.907	
Link653	7.1538	2.2771	24.0000	7.3466	16	2	2.3083	16	2	1.0270	110.3174	109.5772	3.471	3.645	
L_AN4	57.9601	3.6225	48.0000	42.8587	16	15	2.6815	15	56	0.7395	113.0892	111.9888	2.302	2.202	
FREE # 1	Undefnd	Undefnd	Undefn	1189.272	16	55									

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| Table E14 - Natural Channel Overbank Flow Information |
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Conduit Name	<---- Maximum Velocity -----> Left Velocity	Center Velocity	Right Velocity	<------ Maximum Flow -------> Left Flow	Center Flow	Right Flow	<------ Maximum Area ------> Left Area	Center Area	Right Area	<--- Max. Storage Volume ---> Left Area	Center Area	Right Area	Maximum Depth
Link587	1.3043	3.9201	0.4087	64.4886	740.6017	145.2401	49.4449	188.9229	355.3393	1804.7400	6895.6842	12969.883	9.3477
Link588	0.0000	1.7592	0.0576	0.0000	974.4823	0.6660	0.0000	553.9233	11.5632	0.0000	38774.628	809.4259	10.2254
Link590	0.2979	2.9753	0.2756	16.4542	1163.1564	9.6616	55.2379	390.9390	35.0527	30993.995	210442.46	18258.929	9.8537
Link655	0.3186	2.3552	0.4396	36.2422	488.7901	425.3747	113.7452	207.5409	967.5854	3617.0964	6599.7992	30769.215	9.8702
Link665	0.0000	1.8498	0.0484	0.0000	1016.6518	0.2502	0.0000	549.5952	5.1667	0.0000	138333.11	1300.4636	10.1756

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| Table E14a - Natural Channel Encroachment Information |
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Conduit Name	<------- Existing Conveyance Condition -------> Left Bank	Centre Channel	Right Bank	Total	<----- Encroachment Conveyance Condition -----> Left Station	Right Station	Left Bank	Centre Channel	Right Bank	Total	<- % Volume --> Left Station	Right Station	<-- Encroachment Data --> Reduction Left	Reduction Right	Depth Incr.	Method
Link587	1393.4	16001.7	3138.1	20533.1	4955.1	6443.1	1393.4	16001.7	3138.1	20533.1	4955.1	6443.1	0.0000	0.0000	0.0000	None
Link588	0.0000	54968.3	37.569	55005.9	4954.8	5894.7	0.0000	54968.3	37.569	55005.9	4954.8	5894.7	0.0000	0.0000	0.0000	None
Link590	403.72	28539.0	237.06	29179.8	4957.1	5386.9	403.72	28539.0	237.06	29179.8	4957.1	5386.9	0.0000	0.0000	0.0000	None
Link655	1324.1	17858.5	15541.5	34724.2	4953.6	6446.8	1324.1	17858.5	15541.5	34724.2	4953.6	6446.8	0.0000	0.0000	0.0000	None
Link665	0.0000	54378.6	13.384	54391.9	4954.9	5893.4	0.0000	54378.6	13.384	54391.9	4954.9	5893.4	0.0000	0.0000	0.0000	None

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| Table E14b - Floodplain Mapping |
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Conduit Name	Upstream WS Elev.	Downstream WS Elev.	Channel Length	Center Station	<----- Left Offsets Natural	Encroach	------> Bank	<----- Right Offsets Natural	Encroach	------> Bank	<- Channel Widths-> Total	Encroach.
Link587	108.8723	108.7209	36.5000	5000.1000	44.9843	44.9843	19.0000	1442.9501	1442.9501	22.3000	1487.9344	1487.9344
Link588	108.6844	108.6643	70.0000	4999.3000	44.5483	44.5483	56.4000	895.3840	895.3840	58.3000	939.9323	939.9323
Link590	108.5784	107.0155	538.3000	4997.8000	40.7246	40.7246	41.9000	389.1420	389.1420	58.1000	429.8666	429.8666
Link655	108.7209	108.6844	31.8000	5000.1000	46.5152	46.5152	19.0000	1446.6516	1446.6516	22.3000	1493.1668	1493.1668
Link665	108.6643	108.5784	251.7000	4999.3000	44.4031	44.4031	56.4000	894.1408	894.1408	58.3000	938.5439	938.5439

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| Table E15 - SPREADSHEET INFO LIST |
| Conduit Flow and Junction Depth Information for use in |
| spreadsheets. The maximum values in this table are the |
| true maximum values because they sample every time step. |
| The values in the review results may only be the |
| maximum of a subset of all the time steps in the run. |
| Note: These flows are only the flows in a single barrel. |
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Conduit Name	Maximum Flow (cfs)	Total Flow (ft^3)	Maximum Velocity (ft/s)	Maximum Volume (ft^3)	##	Junction Name	Invert Elevation (ft)	Maximum Elevation (ft)
Link587	950.3303	29492947.60	5.7559	21670.3076	##	6863.3	98.4500	108.5784
Link588	975.1483	30010663.51	1.9358	39584.0542	##	7253.3	99.4700	108.8723
Link590	1189.2723	32787243.14	3.3317	259695.3847	##	7185	98.4500	108.6844
Link655	950.4070	29493002.86	5.6519	40986.1107	##	6325	97.8300	107.0155
Link665	1016.9020	30868903.52	1.9886	139633.5720	##	7216.8	99.4400	108.7209
L_AN15	235.1595	1261359.510	5.8625	12802.6092	##	7185(ml)	98.4500	108.6643
L_BN14	76.6197	668481.4345	4.7571	5824.5894	##	AN-7	100.3190	108.7197
L_AN14	201.2176	1102233.945	5.0159	9447.7000	##	BN-1	99.3620	109.1335
L_BN1	54.5101	482465.4957	1.6916	8826.8404	##	AN-J7	100.5540	108.8133
L_AN13	201.2171	1102176.846	5.0158	11031.2771	##	BN-J1	99.6350	109.1732
L_BN2	56.7285	484635.8333	1.7612	10805.4248	##	AN-J6	100.8290	108.9947
L_AN12	201.2057	1102136.680	5.0154	14044.3192	##	BN-2	99.9710	109.2207
L_BN3	28.3653	223217.7873	1.0075	6331.5335	##	AN-6	101.1790	109.4451
L_AN11	181.4514	1009317.823	6.0298	7584.0341	##	BN-J2	100.1950	109.2329
L_BN4	29.8108	222755.9717	1.0584	6349.0278	##	AN-J5	101.4310	110.0423
L_AN10	181.4174	1009225.720	6.0274	7544.9994	##	BN-3	100.4200	109.2420
L_AN9	164.5062	929771.1052	5.8418	11253.7963	##	AN-5	101.6810	110.3927

L_AN8	128.9259	746693.6837	4.5771	8445.4740	##	AN-4	102.0810	110.8463
L_AN7	128.8236	746505.7995	4.5732	8455.0710	##	AN-J4	102.3810	111.2019
L_AN6	85.4694	517789.1749	3.5402	6032.5398	##	AN-3	102.6810	111.6089
L_AN5	85.3866	517669.2845	3.5367	6043.5300	##	AN-J3	102.9300	111.8261
L_AS16	132.1191	616720.3174	5.4783	5564.3984	##	AN-2	103.1810	111.9887
L_BS11	52.3273	249165.4438	4.1441	3813.6857	##	AS-8	100.2310	108.7325
L_AS15	119.0113	555823.4598	4.9337	9171.3172	##	BS-1	100.2890	108.7350
L_BS1	36.0179	172668.8339	3.7192	2773.6658	##	AS-7	100.6110	108.8418
L_AS14	98.1963	458371.3201	4.0704	7841.2507	##	BS-J1	100.5640	108.8144
L_BS2	36.0386	172690.9686	3.7209	2773.6658	##	AS-J7	100.9360	109.0864
L_AS13	98.1842	458388.3739	4.0699	7840.4660	##	BS-2	100.8390	108.9201
L_BS3	18.5245	88276.3927	2.5977	2037.7953	##	AS-6	101.2610	109.4100
L_AS12	83.3847	389606.7661	4.1476	4422.8192	##	BS-J2	101.1140	109.0242
L_BS4	18.5445	88278.4624	2.6009	2037.7953	##	AS-J6	101.4810	109.6623
L_AS11	83.3602	389591.3238	4.1462	4422.9967	##	BS-3	101.3890	109.1382
L_AS10	64.3030	301119.6619	3.1985	6132.1223	##	AS-5	101.7010	109.9138
L_AS9	64.2645	301001.0549	3.1970	6131.3909	##	AS-J5	102.0060	110.1229
L_AS8	43.3637	195955.4382	2.7049	5628.1287	##	AS-4	102.3110	110.3294
L_AS7	42.7368	195831.6420	2.6664	5626.9720	##	AS-J4	102.6610	110.5142
L_AS6	21.6193	90704.3488	1.3495	6429.4679	##	AS-3	103.0110	110.6945
L_AS5	19.8640	90394.7735	1.4312	6426.6482	##	AS-J3	103.4110	110.7420
L-RD-1	13.0741	334126.7649	1.1418	59250.0107	##	AS-2	103.8110	110.7840
L-RD-2	18.6618	337229.1815	1.0969	28448.0000	##	A-R1	105.4400	108.8236
L-RD-5	-45.9203	345531.0584	-0.8433	68600.0000	##	RD-2	104.2960	108.8099
L-RD-6	-77.7400	356486.8816	-1.3882	59024.0000	##	RD-5	103.1150	108.7611
L-RD-7	-104.0794	362579.0226	-1.8586	28560.0000	##	RD-6	101.8900	108.7277
Link649	7.2675	151788.1575	0.6788	8373.0691	##	RD-7	100.8360	108.6896
L-RD-3	20.5139	338737.6602	4.1577	308.7569	##	RD-8	100.9360	108.7498
L-RD-4	-23.0257	340250.3018	1.1069	34328.0000	##	RD-3	103.7880	108.8026
Link652	7.3069	152071.8074	2.2958	4326.0358	##	RD-4	103.7280	108.7712
Link653	7.3466	152344.9358	2.3083	3482.8543	##	RD-9	102.2880	109.5772
L_AN4	42.8587	223252.2695	2.6815	11202.9209	##	BR-1	103.3750	110.3174
FREE # 1	1189.2722	32787390.33	0.0000	0.0000	##	AN-1	103.8800	113.0895

Table E15a - SPREADSHEET REACH LIST

Peak flow and Total Flow listed by Reach or those conduits or diversions having the same upstream and downstream nodes.

Upstream Node	Downstream Node	Maximum Flow (cfs)	Total Flow (ft^3)
7253.3	7216.8	950.3303	29492947.6
7185	7185(ml)	975.1483	30010663.5
6863.3	6325	1189.2723	32787243.1
7216.8	7185	950.4070	29493002.9
7185(ml)	6863.3	1016.9020	30868903.5
AN-7	6863.3	235.1595	1261359.51
BN-1	6863.3	76.6197	668481.434
AN-J7	AN-7	201.2176	1102233.95
BN-J1	BN-1	54.5101	482465.496
AN-J6	AN-J7	201.2171	1102176.85
BN-2	BN-J1	56.7285	484635.833
AN-6	AN-J6	201.2057	1102136.68
BN-J2	BN-2	28.3653	223217.787
AN-J5	AN-6	181.4514	1009317.82
BN-3	BN-J2	29.8108	222755.972
AN-5	AN-J5	181.4174	1009225.72
AN-4	AN-5	164.5062	929771.105
AN-J4	AN-4	128.9259	746693.684
AN-3	AN-J4	128.8236	746505.799
AN-J3	AN-3	85.4694	517789.175
AN-2	AN-J3	85.3866	517669.285
AS-8	7185(ml)	132.1191	616720.317
BS-1	7185(ml)	52.3273	249165.444
AS-7	AS-8	119.0113	555823.460
BS-J1	BS-1	36.0179	172668.834

AS-J7	AS-7	98.1963	458371.320
BS-2	BS-J1	36.0386	172690.969
AS-6	AS-J7	98.1842	458388.374
BS-J2	BS-2	18.5245	88276.3927
AS-J6	AS-6	83.3847	389606.766
BS-3	BS-J2	18.5445	88278.4624
AS-5	AS-J6	83.3602	389591.324
AS-J5	AS-5	64.3030	301119.662
AS-4	AS-J5	64.2645	301001.055
AS-J4	AS-4	43.3637	195955.438
AS-3	AS-J4	42.7368	195831.642
AS-J3	AS-3	21.6193	90704.3488
AS-2	AS-J3	19.8640	90394.7735
A-R1	RD-2	13.0741	334126.765
RD-2	RD-3	18.6618	337229.182
RD-5	RD-6	-45.9203	345531.058
RD-6	RD-7	-77.7400	356486.882
RD-7	7185	-104.0794	362579.023
RD-8	7185	7.2675	151788.158
RD-3	RD-4	20.5139	338737.660
RD-4	RD-5	-23.0257	340250.302
RD-9	RD-8	7.3069	152071.807
BR-1	RD-9	7.3466	152344.936
AN-1	AN-2	42.8587	223252.269

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##########################################################
# Table E16. New Conduit Information Section             #
#            Conduit Invert (IE) Elevation and Conduit   #
#            Maximum Water Surface (WS) Elevations       #
##########################################################
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Conduit Name	Upstream Node	Downstream Node	IE Up	IE Dn	WS Up	WS Dn	Conduit Type
Link587	7253.3	7216.8	99.4700	99.4400	108.8723	108.7209	Natural
Link588	7185	7185(ml)	98.4500	98.4500	108.6844	108.6643	Natural
Link590	6863.3	6325	98.4500	97.8300	108.5784	107.0155	Natural
Link655	7216.8	7185	99.4400	98.4500	108.7209	108.6844	Natural
Link665	7185(ml)	6863.3	98.4500	98.4500	108.6643	108.5784	Natural
L_AN15	AN-7	6863.3	100.3190	100.0000	108.7197	108.5784	Rectangle
L_BN14	BN-1	6863.3	99.3620	99.0000	109.1335	108.5784	Rectangle
L_AN14	AN-J7	AN-7	100.5540	100.3190	108.8135	108.7197	Rectangle
L_BN1	BN-J1	BN-1	99.6350	99.3620	109.1732	109.1335	Rectangle
L_AN13	AN-J6	AN-J7	100.8290	100.5540	108.9948	108.8133	Rectangle
L_BN2	BN-2	BN-J1	99.9710	99.6350	109.2207	109.1732	Rectangle
L_AN12	AN-6	AN-J6	101.1790	100.8290	109.4451	108.9947	Rectangle
L_BN3	BN-J2	BN-2	100.1950	99.9710	109.2329	109.2207	Rectangle
L_AN11	AN-J5	AN-6	101.4310	101.1790	110.0425	109.4452	Rectangle
L_BN4	BN-3	BN-J2	100.4200	100.1950	109.2420	109.2329	Rectangle
L_AN10	AN-5	AN-J5	101.6810	101.4310	110.3927	110.0423	Rectangle
L_AN9	AN-4	AN-5	102.0810	101.6810	110.8463	110.3927	Rectangle
L_AN8	AN-J4	AN-4	102.3810	102.0810	111.2019	110.8465	Rectangle
L_AN7	AN-3	AN-J4	102.6810	102.3810	111.6088	111.2020	Rectangle
L_AN6	AN-J3	AN-3	102.9300	102.6810	111.8260	111.6089	Rectangle
L_AN5	AN-2	AN-J3	103.1810	102.9300	111.9887	111.8261	Rectangle
L_AS16	AS-8	7185(ml)	100.2310	100.0000	108.7326	108.6643	Rectangle
L_BS11	BS-1	7185(ml)	100.2890	100.0000	108.7351	108.6643	Circular
L_AS15	AS-7	AS-8	100.6110	100.2310	108.8419	108.7325	Rectangle
L_BS1	BS-J1	BS-1	100.5640	100.2890	108.8144	108.7350	Circular
L_AS14	AS-J7	AS-7	100.9360	100.6110	109.0864	108.8418	Rectangle
L_BS2	BS-2	BS-J1	100.8390	100.5640	108.9201	108.8144	Circular
L_AS13	AS-6	AS-J7	101.2610	100.9360	109.4100	109.0864	Rectangle
L_BS3	BS-J2	BS-2	101.1140	100.8390	109.0242	108.9201	Circular
L_AS12	AS-J6	AS-6	101.4810	101.2610	109.6623	109.4099	Rectangle
L_BS4	BS-3	BS-J2	101.3890	101.1140	109.1382	109.0242	Circular
L_AS11	AS-5	AS-J6	101.7010	101.4810	109.9138	109.6622	Rectangle
L_AS10	AS-J5	AS-5	102.0060	101.7010	110.1229	109.9138	Rectangle
L_AS9	AS-4	AS-J5	102.3110	102.0060	110.3294	110.1228	Rectangle
L_AS8	AS-J4	AS-4	102.6610	102.3110	110.5142	110.3294	Rectangle
L_AS7	AS-3	AS-J4	103.0110	102.6610	110.6945	110.5141	Rectangle

L_AS6	AS-J3	AS-3	103.4110	103.0110	110.7420	110.6945	Rectangle
L_AS5	AS-2	AS-J3	103.8110	103.4110	110.7840	110.7421	Rectangle
L-RD-1	A-R1	RD-2	105.4400	104.2960	108.8236	108.8099	Trapezoid
L-RD-2	RD-2	RD-3	104.2960	103.7880	108.8099	108.8026	Trapezoid
L-RD-5	RD-5	RD-6	103.1150	101.8900	108.7611	108.7277	Trapezoid
L-RD-6	RD-6	RD-7	101.8900	100.8360	108.7277	108.6896	Trapezoid
L-RD-7	RD-7	7185	100.8360	100.3260	108.6896	108.6844	Trapezoid
Link649	RD-8	7185	100.9360	100.3000	108.7498	108.6844	Circular
L-RD-3	RD-3	RD-4	103.7880	103.7280	108.8026	108.7712	Circular
L-RD-4	RD-4	RD-5	103.7280	103.1150	108.7712	108.7611	Trapezoid
Link652	RD-9	RD-8	102.2880	100.9360	109.5772	108.7498	Circular
Link653	BR-1	RD-9	103.3750	102.2880	110.3174	109.5772	Circular
L_AN4	AN-1	AN-2	103.8800	103.1810	113.0892	111.9888	Rectangle

Table E18 - Junction Continuity Error. Division by Volume added 11/96

Continuity Error = Net Flow + Beginning Volume - Ending Volume
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Total Flow + (Beginning Volume + Ending Volume)/2

Net Flow = Node Inflow - Node Outflow
Total Flow = absolute (Inflow + Outflow)
Intermediate column is a judgement on the node continuity error.

Excellent < 1 percent Great 1 to 2 percent Good 2 to 5 percent
Fair 5 to 10 percent Poor 10 to 25 percent Bad 25 to 50 percent
Terrible > 50 percent

Junction Name	<------Continuity Error -------> Volume	% of Node	% of Inflow	Remaining Volume	Beginning Volume	Net Flow Thru Node	Total Flow Thru Node	Failed to Converge
6863.3	903.8664	0.0014	0.0028	10589.9434	0.0000	11493.8098	65585987.60	0
7253.3	-278.2367	-0.0005	0.0008	143.3858	0.0000	-134.8509	58986042.91	0
7185	-6615.9667	-0.0110	0.0202	2631.2320	0.0000	-3984.7348	60018033.56	0
6325	-3127.4563	-0.0048	0.0095	2972.8647	0.0000	-154.5916	65574633.47	0
7216.8	-827.5381	-0.0014	0.0025	282.8031	0.0000	-544.7350	58985950.46	0
7185(ml)	-1273.8793	-0.0021	0.0039	8422.9432	0.0000	7149.0640	61745452.79	0
AN-7	-244.7335	-0.0097	0.0007	429.3034	0.0000	184.5698	2522910.988	0
BN-1	450.7172	0.0336	0.0014	2018.7465	0.0000	2469.4638	1339433.419	0
AN-J7	-115.8784	-0.0053	0.0004	56.3476	0.0000	-59.5308	2204410.792	0
BN-J1	210.9339	0.0218	0.0006	1958.8051	0.0000	2169.7389	967101.3290	0
AN-J6	-80.3228	-0.0036	0.0002	36.5686	0.0000	-43.7542	2204313.526	0
BN-2	-464.5451	-0.0479	0.0014	1200.6794	0.0000	736.1344	970013.9494	0
AN-6	-121.8425	-0.0055	0.0004	42.2475	0.0000	-79.5950	2204199.232	0
BN-J2	-888.5146	-0.1991	0.0027	423.5576	0.0000	-464.9571	445973.7590	0
AN-J5	-127.4255	-0.0063	0.0004	29.2086	0.0000	-98.2169	2018543.543	0
BN-3	-962.6751	-0.2165	0.0029	119.9854	0.0000	-842.6897	444673.0030	0
AN-5	-273.6623	-0.0136	0.0008	39.7400	0.0000	-233.9222	2018223.593	0
AN-4	-269.4174	-0.0145	0.0008	43.4982	0.0000	-225.9192	1859326.309	0
AN-J4	-232.5912	-0.0156	0.0007	37.1780	0.0000	-195.4131	1493199.483	0
AN-3	-167.3476	-0.0112	0.0005	33.2634	0.0000	-134.0842	1492885.392	0
AN-J3	-156.4907	-0.0151	0.0005	29.6161	0.0000	-126.8747	1035458.459	0
AN-2	-347.5850	-0.0336	0.0011	25.5723	0.0000	-322.0127	1035018.649	0
AS-8	111.4912	0.0090	0.0003	369.6604	0.0000	481.1516	1233923.598	0
BS-1	39.8879	0.0080	0.0001	96.4366	0.0000	136.3245	498469.0520	0
AS-7	-57.4882	-0.0052	0.0002	102.0155	0.0000	44.5273	1111691.495	0
BS-J1	10.5239	0.0030	0.0000	11.2583	0.0000	21.7822	345359.8025	0
AS-J7	16.6959	0.0018	0.0001	1.2149	0.0000	17.9108	916759.6940	0
BS-2	12.5397	0.0036	0.0000	0.0028	0.0000	12.5424	345396.1141	0
AS-6	3.8638	0.0004	0.0000	2.8126	0.0000	6.6764	916781.9372	0
BS-J2	1.4533	0.0008	0.0000	0.0028	0.0000	1.4561	176554.8551	0
AS-J6	-14.1383	-0.0018	0.0000	2.5202	0.0000	-11.6181	779198.0899	0
BS-3	99.9175	0.0566	0.0003	0.0014	0.0000	99.9189	176658.2030	0
AS-5	-63.9155	-0.0082	0.0002	2.2048	0.0000	-61.7107	779117.7248	0
AS-J5	-119.2021	-0.0198	0.0004	2.1520	0.0000	-117.0501	602120.7168	0
AS-4	-134.3440	-0.0223	0.0004	1.7256	0.0000	-132.6185	601869.1863	0
AS-J4	-125.1843	-0.0320	0.0004	1.3378	0.0000	-123.8465	391787.0802	0
AS-3	-179.9646	-0.0460	0.0005	1.0443	0.0000	-178.9203	391484.6817	0
AS-J3	-311.6755	-0.1721	0.0010	0.6422	0.0000	-311.0334	181099.1223	0
AS-2	-286.4691	-0.1587	0.0009	0.2013	0.0000	-286.2678	180502.5103	0
A-R1	-3281.0085	-0.4917	0.0100	1563.3321	0.0000	-1717.6764	666538.2933	0
RD-2	-5360.3047	-0.7971	0.0164	2252.8740	0.0000	-3107.4307	671355.9464	0

RD-5	-7757.0764	-1.1291	0.0237	2476.0744	0.0000	-5281.0020	685781.3602	0
RD-6	-14120.5235	-2.0069	0.0431	3166.4907	0.0000	-10954.0329	702017.9400	0
RD-7	-8131.1753	-1.1292	0.0248	2036.9202	0.0000	-6094.2550	719065.9042	0
RD-8	-315.7312	-0.1038	0.0010	597.8018	0.0000	282.0706	303859.9650	0
RD-3	-2247.5055	-0.3323	0.0069	729.9624	0.0000	-1517.5431	675966.8417	0
RD-4	-2407.0340	-0.3543	0.0073	886.6066	0.0000	-1520.4274	678987.9620	0
RD-9	-340.8611	-0.1119	0.0010	613.7907	0.0000	272.9296	304416.7432	0
BR-1	19.1918	0.0063	0.0001	226.7139	0.0000	245.9058	304935.6946	0
AN-1	-747.8273	-0.1678	0.0023	10.0728	0.0000	-737.7546	445767.6929	0

The total continuity error was -60696. cubic feet
The remaining total volume was 46723. cubic feet
Your mean node continuity error was Excellent
Your worst node continuity error was Excellent

Table E19 - Junction Inflow & Outflow Listing
Units are either ft^3 or m^3 depending on the units in your model.

Junction Name	Constant Inflow to Node	User Inflow to Node	Interface Inflow to Node	DWF Inlow to Node	Inflow through Outfall	RNF Layer Inflow to Node	Outflow from Node	Evaporation from Node	Inflow from 2D Layer
7253.3	0.0000	29.4931E+06	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
6325	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	32.7874E+06	0.0000	
AN-7	0.0000	159318.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
BN-1	0.0000	188487.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
BN-2	0.0000	262161.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
AN-6	0.0000	92745.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
BN-3	0.0000	221917.5050	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
AN-5	0.0000	79227.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
AN-4	0.0000	182862.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
AN-3	0.0000	228591.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
AN-2	0.0000	294097.5150	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
AS-8	0.0000	61380.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
BS-1	0.0000	76635.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
AS-7	0.0000	97497.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
BS-2	0.0000	84429.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
AS-6	0.0000	68787.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
BS-3	0.0000	88380.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
AS-5	0.0000	88407.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
AS-4	0.0000	104913.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
AS-3	0.0000	104949.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
AS-2	0.0000	90108.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
A-R1	0.0000	332411.5450	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
BR-1	0.0000	152590.7750	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
AN-1	0.0000	222516.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	

Table E20 - Junction Flooding and Volume Listing.
The maximum volume is the total volume in the node including the volume in the flooded storage area. This is the max volume at any time. The volume in the flooded storage area is the total volume above the ground elevation, where the flooded pond storage area starts.
The fourth column is instantaneous, the fifth is the sum of the flooded volume over the entire simulation
Units are either ft^3 or m^3 depending on the units.

Junction Name	Surcharged Time (min)	Flooded Time(min)	Out of 1D-System (Flooded Volume)	Maximum Volume	Passed to 2D cell OR Volume Stored in allowed Flood Pond of 1D-System
6863.3	0.0000	0.0000	0.0000	127.2731	0.0000
7253.3	0.0000	0.0000	0.0000	118.1498	0.0000
7185	0.0000	0.0000	0.0000	128.6059	0.0000
6325	0.0000	0.0000	0.0000	115.4250	0.0000
7216.8	0.0000	0.0000	0.0000	116.6237	0.0000
7185(ml)	0.0000	0.0000	0.0000	128.3527	0.0000
AN-7	359.2167	54.8500	0.0000	187.8327	92.1165
BN-1	601.1000	118.6500	0.0000	12306.1581	13854.7139
AN-J7	338.6000	0.0000	0.0000	103.7885	0.0000
BN-J1	556.1333	86.3500	0.0000	4719.9429	5186.7221
AN-J6	311.3500	0.0000	0.0000	102.6114	0.0000
BN-2	507.0333	145.1500	0.0000	18770.8916	19731.5050
AN-6	274.0833	0.1417	0.0000	115.2261	13.9734

BN-J2	476.5333	146.7167	0.0000	23094.8577	23735.7364
AN-J5	250.8167	0.0000	0.0000	108.2121	0.0000
BN-3	449.1167	277.2833	0.0000	41686.0121	45394.9091
AN-5	229.8000	0.0833	0.0000	111.9039	2.9410
AN-4	285.9333	0.0000	0.0000	110.1470	0.0000
AN-J4	256.8000	0.0000	0.0000	110.8449	0.0000
AN-3	230.8167	0.0000	0.0000	112.1865	0.0000
AN-J3	210.4167	0.0000	0.0000	111.7875	0.0000
AN-2	187.5167	0.2167	0.0000	116.7226	9.7863
AS-8	491.8500	0.0000	0.0000	106.8311	0.0000
BS-1	483.9667	0.0000	0.0000	106.1333	0.0000
AS-7	442.9500	0.0000	0.0000	103.4295	0.0000
BS-J1	517.5167	0.0000	0.0000	103.6749	0.0000
AS-J7	409.1333	0.0000	0.0000	102.4181	0.0000
BS-2	478.4000	19.0833	0.0000	102.2996	1.8458
AS-6	378.9667	0.0000	0.0000	102.4006	0.0000
BS-J2	510.7167	0.0000	0.0000	99.3997	0.0000
AS-J6	359.6500	0.0000	0.0000	102.8061	0.0000
BS-3	472.4167	91.7167	0.0000	2532.3220	2769.9591
AS-5	340.1167	0.0000	0.0000	103.2025	0.0000
AS-J5	308.0500	0.0000	0.0000	101.9975	0.0000
AS-4	276.5333	0.0000	0.0000	100.7595	0.0000
AS-J4	244.0000	0.0000	0.0000	98.6834	0.0000
AS-3	214.1833	0.0000	0.0000	96.5507	0.0000
AS-J3	176.0667	0.0000	0.0000	92.1222	0.0000
AS-2	135.8833	0.0000	0.0000	87.6225	0.0000
A-R1	0.0000	0.0000	0.0000	42.5187	0.0000
RD-2	80.1000	0.0000	0.0000	56.7214	0.0000
RD-5	191.3333	0.0000	0.0000	70.9488	0.0000
RD-6	316.5000	0.0000	0.0000	85.9230	0.0000
RD-7	420.4000	0.0000	0.0000	98.6879	0.0000
RD-8	411.5167	0.0000	0.0000	98.1883	0.0000
RD-3	125.4333	0.0000	0.0000	63.0134	0.0000
RD-4	125.3333	0.0000	0.0000	63.3723	0.0000
RD-9	508.5167	57.8500	0.0000	491.6836	472.4219
BR-1	393.4000	162.8667	0.0000	6400.0514	7371.5123
AN-1	128.3333	0.1917	0.0000	137.6946	18.7114

==================================
| Simulation Specific Information |
==================================

Number of Input Conduits.....	49	Number of Simulated Conduits.....	50
Number of Natural Channels.....	5	Number of Junctions.....	50
Number of Storage Junctions.....	20	Number of Weirs.....	0
Number of Orifices.....	0	Number of Pumps.....	0
Number of Free Outfalls.....	1	Number of Tide Gate Outfalls.....	0

===
| Average % Change in Junction or Conduit is defined as: |
| Conduit % Change ==> 100.0 (Q(n+1) - Q(n)) / Qfull |
| Junction % Change ==> 100.0 (Y(n+1) - Y(n)) / Yfull |
===

The Conduit with the largest average change was..Link590 with 2.059 percent
The Junction with the largest average change was.AN-2 with 0.023 percent
The Conduit with the largest sinuosity was.....L-RD-3 with 6.954

==
| Table E21. Continuity balance at the end of the simulation |
| Junction Inflow, Outflow or Street Flooding |
| Error = Inflow + Initial Volume - Outflow - Final Volume |
==

Inflow Junction	Inflow Volume,ft^3	Average Inflow, cfs
7253.3	29.49310E+06	227.5702
AN-7	159317.5332	1.2293
BN-1	188486.4885	1.4544
BN-2	262160.3287	2.0228
AN-6	92744.7287	0.7156
BN-3	221917.0314	1.7123
AN-5	79226.7682	0.6113
AN-4	182861.5200	1.4110
AN-3	228590.4178	1.7638
AN-2	294097.0951	2.2693
AS-8	61379.8206	0.4736
BS-1	76634.7743	0.5913

```
           AS-7    97496.7150         0.7523

           BS-2    84428.7529         0.6515

           AS-6    68786.7972         0.5308

           BS-3    88379.7406         0.6819

           AS-5    88406.7390         0.6822

           AS-4   104912.6932         0.8095

           AS-3   104948.6908         0.8098

           AS-2    90107.7368         0.6953

           A-R1   332411.5284         2.5649

           BR-1   152590.7588         1.1774

           AN-1   222515.4234         1.7169

           6325   -32.787E+06      -252.9891

       Outflow      Outflow          Average
       Junction  Volume,ft^3    Outflow, cfs
--------------  ------------   ------------
           6325  32.78739E+06       252.9891


*====================================================*

| Initial system volume        =         0.0000 Cu Ft |

| Total system inflow volume   =  32.775508E+06 Cu Ft |

| Inflow + Initial volume      =  32.775508E+06 Cu Ft |

*====================================================*

| Total system outflow         =  32.787390E+06 Cu Ft |

| Volume left in system        =     46723.3627 Cu Ft |

| Evaporation                  =         0.0000 Cu Ft |

| Outflow + Final Volume       =  32.834114E+06 Cu Ft |

*====================================================*


*================================================*
| Total Model Continuity Error                   |
| Error in Continuity, Percent =       -0.1788 |
| Error in Continuity, ft^3    =     -58605.557 |
| + Error means a continuity loss, - a gain      |
*================================================*

##################################################
# Table E22. Numerical Model judgement section   #
##################################################

Your overall error was                                    -0.1788 percent


Worst nodal error was in node RD-6             with       -2.0114 percent


Of the total inflow this loss was                          0.0431 percent


Your overall continuity error was                  Excellent


                                                  Excellent Efficiency


Efficiency of the simulation                       1.55


Most Number of Non Convergences at one Node        0.


Total Number Non Convergences at all Nodes         0.


Total Number of Nodes with Non Convergences        0.



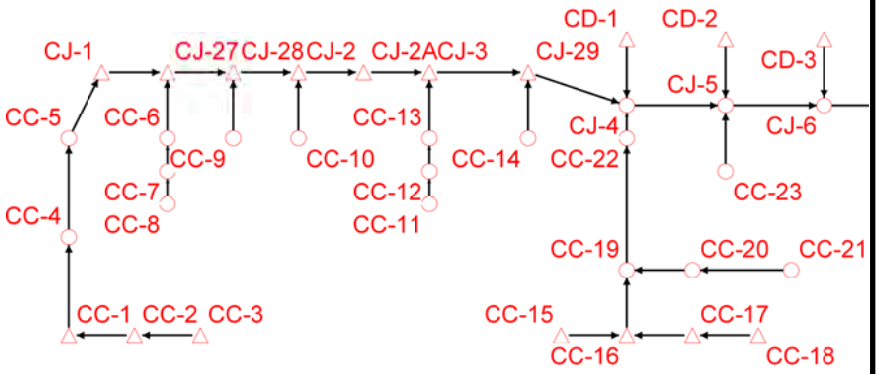
===> Hydraulic model simulation ended normally.
===> XP-SWMM Simulation ended normally.


===> Your input file was named  : P:\PROJECTS\290PMC\PhaseII\DRA\Models\SWMM\Segment C\E127MIT_100.DAT
===> Your output file was named : P:\PROJECTS\290PMC\PhaseII\DRA\Models\SWMM\Segment C\E127MIT_100.out

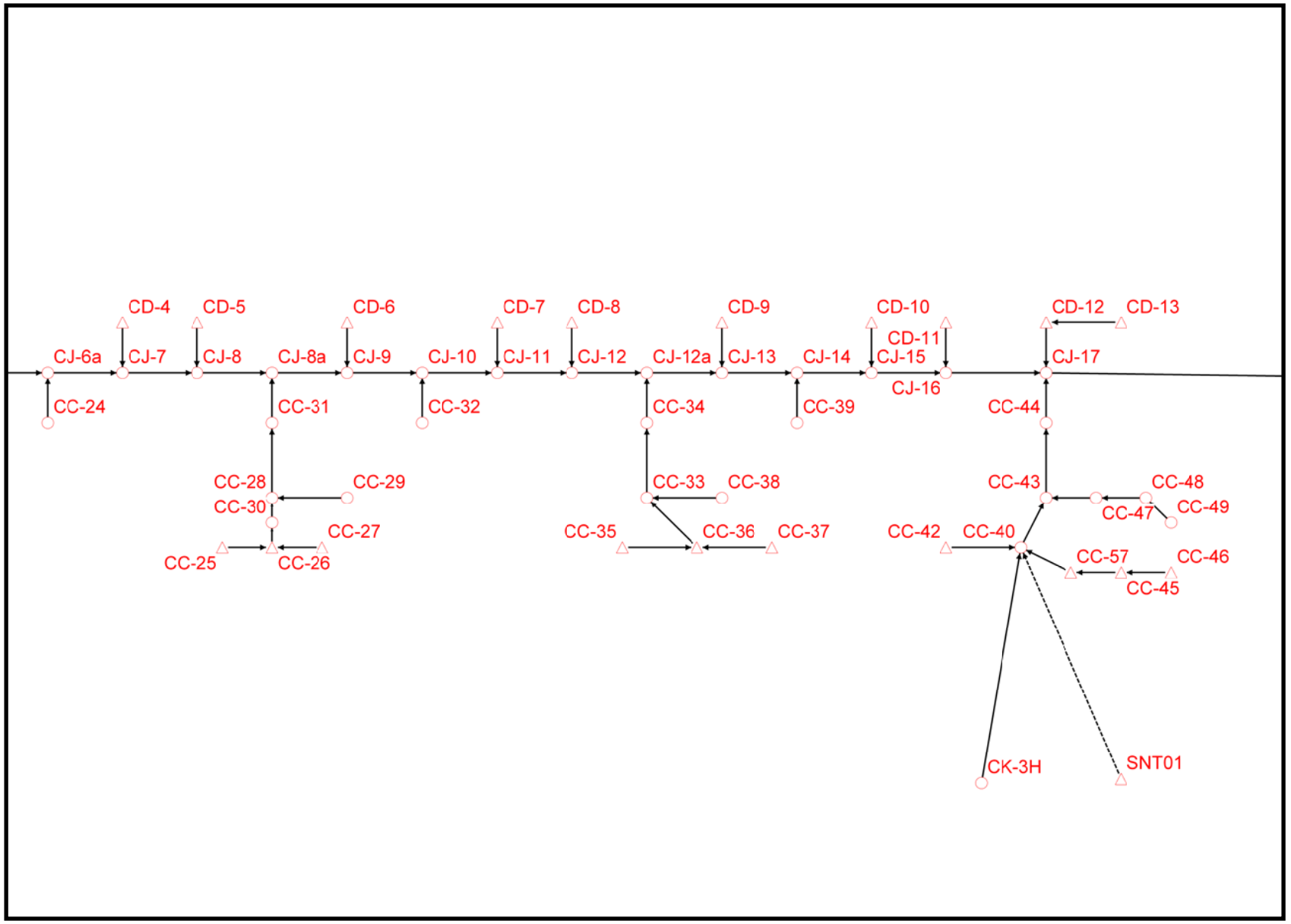
*============================================================*
|             SWMM Simulation Date and Time Summary          |
*============================================================*
| Starting Date... August     22, 2009  Time...   10:33:30: 1  |
|   Ending Date... August     22, 2009  Time...   10:37:33:27  |
|  Elapsed Time...    4.05433 minutes or    243.26000 seconds  |
*============================================================*
```

OUTFALL 8
SWMM OUTPUT
100 YR- EXISTING CONDITIONS

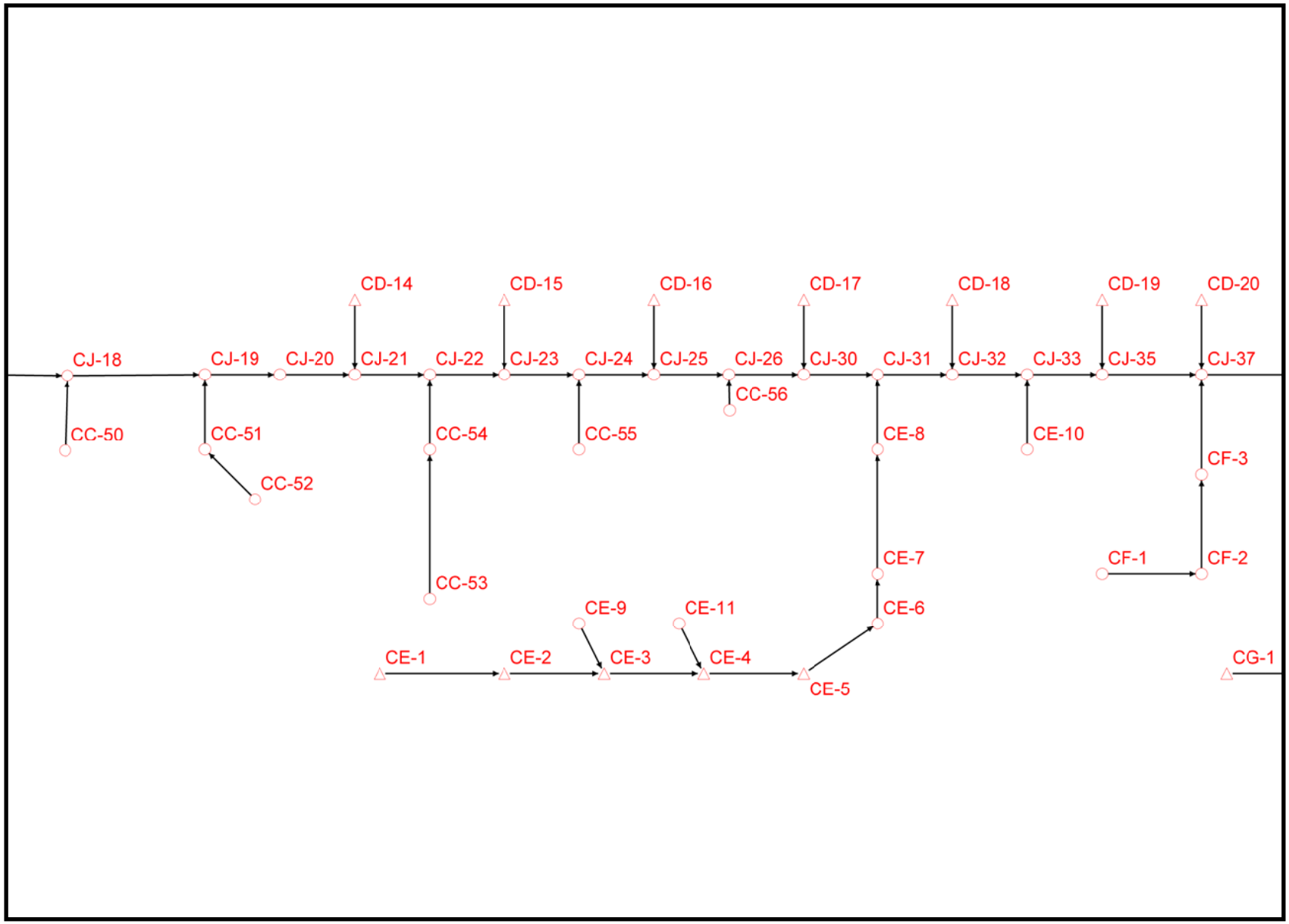
OUTFALL 8
EXISTING CONDITIONS SWMM LAYOUT



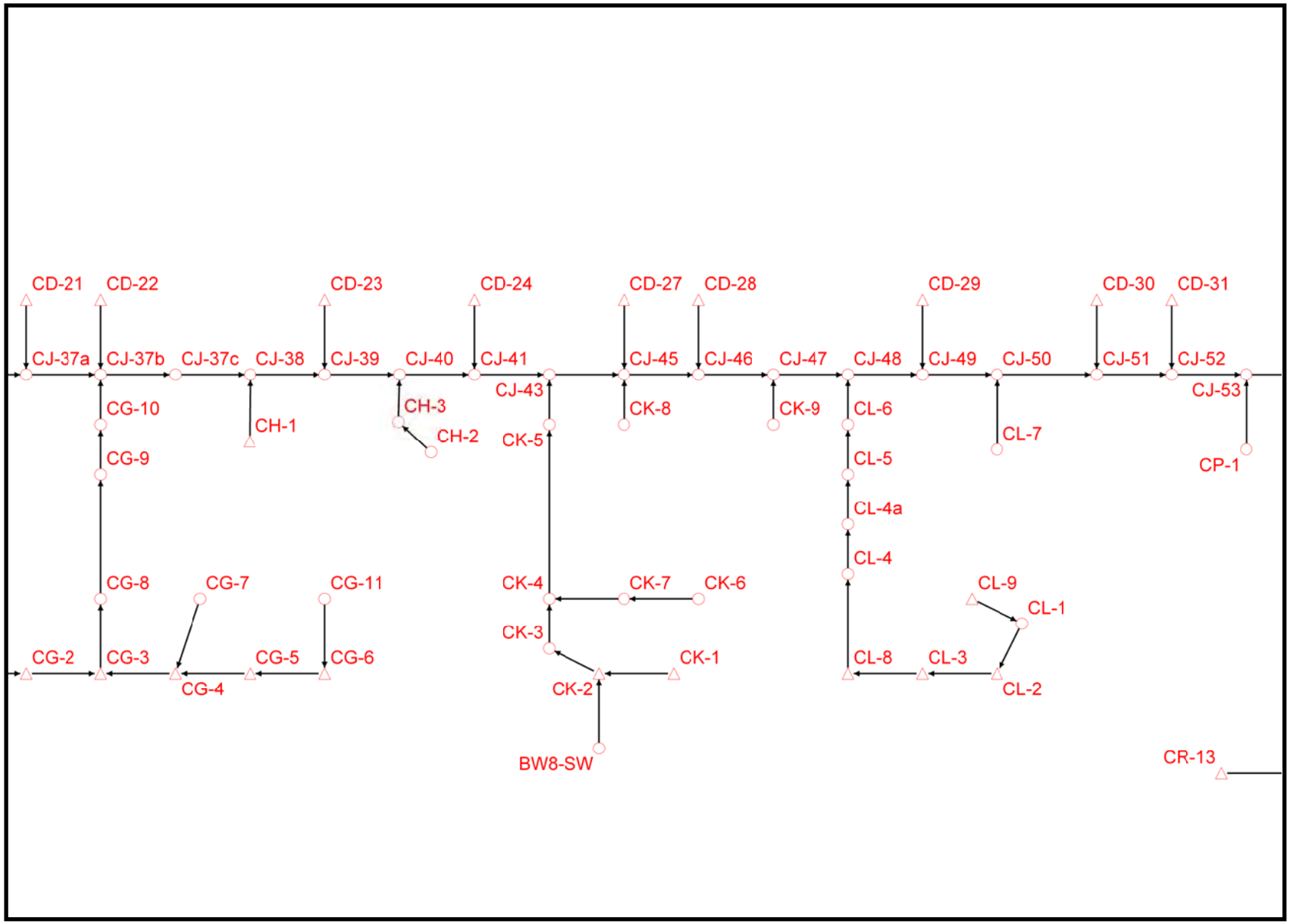
OUTFALL 8
EXISTING CONDITIONS SWMM LAYOUT



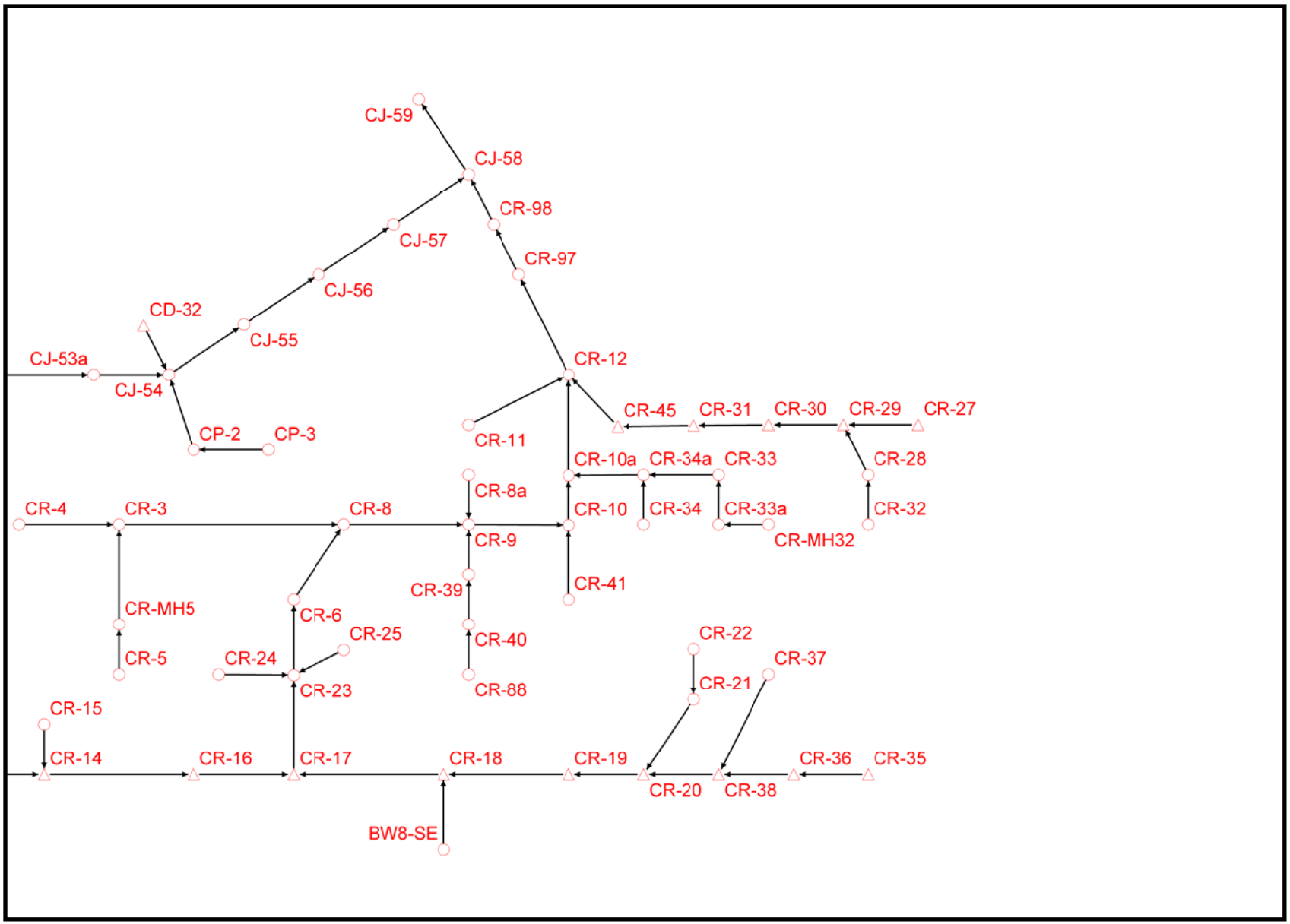
OUTFALL 8
EXISTING CONDITIONS SWMM LAYOUT



OUTFALL 8
EXISTING CONDITIONS SWMM LAYOUT



OUTFALL 8
EXISTING CONDITIONS SWMM LAYOUT



```
 Current Directory:   C:\XPS\xpstorm
 Engine Name: C:\XPS\xpstorm\SWMMEN~1.EXE



 Input File : JECTS\290PMC\PhaseII\DRA\Models\SWMM\Segment C\BW8Existing_100.XP

          *================================================*
          |                    xpswmm                      |
          |     Storm and Wastewater Management Model      |
          |           Interface Version: 10.52             |
          |              Engine Version: 10.54             |
          |================================================|
          |                                                |
          |                Developed by                    |
          |                                                |
          |                XP Software                     |
          |                                                |
          |================================================|
          |      XP Software       November, 2006          |
          |       Data File Version --->    11.9           |
          |       Serial Number: 66-1052-0602              |
          |                H & H Resources                 |
          *================================================*

Engine Name: C:\XPS\xpstorm\SWMMEN~1.EXE


*=================================================*
|       Input and Output file names by Layer      |
*=================================================*

 Input File  to Layer #     1 JOT.US
 Output File to Layer #     1 JOT.US

*=========================================================*
|   Special command line arguments in XP-SWMM2000. This  |
|   now includes program defaults. $Keywords are the program|
|   defaults.  Other Keywords are from the SWMMCOM.CFG file.|
|   or the command line or any cfg file on the command line.|
|   Examples include these in the file xpswm.bat under the |
|   section :solve or in the windows version XPSWMM32 in the|
|   file solve.bat                                        |
|                                                         |
|   Note: the cfg file should be in the subdirectory swmxp |
|         or defined by the set variable in the xpswm.bat |
|         file.  Some examples of the command lines possible|
|         are shown below:                                |
|                                                         |
|   swmmd swmmcom.cfg                                     |
|   swmmd my.cfg                                          |
|   swmmd nokeys nconv5 perv extranwq                     |
*=========================================================*

 $powerstation                       0.0000         1         2
 $perv                               0.0000         0         4
 $oldegg                             0.0000         0         7
 $as                                 0.0000         0        11
 $noflat                             0.0000         0        21
 $oldomega                           0.0000         0        24
 $oldvol                             0.0000         1        28
 $implicit                           0.0000         1        29
 $oldhot                             0.0000         1        31
 $oldscs                             0.0000         0        33
 $flood                              0.0000         1        40
 $nokeys                             0.0000         0        42
 $pzero                              0.0000         0        55
 $oldvol2                            0.0000         2        59
 $storage2                           0.0000         3        62
 $oldhot1                            0.0000         1        63
 $pumpwt                             0.0000         1        70
 $ecloss                             0.0000         1        77
 $exout                              0.0000         0        97
 SPATIAL=0.55                        0.5500         5       124
 $djref = -1.0                      -0.1000         3       143
 $weirlen = 50                      50.0000         1       153
 $oldbnd                             0.0000         1       154
 $nogrelev                           0.0000         1       161
 $ncmid                              0.0000         0       164
 $new_nl_97                          0.0000         2       290
 $best97                             0.0000         1       294
 $newbound                           0.0000         1       295
 $q_tol = 0.01                       0.0001         1       316
 $new_storage                        0.0000         1       322
 $old_iteration                      0.0000         1       333
 MINLEN=1.0                          1.0000         1       346
 $review_elevation                   0.0000         1       383
 $use_half_volume                    0.0000         1       385
 $min_ts = 0.5                       0.5000         1       407
 $design_restart = on                0.0000         1       412
 $zero_value=1.e-05                  0.0000         1       415
 $relax_depth = on                   0.0000         1       427
 $saveallpts = on                    0.0000         1       434

 *=========================================================*
 | Parameter Values on the Tapes Common Block.These are the |
 | values read from the data file and dynamically allocated |
 | by the model for this simulation.                       |
 *=========================================================*

  Number of Subcatchments in the Runoff Block (NW)....     0
  Number of Channel/Pipes in the Runoff Block (NG)....     0
  Runoff Water quality constituents (NRQ).............     0
  Runoff Land Uses per Subcatchment (NLU).............     0
  Number of Elements in the Transport Block (NET).....     0
  Number of Storage Junctions in Transport (NTSE).....     0
  Number of Input Hydrographs in Transport (NTH)......     0
  Number of Elements in the Extran Block (NEE)........   250
  Number of Groundwater Subcatchments in Runoff (NGW).     0
  Number of Interface locations for all Blocks (NIE)..   250
  Number of Pumps in Extran (NEP).....................     1
  Number of Orifices in Extran (NEO)..................     0
  Number of Tide Gates/Free Outfalls in Extran (NTG)..     1
  Number of Extran Weirs (NEW)........................     0
  Number of scs hydrograph points.....................     1
  Number of Extran printout locations (NPO)...........     0
  Number of Tide elements in Extran (NTE).............     1
  Number of Natural channels (NNC)....................     0
  Number of Storage junctions in Extran (NVSE)........    88
  Number of Time history data points in Extran(NTVAL).   300
  Number of Variable storage elements in Extran (NVST)     5
  Number of Input Hydrographs in Extran (NEH).........   140
  Number of Particle sizes in Transport Block (NPS)...     0
  Number of User defined conduits (NHW)...............   250
  Number of Connecting conduits in Extran (NECC)......    20
  Number of Upstream elements in Transport (NTCC).....    10
```

```
 Number of Storage/treatment plants (NSTU)...........     1
 Number of Values for R1 lines in Transport (NR1)....     0
 Number of Nodes to be allowed for (NNOD)............   250
 Number of Plugs in a Storage Treatment Unit.........     1


#########################################################
#    Entry made to the HYDRAULIC Layer(Block) of SWMM #
#    Last Updated June,2005 by XP Software            #

    US 290/Hempstead Hwy Corridor
    Drainage Impact Study - Existing Conditions Sys_BW8- /// 100-Year Frequ


*============================================================*
|       HYDRAULICS TABLES IN THE OUTPUT FILE                 |
|  These are the more important tables in the output file.   |
|  You can use your editor to find the table numbers,        |
|  for example: search for Table E20 to check continuity.    |
|  This output file can be imported into a Word Processor    |
|  and printed on US letter or A4 paper using portrait       |
|  mode, courier font, a size of 8 pt. and margins of 0.75   |
|                                                            |
| Table E1   - Basic Conduit Data                            |
| Table E2   - Conduit Factor Data                           |
| Table E3a  - Junction Data                                 |
| Table E3b  - Junction Data                                 |
| Table E4   - Conduit Connectivity Data                     |
| Table E4a  - Dry Weather Flow Data                         |
| Table E4b  - Real Time Control Data                        |
| Table E5   - Junction Time Step Limitation Summary         |
| Table E5a  - Conduit Explicit Condition Summary            |
| Table E6   - Final Model Condition                         |
| Table E7   - Iteration Summary                             |
| Table E8   - Junction Time Step Limitation Summary         |
| Table E9   - Junction  Summary  Statistics                 |
| Table E10  - Conduit   Summary  Statistics                 |
| Table E11  - Area assumptions used in the analysis         |
| Table E12  - Mean conduit information                      |
| Table E13  - Channel losses(H) and culvert info            |
| Table E13a - Culvert Analysis Classification               |
| Table E14  - Natural Channel Overbank Flow Information     |
| Table E14a - Natural Channel Encroachment Information      |
| Table E14b - Floodplain Mapping                            |
| Table E15  - Spreadsheet Info List                         |
| Table E15a - Spreadsheet Reach List                        |
| Table E16  - New Conduit Output Section                    |
| Table E17  - Pump Operation                                |
| Table E18  - Junction Continuity Error                     |
| Table E19  - Junction Inflow & Outflow Listing             |
| Table E20  - Junction Flooding and Volume List             |
| Table E21  - Continuity balance at simulation end          |
| Table E22  - Model Judgement Section                       |
*============================================================*

Time Control from Hydraulics Job Control
Year.........    2007 Month.......       1
Day..........       1 Hour........       0
Minute.......       0 Second......       0


Control information for simulation
----------------------------------

Integration cycles...................     12960
Length of integration step is.....      10.00 seconds
Simulation length...................     36.00 hours
Do not create equiv. pipes(NEQUAL).         0
Use U.S. customary units for I/O...         0
Printing starts in cycle...........         1
Intermediate printout intervals of.       500 cycles
Intermediate printout intervals of.     83.33 minutes
Summary printout intervals of......       500 cycles
Summary printout time interval of..     83.33 minutes
Hot start file parameter (REDO)....         0
Initial time.......................      0.00 hours

Iteration variables: Flow Tolerance.   0.00010
                     Head Tolerance.   0.00010
    Minimum depth (m or ft).........   0.00001
    Underrelaxation parameter.......   0.85000
    Time weighting parameter........   0.85000
    Conduit roughness factor........   1.00000
    Flow adjustment factor..........   1.00000
    Initial Condition Smoothing.....         0
    Courant Time Step Factor........   1.00000
    Default Expansion/Contraction K.   0.00000
    Default Entrance/Exit K.........   0.00000
    Routing Method..................   Dynamic Wave
Default surface area of junctions...     12.57 square feet.
Minimum Junction/Conduit Depth......   0.00001 feet.
Ponding Area Coefficient............   5000.00
Ponding Area Exponent...............    1.0000
Minimum Orifice Length..............    500.00 feet.
NJSW input hydrograph junctions.....   140
     or user defined hydrographs....

*================================================*
|          Table E1 - Conduit Data               |
*================================================*
```

Inp Num	Conduit Name	Length (ft)	Conduit Class	Area (ft^2)	Manning Coef.	Max Width (ft)	Depth (ft)	Trapezoid Side Slopes
1	L-CC-3	100.0000	Circular	1.7671	0.0130	1.5000	1.5000	
2	L-CC-2	100.0000	Circular	1.7671	0.0130	1.5000	1.5000	
3	L-CC-1	59.0000	Circular	3.1416	0.0130	2.0000	2.0000	
4	L-CC-4	172.0000	Circular	3.1416	0.0130	2.0000	2.0000	
5	L-CC-5	62.0000	Circular	4.9087	0.0130	2.5000	2.5000	
6	L-CC-8	25.0000	Circular	1.7671	0.0130	1.5000	1.5000	
7	L-CC-7	69.0000	Circular	1.7671	0.0130	1.5000	1.5000	
8	L-CC-6	60.0000	Circular	3.1416	0.0130	2.0000	2.0000	
9	L-CC-9	59.0000	Circular	1.7671	0.0130	1.5000	1.5000	
10	L-CC-11	25.0000	Circular	1.7671	0.0130	1.5000	1.5000	
11	L-CC-12	73.0000	Circular	1.7671	0.0130	1.5000	1.5000	
12	L-CC-13	55.0000	Circular	3.1416	0.0130	2.0000	2.0000	
13	L-CC-14	54.0000	Circular	1.7671	0.0130	1.5000	1.5000	
14	L-CC-21	95.0000	Circular	1.7671	0.0130	1.5000	1.5000	
15	L-CC-20	73.0000	Circular	1.7671	0.0130	1.5000	1.5000	
16	L-CC-19	170.0000	Circular	3.1416	0.0130	2.0000	2.0000	
17	L-CC-22	32.0000	Circular	3.1416	0.0130	2.0000	2.0000	
18	L-CC-18	100.0000	Circular	1.7671	0.0130	1.5000	1.5000	
19	L-CC-17	60.0000	Circular	1.7671	0.0130	1.5000	1.5000	
20	L-CC-16	70.0000	Circular	3.1416	0.0130	2.0000	2.0000	
21	L-CC-15	100.0000	Circular	1.7671	0.0130	1.5000	1.5000	
22	L-CC-23	32.0000	Circular	1.7671	0.0130	1.5000	1.5000	
23	L-CC-24	30.0000	Circular	1.7671	0.0130	1.5000	1.5000	

24	L-CC-29	150.0000	Circular	1.7671	0.0130	1.5000	1.5000
25	L-CC-28	172.0000	Circular	4.9087	0.0130	2.5000	2.5000
26	L-CC-31	30.0000	Circular	4.9087	0.0130	2.5000	2.5000
27	L-CC-27	60.0000	Circular	1.7671	0.0130	1.5000	1.5000
28	L-CC-26	52.0000	Circular	3.1416	0.0130	2.0000	2.0000
29	L-CC-30	14.0000	Circular	3.1416	0.0130	2.0000	2.0000
30	L-CC-25	60.0000	Circular	1.7671	0.0130	1.5000	1.5000
31	L-CC-32	30.0000	Circular	1.7671	0.0130	1.5000	1.5000
32	L-CC-38	150.0000	Circular	1.7671	0.0130	1.5000	1.5000
33	L-CC-33	172.0000	Circular	3.1416	0.0130	2.0000	2.0000
34	L-CC-34	30.0000	Circular	3.1416	0.0130	2.0000	2.0000
35	L-CC-37	55.0000	Circular	1.7671	0.0130	1.5000	1.5000
36	L-CC-36	80.0000	Circular	3.1416	0.0130	2.0000	2.0000
37	L-CC-35	90.0000	Circular	1.7671	0.0130	1.5000	1.5000
38	L-CC-39	30.0000	Circular	1.7671	0.0130	1.5000	1.5000
39	L-CC-46	36.0000	Circular	1.7671	0.0130	1.5000	1.5000
40	L-CC-45	80.0000	Circular	1.7671	0.0130	1.5000	1.5000
41	L-CC-57	43.0000	Circular	1.7671	0.0130	1.5000	1.5000
42	L-CC-40	80.0000	Rectangle	18.0000	0.0130	6.0000	3.0000
43	L-CC-43	149.0000	Rectangle	24.0000	0.0130	6.0000	4.0000
44	L-CC-44	48.0000	Rectangle	24.0000	0.0130	6.0000	4.0000
45	L-CC-42	40.0000	Circular	1.7671	0.0130	1.5000	1.5000
46	L-CC-49	55.0000	Circular	1.7671	0.0130	1.5000	1.5000
47	L-CC-48	96.0000	Circular	1.7671	0.0130	1.5000	1.5000
48	L-CC-47	53.0000	Circular	1.7671	0.0130	1.5000	1.5000
49	L-CC-56	35.0000	Circular	1.7671	0.0130	1.5000	1.5000
50	L-CD-1	18.0000	Circular	1.7671	0.0130	1.5000	1.5000
51	L-CD-2	18.0000	Circular	1.7671	0.0130	1.5000	1.5000
52	L-CD-3	18.0000	Circular	1.7671	0.0130	1.5000	1.5000
53	L-CD-4	18.0000	Circular	1.7671	0.0130	1.5000	1.5000
54	L-CD-5	18.0000	Circular	1.7671	0.0130	1.5000	1.5000
55	L-CD-6	18.0000	Circular	1.7671	0.0130	1.5000	1.5000
56	L-CD-7	18.0000	Circular	1.7671	0.0130	1.5000	1.5000
57	L-CD-8	18.0000	Circular	1.7671	0.0130	1.5000	1.5000
58	L-CD-9	18.0000	Circular	4.9087	0.0130	2.5000	2.5000
59	L-CD-10	18.0000	Circular	1.7671	0.0130	1.5000	1.5000
60	L-CD-11	18.0000	Circular	1.7671	0.0130	1.5000	1.5000
61	L-CD-13	73.0000	Circular	3.1416	0.0130	2.0000	2.0000
62	L-CD-12	178.0000	Circular	7.0686	0.0130	3.0000	3.0000
63	L-CJ-1	82.0000	Circular	12.5664	0.0130	4.0000	4.0000
64	L-CJ-27	100.0000	Circular	12.5664	0.0130	4.0000	4.0000
65	L-CJ-28	72.0000	Circular	12.5664	0.0130	4.0000	4.0000
66	L-CJ-2	20.0000	Circular	12.5664	0.0130	4.0000	4.0000
67	L-CJ-2a	74.0000	Circular	12.5664	0.0130	4.0000	4.0000
68	L-CJ-3	80.0000	Circular	12.5664	0.0130	4.0000	4.0000
69	L-CJ-29	82.0000	Rectangle	20.0000	0.0130	5.0000	4.0000
70	L-CJ-4	73.0000	Rectangle	20.0000	0.0130	5.0000	4.0000
71	L-CJ-5	68.0000	Rectangle	20.0000	0.0130	5.0000	4.0000
72	L-CJ-6	25.0000	Rectangle	20.0000	0.0130	5.0000	4.0000
73	L-CJ-6a	50.0000	Rectangle	20.0000	0.0130	5.0000	4.0000
74	L-CJ-7	73.0000	Rectangle	20.0000	0.0130	5.0000	4.0000
75	L-CJ-8	30.0000	Rectangle	20.0000	0.0130	5.0000	4.0000
76	L-CJ-8a	109.0000	Rectangle	25.0000	0.0130	5.0000	5.0000
77	L-CJ-9	40.0000	Rectangle	25.0000	0.0130	5.0000	5.0000
78	L-CJ-10	30.0000	Rectangle	25.0000	0.0130	5.0000	5.0000
79	L-CJ-11	70.0000	Rectangle	25.0000	0.0130	5.0000	5.0000
80	L-CJ-12	50.0000	Rectangle	25.0000	0.0130	5.0000	5.0000
81	L-CJ-12a	25.0000	Rectangle	25.0000	0.0130	5.0000	5.0000
82	L-CJ-13	125.0000	Rectangle	25.0000	0.0130	5.0000	5.0000
83	L-CJ-14	75.0000	Rectangle	25.0000	0.0130	5.0000	5.0000
84	L-CJ-15	96.0000	Rectangle	25.0000	0.0130	5.0000	5.0000
85	L-CJ-16	99.0000	Rectangle	25.0000	0.0130	5.0000	5.0000
86	L-CJ-17	51.0000	Rectangle	48.0000	0.0130	8.0000	6.0000
87	L-CC-50	48.0000	Circular	1.7671	0.0130	1.5000	1.5000
88	L-CC-52	45.0000	Circular	1.7671	0.0130	1.5000	1.5000
89	L-CC-51	48.0000	Circular	1.7671	0.0130	1.5000	1.5000
90	L-CC-53	186.0000	Circular	1.7671	0.0130	1.5000	1.5000
91	L-CC-54	35.0000	Circular	1.7671	0.0130	1.5000	1.5000
92	L-CC-55	35.0000	Circular	1.7671	0.0130	1.5000	1.5000
93	L-CD-14	18.0000	Circular	1.7671	0.0130	1.5000	1.5000
94	L-CD-15	18.0000	Circular	1.7671	0.0130	1.5000	1.5000
95	L-CD-16	18.0000	Circular	4.9087	0.0130	2.5000	2.5000
96	L-CD-17	18.0000	Circular	1.7671	0.0130	1.5000	1.5000
97	L-CD-18	18.0000	Circular	1.7671	0.0130	1.5000	1.5000
98	L-CD-19	18.0000	Circular	1.7671	0.0130	1.5000	1.5000
99	L-CD-20	18.0000	Circular	1.7671	0.0130	1.5000	1.5000
100	L-CD-21	18.0000	Circular	1.7671	0.0130	1.5000	1.5000
101	L-CD-22	18.0000	Circular	1.7671	0.0130	1.5000	1.5000
102	L-CD-23	18.0000	Circular	4.9087	0.0130	2.5000	2.5000
103	L-CD-24	18.0000	Circular	1.7671	0.0130	1.5000	1.5000
104	L-CD-27	18.0000	Circular	1.7671	0.0130	1.5000	1.5000
105	L-CD-28	18.0000	Circular	1.7671	0.0130	1.5000	1.5000
106	L-CD-29	18.0000	Circular	1.7671	0.0130	1.5000	1.5000
107	L-CD-30	18.0000	Circular	4.9087	0.0130	2.5000	2.5000
108	L-CD-31	18.0000	Circular	1.7671	0.0130	1.5000	1.5000
109	L-CD-32	20.0000	Circular	1.7671	0.0130	1.5000	1.5000
110	L-CE-1	115.0000	Circular	1.7671	0.0130	1.5000	1.5000
111	L-CE-2	155.0000	Circular	1.7671	0.0130	1.5000	1.5000
112	L-CE-3	144.0000	Circular	3.1416	0.0130	2.0000	2.0000
113	L-CE-4	111.0000	Circular	4.9087	0.0130	2.5000	2.5000
114	L-CE-5	75.0000	Circular	7.0686	0.0130	3.0000	3.0000
115	L-CE-6	35.0000	Circular	9.6211	0.0130	3.5000	3.5000
116	L-CE-7	171.0000	Circular	9.6211	0.0130	3.5000	3.5000
117	L-CE-8	40.0000	Circular	9.6211	0.0130	3.5000	3.5000
118	L-CE-9	45.0000	Circular	1.7671	0.0130	1.5000	1.5000
119	L-CE-11	45.0000	Circular	1.7671	0.0130	1.5000	1.5000
120	L-CE-10	50.0000	Circular	1.7671	0.0130	1.5000	1.5000
121	L-CF-1	150.0000	Circular	1.7671	0.0130	1.5000	1.5000
122	L-CF-2	145.0000	Circular	1.7671	0.0130	1.5000	1.5000
123	L-CF-3	100.0000	Circular	1.7671	0.0130	1.5000	1.5000
124	L-CG-1	129.0000	Circular	1.7671	0.0130	1.5000	1.5000
125	L-CG-2	117.0000	Circular	3.1416	0.0130	2.0000	2.0000
126	L-CG-3	115.0000	Circular	4.9087	0.0130	2.5000	2.5000
127	L-CG-8	150.0000	Circular	4.9087	0.0130	2.5000	2.5000
128	L-CG-9	30.0000	Circular	7.0686	0.0130	3.0000	3.0000
129	L-CG-10	65.0000	Circular	7.0686	0.0130	3.0000	3.0000
130	L-CG-11	85.0000	Circular	1.7671	0.0130	1.5000	1.5000
131	L-CG-6	114.0000	Circular	1.7671	0.0130	1.5000	1.5000
132	L-CG-5	88.0000	Circular	3.1416	0.0130	2.0000	2.0000
133	L-CG-4	159.0000	Circular	4.9087	0.0130	2.5000	2.5000
134	L-CG-7	90.0000	Circular	1.7671	0.0130	1.5000	1.5000
135	L-CH-1	95.0000	Circular	1.7671	0.0130	1.5000	1.5000
136	L-CH-2	55.0000	Circular	1.7671	0.0130	1.5000	1.5000
137	L-CH-3	35.0000	Circular	1.7671	0.0130	1.5000	1.5000
138	L-CK-1	106.0000	Circular	3.1416	0.0130	2.0000	2.0000
139	L-CK-2	80.0000	Circular	3.1416	0.0130	2.0000	2.0000
140	L-CK-3	25.0000	Circular	4.9087	0.0130	2.5000	2.5000
141	L-CK-4	218.0000	Circular	4.9087	0.0130	2.5000	2.5000
142	L-CK-5	42.0000	Circular	4.9087	0.0130	2.5000	2.5000
143	L-CK-6	150.0000	Circular	1.7671	0.0130	1.5000	1.5000
144	L-CK-7	150.0000	Circular	1.7671	0.0130	1.5000	1.5000
145	L-CK-8	55.0000	Circular	1.7671	0.0130	1.5000	1.5000
146	L-CK-9	65.0000	Circular	1.7671	0.0130	1.5000	1.5000
147	L-CL-9	108.0000	Circular	1.7671	0.0130	1.5000	1.5000
148	L-CL-1	85.0000	Circular	1.7671	0.0130	1.5000	1.5000
149	L-CL-2	47.0000	Circular	3.1416	0.0130	2.0000	2.0000
150	L-CL-3	115.0000	Circular	3.1416	0.0130	2.0000	2.0000
151	L-CL-8	97.0000	Circular	3.1416	0.0130	2.0000	2.0000

152	L-CL-4	90.0000	Circular	3.1416	0.0130	2.0000	2.0000
153	L-CL-4a	90.0000	Circular	3.1416	0.0130	2.0000	2.0000
154	L-CL-5	30.0000	Circular	4.9087	0.0130	2.5000	2.5000
155	L-CL-6	48.0000	Circular	4.9087	0.0130	2.5000	2.5000
156	L-CL-7	80.0000	Circular	1.7671	0.0130	1.5000	1.5000
157	L-CP-1	40.0000	Circular	1.7671	0.0130	1.5000	1.5000
158	L-CP-3	160.0000	Circular	1.7671	0.0130	1.5000	1.5000
159	L-CP-2	60.0000	Circular	1.7671	0.0130	1.5000	1.5000
160	L-CR-5	45.0000	Circular	3.1416	0.0130	2.0000	2.0000
161	L-CR-MH5	150.0000	Circular	7.0686	0.0130	3.0000	3.0000
162	L-CR-4	75.0000	Circular	38.4845	0.0130	7.0000	7.0000
163	L-CR-3	365.0000	Circular	44.1786	0.0130	7.5000	7.5000
164	L-CR-8	105.0000	Circular	44.1786	0.0130	7.5000	7.5000
165	L-CR-9	150.0000	Circular	44.1786	0.0130	7.5000	7.5000
166	L-CR-10	32.0000	Circular	56.7450	0.0130	8.5000	8.5000
167	L-CR-8a	32.0000	Circular	9.6211	0.0130	3.5000	3.5000
168	L-CR-41	186.0000	Circular	3.1416	0.0130	2.0000	2.0000
169	L-CR-34	32.0000	Circular	1.7671	0.0130	1.5000	1.5000
170	L-CR-32	70.0000	Circular	1.7671	0.0130	1.5000	1.5000
171	L-CR-MH32	70.0000	Circular	1.7671	0.0130	1.5000	1.5000
172	L-CR-33a	32.0000	Circular	1.7671	0.0130	1.5000	1.5000
173	L-CR-33	150.0000	Circular	3.1416	0.0130	2.0000	2.0000
174	L-CR-34a	160.0000	Circular	3.1416	0.0130	2.0000	2.0000
175	L-CR-11	180.0000	Circular	1.7671	0.0130	1.5000	1.5000
176	L-CR-28	85.0000	Circular	3.1416	0.0130	2.0000	2.0000
177	L-CR-27	87.0000	Circular	1.7671	0.0130	1.5000	1.5000
178	L-CR-29	173.0000	Circular	3.1416	0.0130	2.0000	2.0000
179	L-CR-30	170.0000	Circular	4.9087	0.0130	2.5000	2.5000
180	L-CR-31	32.0000	Circular	4.9087	0.0130	2.5000	2.5000
181	L-CR-45	64.0000	Circular	15.9043	0.0130	4.5000	4.5000
182	L-CR-88	65.0000	Circular	3.1416	0.0130	2.0000	2.0000
183	L-CR-40	41.0000	Circular	3.1416	0.0130	2.0000	2.0000
184	L-CR-39	71.0000	Circular	3.1416	0.0130	2.0000	2.0000
185	L-CR-37	78.0000	Circular	3.1416	0.0130	2.0000	2.0000
186	L-CR-22	18.0000	Circular	3.1416	0.0130	2.0000	2.0000
187	L-CR-21	60.0000	Circular	3.1416	0.0130	2.0000	2.0000
188	L-CR-25	32.0000	Circular	3.1416	0.0130	2.0000	2.0000
189	L-CR-24	80.0000	Circular	1.7671	0.0130	1.5000	1.5000
190	L-CR-15	80.0000	Circular	1.7671	0.0130	1.5000	1.5000
191	L-CR-13	130.0000	Circular	1.7671	0.0130	1.5000	1.5000
192	L-CR-14	111.0000	Circular	3.1416	0.0130	2.0000	2.0000
193	L-CR-16	109.0000	Circular	3.1416	0.0130	2.0000	2.0000
194	L-CR-35	100.0000	Circular	1.7671	0.0130	1.5000	1.5000
195	L-CR-36	125.0000	Circular	3.1416	0.0130	2.0000	2.0000
196	L-CR-38	125.0000	Circular	4.9087	0.0130	2.5000	2.5000
197	L-CR-20	125.0000	Circular	7.0686	0.0130	3.0000	3.0000
198	L-CR-19	225.0000	Circular	7.0686	0.0130	3.0000	3.0000
199	L-CR-18	100.0000	Circular	7.0686	0.0130	3.0000	3.0000
200	L-CR-17	80.0000	Circular	9.6211	0.0130	3.5000	3.5000
201	L-CR-23	125.0000	Circular	9.6211	0.0130	3.5000	3.5000
202	L-CR-6	90.0000	Circular	9.6211	0.0130	3.5000	3.5000
203	L-CR-10a	87.0000	Circular	56.7450	0.0130	8.5000	8.5000
204	L-CR-12	220.0000	Rectangle	36.0000	0.0130	6.0000	6.0000
205	L-CR-97	340.0000	Rectangle	54.0000	0.0130	9.0000	6.0000
206	L-CR-98	9.0000	Rectangle	54.0000	0.0130	9.0000	6.0000
207	L-CJ-18	100.0000	Rectangle	48.0000	0.0130	8.0000	6.0000
208	L-CJ-19	50.0000	Rectangle	48.0000	0.0130	8.0000	6.0000
209	L-CJ-20	63.0000	Rectangle	48.0000	0.0130	8.0000	6.0000
210	L-CJ-21	50.0000	Rectangle	48.0000	0.0130	8.0000	6.0000
211	L-CJ-22	95.0000	Rectangle	48.0000	0.0130	8.0000	6.0000
212	L-CJ-23	103.0000	Rectangle	48.0000	0.0130	8.0000	6.0000
213	L-CJ-24	45.0000	Rectangle	48.0000	0.0130	8.0000	6.0000
214	L-CJ-25	100.0000	Rectangle	48.0000	0.0130	8.0000	6.0000
215	L-CJ-26	71.0000	Rectangle	48.0000	0.0130	8.0000	6.0000
216	L-CJ-30	79.0000	Rectangle	48.0000	0.0130	8.0000	6.0000
217	L-CJ-31	12.0000	Rectangle	54.0000	0.0130	9.0000	6.0000
218	L-CJ-32	133.0000	Rectangle	54.0000	0.0130	9.0000	6.0000
219	L-CJ-33	53.0000	Rectangle	54.0000	0.0130	9.0000	6.0000
220	L-CJ-35	98.0000	Rectangle	54.0000	0.0130	9.0000	6.0000
221	L-CJ-37	95.0000	Rectangle	54.0000	0.0130	9.0000	6.0000
222	L-CJ-37a	46.0000	Rectangle	54.0000	0.0130	9.0000	6.0000
223	L-CJ-37b	55.0000	Rectangle	54.0000	0.0130	9.0000	6.0000
224	L-CJ-37c	96.0000	Rectangle	54.0000	0.0130	9.0000	6.0000
225	L-CJ-38	100.0000	Rectangle	54.0000	0.0130	9.0000	6.0000
226	L-CJ-39	50.0000	Rectangle	54.0000	0.0130	9.0000	6.0000
227	L-CJ-40	50.0000	Rectangle	54.0000	0.0130	9.0000	6.0000
228	L-CJ-41	145.0000	Rectangle	60.0000	0.0130	10.0000	6.0000
229	L-CJ-43	148.0000	Rectangle	60.0000	0.0130	10.0000	6.0000
230	L-CJ-45	98.0000	Rectangle	60.0000	0.0130	10.0000	6.0000
231	L-CJ-46	48.0000	Rectangle	60.0000	0.0130	10.0000	6.0000
232	L-CJ-47	148.0000	Rectangle	60.0000	0.0130	10.0000	6.0000
233	L-CJ-48	39.0000	Rectangle	36.0000	0.0130	6.0000	6.0000
234	L-CJ-49	108.0000	Rectangle	36.0000	0.0130	6.0000	6.0000
235	L-CJ-50	60.0000	Rectangle	36.0000	0.0130	6.0000	6.0000
236	L-CJ-51	86.0000	Rectangle	36.0000	0.0130	6.0000	6.0000
237	L-CJ-52	68.0000	Rectangle	36.0000	0.0130	6.0000	6.0000
238	L-CJ-53	45.0000	Rectangle	36.0000	0.0130	6.0000	6.0000
239	L-CJ-53a	73.0000	Rectangle	36.0000	0.0130	6.0000	6.0000
240	L-CJ-54	120.0000	Rectangle	36.0000	0.0130	6.0000	6.0000
241	L-CJ-55	150.0000	Rectangle	36.0000	0.0130	6.0000	6.0000
242	L-CJ-56	150.0000	Rectangle	36.0000	0.0130	6.0000	6.0000
243	L-CJ-57	173.0000	Rectangle	36.0000	0.0130	6.0000	6.0000
244	L-CJ-58	60.0000	Rectangle	64.0000	0.0130	8.0000	8.0000
245	L-CK-2a	60.0000	Circular	3.1416	0.0130	2.0000	2.0000
246	L-CR-18.1	60.0000	Circular	4.9087	0.0130	2.5000	2.5000
247	Link552	294.0000	Rectangle	18.0000	0.0130	6.0000	3.0000
248	Link553	38.0000	Circular	1.7671	0.0130	1.5000	1.5000

Total length of all conduits .... 19753.0000 feet

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| Table E2 - Conduit Factor Data |
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Conduit Name	Number of Barrels	Entrance Loss Coef	Exit Loss Coef	Exp/Contc Coefficnt	Time Weighting Parameter	Low Flow Roughness Factor	Depth at Which n Changes	Flow Routing
L-CJ-48	2.0000	0.0000	0.0000	0.0000	0.6500	1.0000	0.0000	Standard - Dynamic Wave
L-CJ-49	2.0000	0.0000	0.0000	0.0000	0.6500	1.0000	0.0000	Standard - Dynamic Wave
L-CJ-50	2.0000	0.0000	0.0000	0.0000	0.6500	1.0000	0.0000	Standard - Dynamic Wave
L-CJ-51	2.0000	0.0000	0.0000	0.0000	0.6500	1.0000	0.0000	Standard - Dynamic Wave
L-CJ-52	2.0000	0.0000	0.0000	0.0000	0.6500	1.0000	0.0000	Standard - Dynamic Wave
L-CJ-53	2.0000	0.0000	0.0000	0.0000	0.6500	1.0000	0.0000	Standard - Dynamic Wave
L-CJ-53a	2.0000	0.0000	0.0000	0.0000	0.6500	1.0000	0.0000	Standard - Dynamic Wave
L-CJ-54	2.0000	0.0000	0.0000	0.0000	0.6500	1.0000	0.0000	Standard - Dynamic Wave
L-CJ-55	2.0000	0.0000	0.0000	0.0000	0.6500	1.0000	0.0000	Standard - Dynamic Wave
L-CJ-56	2.0000	0.0000	0.0000	0.0000	0.6500	1.0000	0.0000	Standard - Dynamic Wave
L-CJ-57	2.0000	0.0000	0.0000	0.0000	0.6500	1.0000	0.0000	Standard - Dynamic Wave
L-CJ-58	2.0000	0.0000	0.0000	0.0000	0.6500	1.0000	0.0000	Standard - Dynamic Wave

==
| If there are messages about (sqrt(g*d)*dt/dx), or |
| the sqrt(wave celerity)*time step/conduit length |
| in the output file all it means is that the |
| program will lower the internal time step to |
| satisfy this condition (explicit condition). |
| You control the actual internal time step by |
| using the minimum courant time step factor in the |

| HYDRAULICS job control. The message put in words |
| states that the smallest conduit with the fastest |
| velocity will control the time step selection. |
| You have further control by using the modify |
| conduit option in the HYDRAULICS Job Control. |

Conduit Name	Courant Ratio	
L-CC-3	0.69	
L-CC-2	0.69	
L-CC-1	1.36	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CC-4	0.47	
L-CC-5	1.45	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CC-8	2.78	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CC-7	1.01	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CC-6	1.34	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CC-9	1.18	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CC-11	2.78	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CC-12	0.95	
L-CC-13	1.46	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CC-14	1.29	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CC-21	0.73	
L-CC-20	0.95	
L-CC-19	0.47	
L-CC-22	2.51	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CC-18	0.69	
L-CC-17	1.16	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CC-16	1.15	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CC-15	0.69	
L-CC-23	2.17	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CC-24	2.32	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CC-29	0.46	
L-CC-28	0.52	
L-CC-31	2.99	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CC-27	1.16	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CC-26	1.54	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CC-30	5.73	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CC-25	1.16	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CC-32	2.32	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CC-38	0.46	
L-CC-33	0.47	
L-CC-34	2.67	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CC-37	1.26	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CC-36	1.00	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CC-35	0.77	
L-CC-39	2.32	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CC-46	1.93	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CC-45	0.87	
L-CC-57	1.62	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CC-40	1.23	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CC-43	0.76	
L-CC-44	2.36	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CC-42	1.74	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CC-49	1.26	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CC-48	0.72	
L-CC-47	1.31	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CC-56	1.99	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CD-1	3.86	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CD-2	3.86	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CD-3	3.86	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CD-4	3.86	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CD-5	3.86	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CD-6	3.86	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CD-7	3.86	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CD-8	3.86	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CD-9	4.98	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CD-10	3.86	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CD-11	3.86	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CD-13	1.10	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CD-12	0.55	
L-CJ-1	1.38	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CJ-27	1.13	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CJ-28	1.58	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CJ-2	5.67	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CJ-2a	1.53	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CJ-3	1.42	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CJ-29	1.38	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CJ-4	1.55	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CJ-5	1.67	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CJ-6	4.54	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CJ-6a	2.27	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CJ-7	1.55	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CJ-8	3.78	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CJ-8a	1.16	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CJ-9	3.17	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CJ-10	4.23	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CJ-11	1.81	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CJ-12	2.54	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CJ-12a	5.08	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CJ-13	1.02	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CJ-14	1.69	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CJ-15	1.32	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CJ-16	1.28	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CJ-17	2.73	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CC-50	1.45	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CC-52	1.54	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CC-51	1.45	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CC-53	0.37	
L-CC-54	1.99	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CC-55	1.99	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CD-14	3.86	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CD-15	3.86	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CD-16	4.98	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CD-17	3.86	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CD-18	3.86	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CD-19	3.86	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CD-20	3.86	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CD-21	3.86	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CD-22	3.86	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CD-23	4.98	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CD-24	3.86	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CD-27	3.86	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CD-28	3.86	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CD-29	3.86	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CD-30	4.98	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CD-31	3.86	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CD-32	3.47	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CE-1	0.60	
L-CE-2	0.45	
L-CE-3	0.56	
L-CE-4	0.81	
L-CE-5	1.31	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CE-6	3.03	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CE-7	0.62	
L-CE-8	2.65	===> Warning ! (sqrt(wave celerity)*time step/conduit length)

L-CE-9	1.54	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CE-11	1.54	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CE-10	1.39	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CF-1	0.46	
L-CF-2	0.48	
L-CF-3	0.69	
L-CG-1	0.54	
L-CG-2	0.69	
L-CG-3	0.78	
L-CG-8	0.60	
L-CG-9	3.28	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CG-10	1.51	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CG-11	0.82	
L-CG-6	0.61	
L-CG-5	0.91	
L-CG-4	0.56	
L-CG-7	0.77	
L-CH-1	0.73	
L-CH-2	1.26	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CH-3	1.99	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CK-1	0.76	
L-CK-2	1.00	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CK-3	3.59	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CK-4	0.41	
L-CK-5	2.14	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CK-6	0.46	
L-CK-7	0.46	
L-CK-8	1.26	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CK-9	1.07	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CL-9	0.64	
L-CL-1	0.82	
L-CL-2	1.71	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CL-3	0.70	
L-CL-8	0.83	
L-CL-4	0.89	
L-CL-4a	0.89	
L-CL-5	2.99	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CL-6	1.87	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CL-7	0.87	
L-CP-1	1.74	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CP-3	0.43	
L-CP-2	1.16	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CR-5	1.78	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CR-MH5	0.66	
L-CR-4	2.00	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CR-3	0.43	
L-CR-8	1.48	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CR-9	1.04	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CR-10	5.17	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CR-8a	3.32	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CR-41	0.43	
L-CR-34	2.17	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CR-32	0.99	
L-CR-MH32	0.99	
L-CR-33a	2.17	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CR-33	0.53	
L-CR-34a	0.50	
L-CR-11	0.39	
L-CR-28	0.94	
L-CR-27	0.80	
L-CR-29	0.46	
L-CR-30	0.53	
L-CR-31	2.80	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CR-45	1.88	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CR-88	1.23	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CR-40	1.96	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CR-39	1.13	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CR-37	1.03	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CR-22	4.46	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CR-21	1.34	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CR-25	2.51	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CR-24	0.87	
L-CR-15	0.87	
L-CR-13	0.53	
L-CR-14	0.72	
L-CR-16	0.74	
L-CR-35	0.69	
L-CR-36	0.64	
L-CR-38	0.72	
L-CR-20	0.79	
L-CR-19	0.44	
L-CR-18	0.98	
L-CR-17	1.33	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CR-23	0.85	
L-CR-6	1.18	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CR-10a	1.90	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CR-12	0.63	
L-CR-97	0.41	
L-CR-98	15.44	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CJ-18	1.39	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CJ-19	2.78	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CJ-20	2.21	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CJ-21	2.78	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CJ-22	1.46	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CJ-23	1.35	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CJ-24	3.09	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CJ-25	1.39	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CJ-26	1.96	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CJ-30	1.76	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CJ-31	11.58	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CJ-32	1.05	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CJ-33	2.62	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CJ-35	1.42	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CJ-37	1.46	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CJ-37a	3.02	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CJ-37b	2.53	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CJ-37c	1.45	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CJ-38	1.39	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CJ-39	2.78	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CJ-40	2.78	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CJ-41	0.96	
L-CJ-43	0.94	
L-CJ-45	1.42	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CJ-46	2.90	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CJ-47	0.94	
L-CJ-48	3.56	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CJ-49	1.29	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CJ-50	2.32	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CJ-51	1.62	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CJ-52	2.04	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CJ-53	3.09	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CJ-53a	1.90	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CJ-54	1.16	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CJ-55	0.93	
L-CJ-56	0.93	
L-CJ-57	0.80	
L-CJ-58	2.67	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CK-2a	1.34	===> Warning ! (sqrt(wave celerity)*time step/conduit length)

```
      L-CR-18.1        1.50  ===> Warning ! (sqrt(wave celerity)*time step/conduit length)
        Link552        0.33
        Link553        1.83  ===> Warning ! (sqrt(wave celerity)*time step/conduit length)

*==================*
|  Conduit Volume  |
*==================*

Full pipe or full open conduit volume
Input full depth volume.............    3.0888E+05 cubic feet

===> Warning !! The upstream and downstream junctions for the following conduits
                have been reversed to correspond to the positive flow and decreasing
                slope convention.  A negative flow in the output thus means
                the flow was from your original upstream junction to your original
                downstream junction.  Any initial flow has been multiplied by -1.

                1.  Conduit #...L-CC-57     has been changed.
                2.  Conduit #...L-CC-49     has been changed.


*================================================*
|          Table E3a - Junction Data             |
*================================================*

Inp          Junction     Ground     Crown     Invert    Qinst  Initial  Interface
Num            Name     Elevation Elevation Elevation      cfs Depth-ft   Flow (%)
---  ---------------  --------- --------- --------- -------- --------  ---------
  1            CJ-10   106.8600  106.8600   94.5000   0.0000   0.0000   100.0000
  2            CJ-12   106.7600  106.7600   94.3900   0.0000   0.0000   100.0000
  3            CJ-14   106.7000  106.7000   94.1500   0.0000   0.0000   100.0000
  4            CC-48   106.1000  106.1000  100.5400   0.0000   0.0000   100.0000
  5             CC-6   121.4400  121.4400   99.5000   0.0000   0.0000   100.0000
  6             CC-5   123.4400  123.4400   97.3000   0.0000   0.0000   100.0000
  7             CC-1   104.0300  104.0300   98.0300   0.0000   0.0000   100.0000
  8             CC-8   121.5000  121.5000  118.6000   0.0000   0.0000   100.0000
  9             CJ-1   106.6100  106.6100   96.6000   0.0000   0.0000   100.0000
 10             CC-9   119.3900  119.3900   98.7300   0.0000   0.0000   100.0000
 11             CC-2   106.8100  106.8100  102.3100   0.0000   0.0000   100.0000
 12             CC-3   108.4400  108.4400  103.9400   0.0000   0.0000   100.0000
 13             CC-7   121.5000  121.5000  118.0300   0.0000   0.0000   100.0000
 14            CJ-2A   195.5000  195.5000   96.3000   0.0000   0.0000   100.0000
 15             CJ-2   106.6500  106.6500   96.3200   0.0000   0.0000   100.0000
 16             CJ-3   107.5300  107.5300   96.1800   0.0000   0.0000   100.0000
 17             CD-1   107.0300  107.0300  101.0300   0.0000   0.0000   100.0000
 18             CD-2   106.8000  106.8000  100.8200   0.0000   0.0000   100.0000
 19             CJ-5   106.8000  106.8000   94.9300   0.0000   0.0000   100.0000
 20             CJ-4   107.0300  107.0300   95.0000   0.0000   0.0000   100.0000
 21             CD-3   106.7100  106.7100  100.7100   0.0000   0.0000   100.0000
 22             CJ-6   106.7100  106.7100   94.8600   0.0000   0.0000   100.0000
 23             CD-4   106.8300  106.8300  100.8300   0.0000   0.0000   100.0000
 24             CJ-7   106.8300  106.8300   94.7800   0.0000   0.0000   100.0000
 25             CD-5   107.0600  107.0600  101.0600   0.0000   0.0000   100.0000
 26             CJ-8   107.0600  107.0600   94.7000   0.0000   0.0000   100.0000
 27             CD-6   107.0700  107.0700  101.0700   0.0000   0.0000   100.0000
 28             CD-7   106.8600  106.8600  100.8600   0.0000   0.0000   100.0000
 29            CC-32   123.2100  123.2100   97.7100   0.0000   0.0000   100.0000
 30            CJ-8a   195.5000  195.5000   94.6600   0.0000   0.0000   100.0000
 31            CC-31   119.8400  119.8400   97.3400   0.0000   0.0000   100.0000
 32            CJ-6a   195.5000  195.5000   94.8300   0.0000   0.0000   100.0000
 33            CC-24   117.2900  117.2900   98.0000   0.0000   0.0000   100.0000
 34            CC-23   116.5000  116.5000   98.0000   0.0000   0.0000   100.0000
 35            CC-22   116.2900  116.2900   97.9400   0.0000   0.0000   100.0000
 36            CJ-29   106.6300  106.6300   95.0900   0.0000   0.0000   100.0000
 37            CC-14   116.2200  116.2200  100.5000   0.0000   0.0000   100.0000
 38            CC-13   116.5700  116.5700  100.5000   0.0000   0.0000   100.0000
 39            CC-12   116.5700  116.5700  112.1400   0.0000   0.0000   100.0000
 40            CC-11   116.5700  116.5700  112.6900   0.0000   0.0000   100.0000
 41            CC-10   117.7200  117.7200  100.0000   0.0000   0.0000   100.0000
 42            CJ-28   106.8000  106.8000   96.4000   0.0000   0.0000   100.0000
 43            CJ-27   107.0500  107.0500   96.5100   0.0000   0.0000   100.0000
 44            CC-15   108.7800  108.7800  102.7800   0.0000   0.0000   100.0000
 45            CC-16   108.4800  108.4800  102.0000   0.0000   0.0000   100.0000
 46            CC-17   108.3000  108.3000  102.8500   0.0000   0.0000   100.0000
 47            CC-18   107.9300  107.9300  103.4300   0.0000   0.0000   100.0000
 48            CC-19   116.6200  116.6200  101.7700   0.0000   0.0000   100.0000
 49            CC-20   116.6900  116.6900  110.2400   0.0000   0.0000   100.0000
 50            CC-21   117.5100  117.5100  110.5200   0.0000   0.0000   100.0000
 51            CC-28   120.0800  120.0800  100.2900   0.0000   0.0000   100.0000
 52            CC-29   123.4000  123.4000  115.6000   0.0000   0.0000   100.0000
 53            CC-25   107.1000  107.1000  102.6000   0.0000   0.0000   100.0000
 54            CC-26   106.9900  106.9900  100.4900   0.0000   0.0000   100.0000
 55            CC-27   107.0900  107.0900  102.5900   0.0000   0.0000   100.0000
 56             CD-8   106.7600  106.7600  100.7600   0.0000   0.0000   100.0000
 57             CD-9   106.8500  106.8500  100.8500   0.0000   0.0000   100.0000
 58            CJ-13   106.8500  106.8500   94.3100   0.0000   0.0000   100.0000
 59            CC-35   107.0300  107.0300  102.5300   0.0000   0.0000   100.0000
 60            CC-33   126.3500  126.3500   99.8600   0.0000   0.0000   100.0000
 61            CC-36   106.8200  106.8200  100.8200   0.0000   0.0000   100.0000
 62            CC-37   106.9200  106.9200  102.4200   0.0000   0.0000   100.0000
 63            CC-38   128.4100  128.4100  121.6400   0.0000   0.0000   100.0000
 64            CC-39   128.1600  128.1600   97.8900   0.0000   0.0000   100.0000
 65            CD-10   106.7000  106.7000  100.7000   0.0000   0.0000   100.0000
 66            CJ-15   106.7000  106.7000   94.0900   0.0000   0.0000   100.0000
 67            CD-11   106.3700  106.3700  100.3700   0.0000   0.0000   100.0000
 68            CJ-16   106.3700  106.3700   93.9900   0.0000   0.0000   100.0000
 69            CJ-17   105.8400  105.8400   92.8800   0.0000   0.0000   100.0000
 70             CC-4   103.7800  103.7800   97.8400   0.0000   0.0000   100.0000
 71            CJ-11   106.8600  106.8600   94.4600   0.0000   0.0000   100.0000
 72             CJ-9   107.0700  107.0700   94.5400   0.0000   0.0000   100.0000
 73           CJ-12a   106.8500  106.8500   94.3200   0.0000   0.0000   100.0000
 74            CC-44   106.4900  106.4900   94.9800   0.0000   0.0000   100.0000
 75            CC-34   126.1000  126.1000   97.4200   0.0000   0.0000   100.0000
 76            CC-40   106.0300  106.0300   95.4000   0.0000   0.0000   100.0000
 77            CC-43   106.4700  106.4700   95.2500   0.0000   0.0000   100.0000
 78            CC-46   106.6500  106.6500  101.1500   0.0000   0.0000   100.0000
 79            CC-45   106.4000  106.4000  101.0400   0.0000   0.0000   100.0000
 80            CC-57   105.9000  105.9000  100.8000   0.0000   0.0000   100.0000
 81            CC-42   105.9700  105.9700  101.8700   0.0000   0.0000   100.0000
 82            CD-12   105.8400  105.8400   99.2600   0.0000   0.0000   100.0000
 83            CD-13   105.8400  105.8400  100.4000   0.0000   0.0000   100.0000
 84            CC-30   105.8200  105.8200  100.3300   0.0000   0.0000   100.0000
 85            CC-49   106.2000  106.2000  100.5200   0.0000   0.0000   100.0000
 86            CC-47   106.1000  106.1000  100.2500   0.0000   0.0000   100.0000
 87            CJ-21   106.1100  106.1100   92.5900   0.0000   0.0000   100.0000
 88            CJ-24   104.2100  104.2100   92.2900   0.0000   0.0000   100.0000
 89            CJ-33   103.4100  103.4100   91.7800   0.0000   0.0000   100.0000
 90            CE-10   116.9800  116.9800   97.7700   0.0000   0.0000   100.0000
 91            CD-23   102.8100  102.8100   96.8100   0.0000   0.0000   100.0000
 92            CJ-47   101.1000  101.1000   90.5700   0.0000   0.0000   100.0000
 93            CD-29   102.2400  102.2400   96.2400   0.0000   0.0000   100.0000
 94            CR-98   195.5000  195.5000   87.2800   0.0000   0.0000   100.0000
 95            CR-97   102.2000  102.2000   87.7600   0.0000   0.0000   100.0000
 96            CE-11   123.6800  123.6800   97.3100   0.0000   0.0000   100.0000
 97            CR-23   102.5000  102.5000   90.9900   0.0000   0.0000   100.0000
 98            CR-35   100.4800  100.4800   95.9500   0.0000   0.0000   100.0000
 99            CR-37   113.2400  113.2400   93.9700   0.0000   0.0000   100.0000
100            CR-38   100.1000  100.1000   93.3100   0.0000   0.0000   100.0000
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101	CR-22	118.5700	118.5700	94.5500	0.0000	0.0000	100.0000
102	CR-20	100.7300	100.7300	92.5600	0.0000	0.0000	100.0000
103	CR-41	121.8300	121.8300	114.8300	0.0000	0.0000	100.0000
104	CR-10	122.0300	122.0300	89.5000	0.0000	0.0000	100.0000
105	CR-88	124.2000	124.2000	117.2000	0.0000	0.0000	100.0000
106	CR-24	102.4800	102.4800	96.4800	0.0000	0.0000	100.0000
107	CE-1	105.5700	105.5700	99.9000	0.0000	0.0000	100.0000
108	CD-15	105.1200	105.1200	97.5000	0.0000	0.0000	100.0000
109	CD-31	101.8100	101.8100	95.6000	0.0000	0.0000	100.0000
110	CR-13	102.2600	102.2600	96.7600	0.0000	0.0000	100.0000
111	CR-17	103.3000	103.3000	91.1600	0.0000	0.0000	100.0000
112	CJ-53a	101.9000	101.9000	89.9500	0.0000	0.0000	100.0000
113	CJ-50	102.2400	102.2400	90.2400	0.0000	0.0000	100.0000
114	CJ-49	102.2400	102.2400	90.3600	0.0000	0.0000	100.0000
115	CR-14	102.6500	102.6500	94.6500	0.0000	0.0000	100.0000
116	CG-11	116.8400	116.8400	97.7000	0.0000	0.0000	100.0000
117	CJ-40	102.4100	102.4100	91.1200	0.0000	0.0000	100.0000
118	CG-1	103.9300	103.9300	99.2400	0.0000	0.0000	100.0000
119	CJ-37	103.0100	103.0100	91.6200	0.0000	0.0000	100.0000
120	CE-7	120.3100	120.3100	95.0100	0.0000	0.0000	100.0000
121	CE-5	103.9300	103.9300	95.7300	0.0000	0.0000	100.0000
122	CE-4	103.4500	103.4500	96.4500	0.0000	0.0000	100.0000
123	CJ-45	102.7100	102.7100	90.7300	0.0000	0.0000	100.0000
124	CD-24	102.4100	102.4100	96.4100	0.0000	0.0000	100.0000
125	CC-50	106.1000	106.1000	100.9600	0.0000	0.0000	100.0000
126	CJ-18	106.1100	106.1100	92.8200	0.0000	0.0000	100.0000
127	CJ-20	106.1100	106.1100	92.6500	0.0000	0.0000	100.0000
128	CC-51	106.4600	106.4600	100.5500	0.0000	0.0000	100.0000
129	CC-52	106.1900	106.1900	100.6900	0.0000	0.0000	100.0000
130	CD-14	106.1100	106.1100	99.3000	0.0000	0.0000	100.0000
131	CJ-22	105.1200	105.1200	92.5100	0.0000	0.0000	100.0000
132	CC-53	127.9200	127.9200	122.2000	0.0000	0.0000	100.0000
133	CC-55	124.8900	124.8900	98.5000	0.0000	0.0000	100.0000
134	CJ-25	104.2100	104.2100	92.2300	0.0000	0.0000	100.0000
135	CD-16	104.2100	104.2100	97.5000	0.0000	0.0000	100.0000
136	CJ-26	103.3200	103.3200	92.1200	0.0000	0.0000	100.0000
137	CD-17	103.3200	103.3200	97.3200	0.0000	0.0000	100.0000
138	CJ-30	103.3200	103.3200	92.0400	0.0000	0.0000	100.0000
139	CD-18	103.5400	103.5400	97.5400	0.0000	0.0000	100.0000
140	CJ-32	103.5400	103.5400	91.9400	0.0000	0.0000	100.0000
141	CJ-31	103.5400	103.5400	91.9500	0.0000	0.0000	100.0000
142	CE-2	105.0700	105.0700	99.5700	0.0000	0.0000	100.0000
143	CE-3	104.2700	104.2700	97.7700	0.0000	0.0000	100.0000
144	CE-9	124.6000	124.6000	98.6500	0.0000	0.0000	100.0000
145	CE-6	102.5000	102.5000	95.0800	0.0000	0.0000	100.0000
146	CD-19	103.4100	103.4100	97.4100	0.0000	0.0000	100.0000
147	CD-20	103.0100	103.0100	97.0100	0.0000	0.0000	100.0000
148	CF-1	117.7500	117.7500	109.5100	0.0000	0.0000	100.0000
149	CF-2	117.4200	117.4200	109.0600	0.0000	0.0000	100.0000
150	CD-21	102.6100	102.6100	96.6100	0.0000	0.0000	100.0000
151	CJ-37a	102.6100	102.6100	91.5100	0.0000	0.0000	100.0000
152	CD-22	102.9100	102.9100	96.9100	0.0000	0.0000	100.0000
153	CJ-37c	102.9100	102.9100	91.4000	0.0000	0.0000	100.0000
154	CJ-37b	195.5000	195.5000	91.4600	0.0000	0.0000	100.0000
155	CG-2	102.6200	102.6200	97.6200	0.0000	0.0000	100.0000
156	CG-4	103.1100	103.1100	95.9100	0.0000	0.0000	100.0000
157	CG-7	114.4400	114.4400	97.2800	0.0000	0.0000	100.0000
158	CG-3	103.2300	103.2300	95.5900	0.0000	0.0000	100.0000
159	CG-8	114.5900	114.5900	95.1300	0.0000	0.0000	100.0000
160	CG-9	114.5900	114.5900	94.0000	0.0000	0.0000	100.0000
161	CG-10	101.5000	101.5000	93.9100	0.0000	0.0000	100.0000
162	CH-1	102.9100	102.9100	96.5000	0.0000	0.0000	100.0000
163	CJ-38	102.9100	102.9100	91.2900	0.0000	0.0000	100.0000
164	CH-2	116.8700	116.8700	96.5000	0.0000	0.0000	100.0000
165	CH-3	107.6500	107.6500	95.4600	0.0000	0.0000	100.0000
166	CJ-41	102.4100	102.4100	91.0600	0.0000	0.0000	100.0000
167	CK-1	102.9100	102.9100	97.9100	0.0000	0.0000	100.0000
168	CK-2	103.3100	103.3100	96.8100	0.0000	0.0000	100.0000
169	CK-3	102.0000	102.0000	96.1500	0.0000	0.0000	100.0000
170	CK-4	118.5100	118.5100	96.1000	0.0000	0.0000	100.0000
171	CJ-43	102.7100	102.7100	90.9000	0.0000	0.0000	100.0000
172	CK-5	115.6300	115.6300	94.0600	0.0000	0.0000	100.0000
173	CK-6	121.6600	121.6600	115.6700	0.0000	0.0000	100.0000
174	CK-7	120.0100	120.0100	114.1100	0.0000	0.0000	100.0000
175	CD-27	102.4100	102.4100	96.4100	0.0000	0.0000	100.0000
176	CK-8	119.5800	119.5800	96.7500	0.0000	0.0000	100.0000
177	CD-28	102.7100	102.7100	96.7100	0.0000	0.0000	100.0000
178	CJ-46	102.7100	102.7100	90.6200	0.0000	0.0000	100.0000
179	CK-9	121.4100	121.4100	96.7500	0.0000	0.0000	100.0000
180	CJ-48	101.1000	101.1000	90.4000	0.0000	0.0000	100.0000
181	CL-6	101.1000	101.1000	93.4300	0.0000	0.0000	100.0000
182	CL-5	123.1700	123.1700	94.1100	0.0000	0.0000	100.0000
183	CL-4a	124.5000	124.5000	94.6700	0.0000	0.0000	100.0000
184	CL-4	123.1700	123.1700	95.2300	0.0000	0.0000	100.0000
185	CL-8	102.5700	102.5700	95.9500	0.0000	0.0000	100.0000
186	CL-3	102.1900	102.1900	96.1900	0.0000	0.0000	100.0000
187	CL-2	102.2600	102.2600	96.2600	0.0000	0.0000	100.0000
188	CL-1	103.4300	103.4300	97.0200	0.0000	0.0000	100.0000
189	CL-9	102.5700	102.5700	97.2400	0.0000	0.0000	100.0000
190	CL-7	124.6700	124.6700	94.4300	0.0000	0.0000	100.0000
191	CD-30	101.6000	101.6000	95.6000	0.0000	0.0000	100.0000
192	CJ-51	101.8100	101.8100	90.1700	0.0000	0.0000	100.0000
193	CJ-52	101.8100	101.8100	90.0700	0.0000	0.0000	100.0000
194	CP-1	103.2300	103.2300	97.2300	0.0000	0.0000	100.0000
195	CJ-53	101.8100	101.8100	90.0000	0.0000	0.0000	100.0000
196	CR-25	125.6800	125.6800	94.6800	0.0000	0.0000	100.0000
197	CR-15	102.5700	102.5700	96.5700	0.0000	0.0000	100.0000
198	CR-16	102.9800	102.9800	94.3200	0.0000	0.0000	100.0000
199	CR-18	103.2500	103.2500	91.8000	0.0000	0.0000	100.0000
200	CR-19	102.1300	102.1300	92.3200	0.0000	0.0000	100.0000
201	CR-21	99.1000	99.1000	93.5600	0.0000	0.0000	100.0000
202	CR-36	100.1500	100.1500	95.1500	0.0000	0.0000	100.0000
203	CR-6	103.5400	103.5400	90.7500	0.0000	0.0000	100.0000
204	CR-8	98.5000	98.5000	89.7000	0.0000	0.0000	100.0000
205	CR-8a	98.5000	98.5000	90.3500	0.0000	0.0000	100.0000
206	CR-9	124.2200	124.2200	89.6000	0.0000	0.0000	100.0000
207	CR-10a	122.5000	122.5000	89.1500	0.0000	0.0000	100.0000
208	CR-45	102.0000	102.0000	88.5400	0.0000	0.0000	100.0000
209	CR-31	101.9100	101.9100	92.5000	0.0000	0.0000	100.0000
210	CR-30	101.0600	101.0600	93.0100	0.0000	0.0000	100.0000
211	CR-29	100.2900	100.2900	94.0200	0.0000	0.0000	100.0000
212	CR-33	99.5000	99.5000	94.2000	0.0000	0.0000	100.0000
213	CR-27	100.5600	100.5600	96.0600	0.0000	0.0000	100.0000
214	CR-33a	126.5000	126.5000	94.3000	0.0000	0.0000	100.0000
215	CR-34a	99.5000	99.5000	93.7500	0.0000	0.0000	100.0000
216	CR-34	121.5000	121.5000	94.3000	0.0000	0.0000	100.0000
217	CR-32	111.7100	111.7100	96.0400	0.0000	0.0000	100.0000
218	CR-MH32	111.5000	111.5000	94.5000	0.0000	0.0000	100.0000
219	CR-12	102.7600	102.7600	88.3600	0.0000	0.0000	100.0000
220	CR-11	102.7600	102.7600	96.7600	0.0000	0.0000	100.0000
221	CE-8	119.6500	119.6500	93.8800	0.0000	0.0000	100.0000
222	CF-3	115.4200	115.4200	96.0000	0.0000	0.0000	100.0000
223	CJ-35	103.4100	103.4100	91.7300	0.0000	0.0000	100.0000
224	CR-40	124.2000	124.2000	117.0100	0.0000	0.0000	100.0000
225	CR-39	124.2000	124.2000	116.8900	0.0000	0.0000	100.0000
226	CR-28	99.1000	99.1000	94.2900	0.0000	0.0000	100.0000
227	CG-6	103.3200	103.3200	97.3200	0.0000	0.0000	100.0000
228	CJ-54	101.9000	101.9000	89.8700	0.0000	0.0000	100.0000

229	CD-32	101.9000	101.9000	95.9000	0.0000	0.0000	100.0000
230	CJ-55	102.2000	102.2000	89.7400	0.0000	0.0000	100.0000
231	CJ-56	102.2000	102.2000	89.5700	0.0000	0.0000	100.0000
232	CJ-57	102.2000	102.2000	89.4100	0.0000	0.0000	100.0000
233	CJ-58	195.5000	195.5000	87.2400	0.0000	0.0000	100.0000
234	CJ-59	195.5000	195.5000	87.1800	0.0000	0.0000	100.0000
235	CR-3	100.5000	100.5000	89.9600	0.0000	0.0000	100.0000
236	CR-4	195.5000	195.5000	90.0100	0.0000	0.0000	100.0000
237	CR-5	101.1000	101.1000	96.0000	0.0000	0.0000	100.0000
238	CR-MH5	100.5000	100.5000	94.9000	0.0000	0.0000	100.0000
239	CP-2	102.4100	102.4100	96.4100	0.0000	0.0000	100.0000
240	CP-3	102.8900	102.8900	96.8900	0.0000	0.0000	100.0000
241	CJ-19	106.1100	106.1100	92.7000	0.0000	0.0000	100.0000
242	CJ-23	105.1200	105.1200	92.4000	0.0000	0.0000	100.0000
243	CJ-39	102.8100	102.8100	91.1800	0.0000	0.0000	100.0000
244	CG-5	102.9000	102.9000	96.5900	0.0000	0.0000	100.0000
245	CC-54	127.9400	127.9400	98.5000	0.0000	0.0000	100.0000
246	BW8-SW	103.3100	103.3100	97.1100	0.0000	0.0000	100.0000
247	BW8-SE	103.2500	103.2500	92.1000	0.0000	0.0000	100.0000
248	SNT01	105.5000	105.5000	81.4500	0.0000	0.0000	100.0000
249	CK-3H	102.0000	102.0000	95.6650	0.0000	0.0000	100.0000
250	CC-56	121.2700	121.2700	97.7600	0.0000	0.0000	100.0000

Table E3b - Junction Data

Inp Num	Junction Name	X Coord.	Y Coord.	Type of Manhole	Type of Inlet	Maximum Capacity	Pavement Shape	Pavement Slope
1	CJ-10	3.058700E+06	13.88480E+06	F	Normal		0	0.0000
2	CJ-12	3.059300E+06	13.88480E+06	F	Normal		0	0.0000
3	CJ-14	3.060200E+06	13.88480E+06	F	Normal		0	0.0000
4	CC-48	3.061600E+06	13.88430E+06	F	Normal		0	0.0000
5	CC-6	3.054900E+06	13.88470E+06	F	Normal		0	0.0000
6	CC-5	3.054600E+06	13.88470E+06	F	Normal		0	0.0000
7	CC-1	3.054600E+06	13.88410E+06	F	Normal		0	0.0000
8	CC-8	3.054900E+06	13.88450E+06	F	Normal		0	0.0000
9	CJ-1	3.054700E+06	13.88490E+06	F	Normal		0	0.0000
10	CC-9	3.055100E+06	13.88470E+06	F	Normal		0	0.0000
11	CC-2	3.054800E+06	13.88410E+06	F	Normal		0	0.0000
12	CC-3	3.055000E+06	13.88410E+06	F	Normal		0	0.0000
13	CC-7	3.054900E+06	13.88460E+06	F	Normal		0	0.0000
14	CJ-2A	3.055500E+06	13.88490E+06	F	Normal		0	0.0000
15	CJ-2	3.055300E+06	13.88490E+06	F	Normal		0	0.0000
16	CJ-3	3.055700E+06	13.88490E+06	F	Normal		0	0.0000
17	CD-1	3.056300E+06	13.88500E+06	F	Normal		0	0.0000
18	CD-2	3.056600E+06	13.88500E+06	F	Normal		0	0.0000
19	CJ-5	3.056600E+06	13.88480E+06	F	Normal		0	0.0000
20	CJ-4	3.056300E+06	13.88480E+06	F	Normal		0	0.0000
21	CD-3	3.056900E+06	13.88500E+06	F	Normal		0	0.0000
22	CJ-6	3.056900E+06	13.88480E+06	F	Normal		0	0.0000
23	CD-4	3.057500E+06	13.88500E+06	F	Normal		0	0.0000
24	CJ-7	3.057500E+06	13.88480E+06	F	Normal		0	0.0000
25	CD-5	3.057800E+06	13.88500E+06	F	Normal		0	0.0000
26	CJ-8	3.057800E+06	13.88480E+06	F	Normal		0	0.0000
27	CD-6	3.058400E+06	13.88500E+06	F	Normal		0	0.0000
28	CD-7	3.059000E+06	13.88500E+06	F	Normal		0	0.0000
29	CC-32	3.058700E+06	13.88460E+06	F	Normal		0	0.0000
30	CJ-8a	3.058100E+06	13.88480E+06	F	Normal		0	0.0000
31	CC-31	3.058100E+06	13.88460E+06	F	Normal		0	0.0000
32	CJ-6a	3.057200E+06	13.88480E+06	F	Normal		0	0.0000
33	CC-24	3.057200E+06	13.88460E+06	F	Normal		0	0.0000
34	CC-23	3.056600E+06	13.88460E+06	F	Normal		0	0.0000
35	CC-22	3.056300E+06	13.88470E+06	F	Normal		0	0.0000
36	CJ-29	3.056000E+06	13.88490E+06	F	Normal		0	0.0000
37	CC-14	3.056000E+06	13.88470E+06	F	Normal		0	0.0000
38	CC-13	3.055700E+06	13.88470E+06	F	Normal		0	0.0000
39	CC-12	3.055700E+06	13.88460E+06	F	Normal		0	0.0000
40	CC-11	3.055700E+06	13.88450E+06	F	Normal		0	0.0000
41	CC-10	3.055300E+06	13.88470E+06	F	Normal		0	0.0000
42	CJ-28	3.055100E+06	13.88490E+06	F	Normal		0	0.0000
43	CJ-27	3.054900E+06	13.88490E+06	F	Normal		0	0.0000
44	CC-15	3.056100E+06	13.88410E+06	F	Normal		0	0.0000
45	CC-16	3.056300E+06	13.88410E+06	F	Normal		0	0.0000
46	CC-17	3.056500E+06	13.88410E+06	F	Normal		0	0.0000
47	CC-18	3.056700E+06	13.88410E+06	F	Normal		0	0.0000
48	CC-19	3.056300E+06	13.88430E+06	F	Normal		0	0.0000
49	CC-20	3.056500E+06	13.88430E+06	F	Normal		0	0.0000
50	CC-21	3.056800E+06	13.88430E+06	F	Normal		0	0.0000
51	CC-28	3.058100E+06	13.88430E+06	F	Normal		0	0.0000
52	CC-29	3.058400E+06	13.88430E+06	F	Normal		0	0.0000
53	CC-25	3.057900E+06	13.88410E+06	F	Normal		0	0.0000
54	CC-26	3.058100E+06	13.88410E+06	F	Normal		0	0.0000
55	CC-27	3.058300E+06	13.88410E+06	F	Normal		0	0.0000
56	CD-8	3.059300E+06	13.88500E+06	F	Normal		0	0.0000
57	CD-9	3.059900E+06	13.88500E+06	F	Normal		0	0.0000
58	CJ-13	3.059900E+06	13.88480E+06	F	Normal		0	0.0000
59	CC-35	3.059500E+06	13.88410E+06	F	Normal		0	0.0000
60	CC-33	3.059600E+06	13.88430E+06	F	Normal		0	0.0000
61	CC-36	3.059800E+06	13.88410E+06	F	Normal		0	0.0000
62	CC-37	3.060100E+06	13.88410E+06	F	Normal		0	0.0000
63	CC-38	3.059900E+06	13.88430E+06	F	Normal		0	0.0000
64	CC-39	3.060200E+06	13.88460E+06	F	Normal		0	0.0000
65	CD-10	3.060500E+06	13.88500E+06	F	Normal		0	0.0000
66	CJ-15	3.060500E+06	13.88480E+06	F	Normal		0	0.0000
67	CD-11	3.060800E+06	13.88500E+06	F	Normal		0	0.0000
68	CJ-16	3.060800E+06	13.88480E+06	F	Normal		0	0.0000
69	CJ-17	3.061200E+06	13.88480E+06	F	Normal		0	0.0000
70	CC-4	3.054600E+06	13.88440E+06	F	Normal		0	0.0000
71	CJ-11	3.059000E+06	13.88480E+06	F	Normal		0	0.0000
72	CJ-9	3.058400E+06	13.88480E+06	F	Normal		0	0.0000
73	CJ-12a	3.059600E+06	13.88480E+06	F	Normal		0	0.0000
74	CC-44	3.061200E+06	13.88460E+06	F	Normal		0	0.0000
75	CC-34	3.059600E+06	13.88460E+06	F	Normal		0	0.0000
76	CC-40	3.061100E+06	13.88410E+06	F	Normal		0	0.0000
77	CC-43	3.061200E+06	13.88430E+06	F	Normal		0	0.0000
78	CC-46	3.061700E+06	13.88400E+06	F	Normal		0	0.0000
79	CC-45	3.061500E+06	13.88400E+06	F	Normal		0	0.0000
80	CC-57	3.061300E+06	13.88400E+06	F	Normal		0	0.0000
81	CC-42	3.060800E+06	13.88410E+06	F	Normal		0	0.0000
82	CD-12	3.061200E+06	13.88500E+06	F	Normal		0	0.0000
83	CD-13	3.061500E+06	13.88500E+06	F	Normal		0	0.0000
84	CC-30	3.058100E+06	13.88420E+06	F	Normal		0	0.0000
85	CC-49	3.061700E+06	13.88420E+06	F	Normal		0	0.0000
86	CC-47	3.061400E+06	13.88430E+06	F	Normal		0	0.0000
87	CJ-21	3.063553E+06	13.88479E+06	F	Normal		0	0.0000
88	CJ-24	3.064453E+06	13.88479E+06	F	Normal		0	0.0000
89	CJ-33	3.066253E+06	13.88479E+06	F	Normal		0	0.0000
90	CE-10	3.066253E+06	13.88449E+06	F	Normal		0	0.0000
91	CD-23	3.068553E+06	13.88509E+06	F	Normal		0	0.0000
92	CJ-47	3.070353E+06	13.88479E+06	F	Normal		0	0.0000
93	CD-29	3.070953E+06	13.88509E+06	F	Normal		0	0.0000
94	CR-98	3.074353E+06	13.88539E+06	F	Normal		0	0.0000
95	CR-97	3.074453E+06	13.88519E+06	F	Normal		0	0.0000
96	CE-11	3.064853E+06	13.88379E+06	F	Normal		0	0.0000
97	CR-23	3.073553E+06	13.88359E+06	F	Normal		0	0.0000

98	CR-35	3.075853E+06	13.88319E+06	F	Normal	0	0.0000
99	CR-37	3.075453E+06	13.88359E+06	F	Normal	0	0.0000
100	CR-38	3.075253E+06	13.88319E+06	F	Normal	0	0.0000
101	CR-22	3.075153E+06	13.88369E+06	F	Normal	0	0.0000
102	CR-20	3.074953E+06	13.88319E+06	F	Normal	0	0.0000
103	CR-41	3.074653E+06	13.88389E+06	F	Normal	0	0.0000
104	CR-10	3.074653E+06	13.88419E+06	F	Normal	0	0.0000
105	CR-88	3.074253E+06	13.88359E+06	F	Normal	0	0.0000
106	CR-24	3.073253E+06	13.88359E+06	F	Normal	0	0.0000
107	CE-1	3.063653E+06	13.88359E+06	F	Normal	0	0.0000
108	CD-15	3.064153E+06	13.88509E+06	F	Normal	0	0.0000
109	CD-31	3.071953E+06	13.88509E+06	F	Normal	0	0.0000
110	CR-13	3.072153E+06	13.88319E+06	F	Normal	0	0.0000
111	CR-17	3.073553E+06	13.88319E+06	F	Normal	0	0.0000
112	CJ-53a	3.072753E+06	13.88479E+06	F	Normal	0	0.0000
113	CJ-50	3.071253E+06	13.88479E+06	F	Normal	0	0.0000
114	CJ-49	3.070953E+06	13.88479E+06	F	Normal	0	0.0000
115	CR-14	3.072553E+06	13.88319E+06	F	Normal	0	0.0000
116	CG-11	3.068553E+06	13.88389E+06	F	Normal	0	0.0000
117	CJ-40	3.068853E+06	13.88479E+06	F	Normal	0	0.0000
118	CG-1	3.067053E+06	13.88359E+06	F	Normal	0	0.0000
119	CJ-37	3.066953E+06	13.88479E+06	F	Normal	0	0.0000
120	CE-7	3.065653E+06	13.88399E+06	F	Normal	0	0.0000
121	CE-5	3.065353E+06	13.88359E+06	F	Normal	0	0.0000
122	CE-4	3.064953E+06	13.88359E+06	F	Normal	0	0.0000
123	CJ-45	3.069753E+06	13.88479E+06	F	Normal	0	0.0000
124	CD-24	3.069153E+06	13.88509E+06	F	Normal	0	0.0000
125	CC-50	3.062391E+06	13.88448E+06	F	Normal	0	0.0000
126	CJ-18	3.062400E+06	13.88478E+06	F	Normal	0	0.0000
127	CJ-20	3.063253E+06	13.88479E+06	F	Normal	0	0.0000
128	CC-51	3.062953E+06	13.88449E+06	F	Normal	0	0.0000
129	CC-52	3.063153E+06	13.88429E+06	F	Normal	0	0.0000
130	CD-14	3.063553E+06	13.88509E+06	F	Normal	0	0.0000
131	CJ-22	3.063853E+06	13.88479E+06	F	Normal	0	0.0000
132	CC-53	3.063853E+06	13.88389E+06	F	Normal	0	0.0000
133	CC-55	3.064453E+06	13.88449E+06	F	Normal	0	0.0000
134	CJ-25	3.064753E+06	13.88479E+06	F	Normal	0	0.0000
135	CD-16	3.064753E+06	13.88509E+06	F	Normal	0	0.0000
136	CJ-26	3.065053E+06	13.88479E+06	F	Normal	0	0.0000
137	CD-17	3.065353E+06	13.88509E+06	F	Normal	0	0.0000
138	CJ-30	3.065353E+06	13.88479E+06	F	Normal	0	0.0000
139	CD-18	3.065953E+06	13.88509E+06	F	Normal	0	0.0000
140	CJ-32	3.065953E+06	13.88479E+06	F	Normal	0	0.0000
141	CJ-31	3.065653E+06	13.88479E+06	F	Normal	0	0.0000
142	CE-2	3.064153E+06	13.88359E+06	F	Normal	0	0.0000
143	CE-3	3.064553E+06	13.88359E+06	F	Normal	0	0.0000
144	CE-9	3.064453E+06	13.88379E+06	F	Normal	0	0.0000
145	CE-6	3.065653E+06	13.88379E+06	F	Normal	0	0.0000
146	CD-19	3.066553E+06	13.88509E+06	F	Normal	0	0.0000
147	CD-20	3.066953E+06	13.88509E+06	F	Normal	0	0.0000
148	CF-1	3.066553E+06	13.88399E+06	F	Normal	0	0.0000
149	CF-2	3.066953E+06	13.88399E+06	F	Normal	0	0.0000
150	CD-21	3.067353E+06	13.88509E+06	F	Normal	0	0.0000
151	CJ-37a	3.067353E+06	13.88479E+06	F	Normal	0	0.0000
152	CD-22	3.067653E+06	13.88509E+06	F	Normal	0	0.0000
153	CJ-37c	3.067953E+06	13.88479E+06	F	Normal	0	0.0000
154	CJ-37b	3.067653E+06	13.88479E+06	F	Normal	0	0.0000
155	CG-2	3.067353E+06	13.88359E+06	F	Normal	0	0.0000
156	CG-4	3.067953E+06	13.88359E+06	F	Normal	0	0.0000
157	CG-7	3.068053E+06	13.88389E+06	F	Normal	0	0.0000
158	CG-3	3.067653E+06	13.88359E+06	F	Normal	0	0.0000
159	CG-8	3.067653E+06	13.88389E+06	F	Normal	0	0.0000
160	CG-9	3.067653E+06	13.88439E+06	F	Normal	0	0.0000
161	CG-10	3.067653E+06	13.88459E+06	F	Normal	0	0.0000
162	CH-1	3.068251E+06	13.88452E+06	F	Normal	0	0.0000
163	CJ-38	3.068253E+06	13.88479E+06	F	Normal	0	0.0000
164	CH-2	3.068978E+06	13.88448E+06	F	Normal	0	0.0000
165	CH-3	3.068848E+06	13.88460E+06	F	Normal	0	0.0000
166	CJ-41	3.069153E+06	13.88479E+06	F	Normal	0	0.0000
167	CK-1	3.069953E+06	13.88359E+06	F	Normal	0	0.0000
168	CK-2	3.069653E+06	13.88359E+06	F	Normal	0	0.0000
169	CK-3	3.069453E+06	13.88369E+06	F	Normal	0	0.0000
170	CK-4	3.069453E+06	13.88389E+06	F	Normal	0	0.0000
171	CJ-43	3.069453E+06	13.88479E+06	F	Normal	0	0.0000
172	CK-5	3.069453E+06	13.88459E+06	F	Normal	0	0.0000
173	CK-6	3.070053E+06	13.88389E+06	F	Normal	0	0.0000
174	CK-7	3.069753E+06	13.88389E+06	F	Normal	0	0.0000
175	CD-27	3.069753E+06	13.88509E+06	F	Normal	0	0.0000
176	CK-8	3.069753E+06	13.88459E+06	F	Normal	0	0.0000
177	CD-28	3.070053E+06	13.88509E+06	F	Normal	0	0.0000
178	CJ-46	3.070053E+06	13.88479E+06	F	Normal	0	0.0000
179	CK-9	3.070353E+06	13.88459E+06	F	Normal	0	0.0000
180	CJ-48	3.070653E+06	13.88479E+06	F	Normal	0	0.0000
181	CL-6	3.070653E+06	13.88459E+06	F	Normal	0	0.0000
182	CL-5	3.070653E+06	13.88439E+06	F	Normal	0	0.0000
183	CL-4a	3.070653E+06	13.88419E+06	F	Normal	0	0.0000
184	CL-4	3.070653E+06	13.88399E+06	F	Normal	0	0.0000
185	CL-8	3.070653E+06	13.88359E+06	F	Normal	0	0.0000
186	CL-3	3.070953E+06	13.88359E+06	F	Normal	0	0.0000
187	CL-2	3.071253E+06	13.88359E+06	F	Normal	0	0.0000
188	CL-1	3.071353E+06	13.88379E+06	F	Normal	0	0.0000
189	CL-9	3.071153E+06	13.88389E+06	F	Normal	0	0.0000
190	CL-7	3.071253E+06	13.88449E+06	F	Normal	0	0.0000
191	CD-30	3.071653E+06	13.88509E+06	F	Normal	0	0.0000
192	CJ-51	3.071653E+06	13.88479E+06	F	Normal	0	0.0000
193	CJ-52	3.071953E+06	13.88479E+06	F	Normal	0	0.0000
194	CP-1	3.072253E+06	13.88449E+06	F	Normal	0	0.0000
195	CJ-53	3.072253E+06	13.88479E+06	F	Normal	0	0.0000
196	CR-25	3.073753E+06	13.88369E+06	F	Normal	0	0.0000
197	CR-15	3.072553E+06	13.88339E+06	F	Normal	0	0.0000
198	CR-16	3.073153E+06	13.88319E+06	F	Normal	0	0.0000
199	CR-18	3.074153E+06	13.88319E+06	F	Normal	0	0.0000
200	CR-19	3.074653E+06	13.88319E+06	F	Normal	0	0.0000
201	CR-21	3.075153E+06	13.88349E+06	F	Normal	0	0.0000
202	CR-36	3.075553E+06	13.88319E+06	F	Normal	0	0.0000
203	CR-6	3.073553E+06	13.88389E+06	F	Normal	0	0.0000
204	CR-8	3.073753E+06	13.88419E+06	F	Normal	0	0.0000
205	CR-8a	3.074253E+06	13.88439E+06	F	Normal	0	0.0000
206	CR-9	3.074253E+06	13.88419E+06	F	Normal	0	0.0000
207	CR-10a	3.074653E+06	13.88439E+06	F	Normal	0	0.0000
208	CR-45	3.074849E+06	13.88458E+06	F	Normal	0	0.0000
209	CR-31	3.075153E+06	13.88459E+06	F	Normal	0	0.0000
210	CR-30	3.075453E+06	13.88459E+06	F	Normal	0	0.0000
211	CR-29	3.075753E+06	13.88459E+06	F	Normal	0	0.0000
212	CR-33	3.075253E+06	13.88439E+06	F	Normal	0	0.0000
213	CR-27	3.076053E+06	13.88459E+06	F	Normal	0	0.0000
214	CR-33a	3.075253E+06	13.88419E+06	F	Normal	0	0.0000
215	CR-34a	3.074953E+06	13.88439E+06	F	Normal	0	0.0000
216	CR-34	3.074953E+06	13.88419E+06	F	Normal	0	0.0000
217	CR-32	3.075853E+06	13.88419E+06	F	Normal	0	0.0000
218	CR-MH32	3.075453E+06	13.88419E+06	F	Normal	0	0.0000
219	CR-12	3.074653E+06	13.88479E+06	F	Normal	0	0.0000
220	CR-11	3.074253E+06	13.88459E+06	F	Normal	0	0.0000
221	CE-8	3.065653E+06	13.88449E+06	F	Normal	0	0.0000
222	CF-3	3.066953E+06	13.88439E+06	F	Normal	0	0.0000
223	CJ-35	3.066553E+06	13.88479E+06	F	Normal	0	0.0000
224	CR-40	3.074253E+06	13.88379E+06	F	Normal	0	0.0000
225	CR-39	3.074253E+06	13.88399E+06	F	Normal	0	0.0000

226	CR-28	3.075853E+06	13.88439E+06	F	Normal	0	0.0000	
227	CG-6	3.068553E+06	13.88359E+06	F	Normal	0	0.0000	
228	CJ-54	3.073053E+06	13.88479E+06	F	Normal	0	0.0000	
229	CD-32	3.072953E+06	13.88498E+06	F	Normal	0	0.0000	
230	CJ-55	3.073353E+06	13.88499E+06	F	Normal	0	0.0000	
231	CJ-56	3.073653E+06	13.88519E+06	F	Normal	0	0.0000	
232	CJ-57	3.073953E+06	13.88539E+06	F	Normal	0	0.0000	
233	CJ-58	3.074253E+06	13.88559E+06	F	Normal	0	0.0000	
234	CJ-59	3.074053E+06	13.88589E+06	F	Normal	0	0.0000	
235	CR-3	3.072853E+06	13.88419E+06	F	Normal	0	0.0000	
236	CR-4	3.072453E+06	13.88419E+06	F	Normal	0	0.0000	
237	CR-5	3.072853E+06	13.88359E+06	F	Normal	0	0.0000	
238	CR-MH5	3.072853E+06	13.88379E+06	F	Normal	0	0.0000	
239	CP-2	3.073153E+06	13.88449E+06	F	Normal	0	0.0000	
240	CP-3	3.073453E+06	13.88449E+06	F	Normal	0	0.0000	
241	CJ-19	3.062953E+06	13.88479E+06	F	Normal	0	0.0000	
242	CJ-23	3.064153E+06	13.88479E+06	F	Normal	0	0.0000	
243	CJ-39	3.068553E+06	13.88479E+06	F	Normal	0	0.0000	
244	CG-5	3.068253E+06	13.88359E+06	F	Normal	0	0.0000	
245	CC-54	3.063853E+06	13.88449E+06	F	Normal	0	0.0000	
246	BW8-SW	3.069653E+06	13.88329E+06	F	Normal	0	0.0000	
247	BW8-SE	3.074153E+06	13.88289E+06	F	Normal	0	0.0000	
248	SNT01	3.061499E+06	13.88317E+06	F	Normal	0	0.0000	
249	CK-3H	3.060941E+06	13.88316E+06	F	Normal	0	0.0000	
250	CC-56	3.065056E+06	13.88465E+06	F	Normal	0	0.0000	

Table E4 - Conduit Connectivity

Input Number	Conduit Name	Upstream Node	Downstream Node	Upstream Elevation	Downstream Elevation	
1	L-CC-3	CC-3	CC-2	103.9400	102.3100	No Design
2	L-CC-2	CC-2	CC-1	102.3100	99.5300	No Design
3	L-CC-1	CC-1	CC-4	98.0300	97.8400	No Design
4	L-CC-4	CC-4	CC-5	97.8400	97.3000	No Design
5	L-CC-5	CC-5	CJ-1	97.3000	96.6000	No Design
6	L-CC-8	CC-8	CC-7	118.6000	118.0300	No Design
7	L-CC-7	CC-7	CC-6	118.0300	116.4500	No Design
8	L-CC-6	CC-6	CJ-27	99.5000	98.5100	No Design
9	L-CC-9	CC-9	CJ-28	98.7300	96.4000	No Design
10	L-CC-11	CC-11	CC-12	112.6900	112.1400	No Design
11	L-CC-12	CC-12	CC-13	112.1400	110.5000	No Design
12	L-CC-13	CC-13	CJ-3	100.5000	98.6800	No Design
13	L-CC-14	CC-14	CJ-29	100.5000	97.7500	No Design
14	L-CC-21	CC-21	CC-20	110.5200	110.2400	No Design
15	L-CC-20	CC-20	CC-19	110.2400	110.0200	No Design
16	L-CC-19	CC-19	CC-22	101.7700	97.9400	No Design
17	L-CC-22	CC-22	CJ-4	97.9400	97.1600	No Design
18	L-CC-18	CC-18	CC-17	103.4300	102.8500	No Design
19	L-CC-17	CC-17	CC-16	102.8500	102.4800	No Design
20	L-CC-16	CC-16	CC-19	102.0000	101.7700	No Design
21	L-CC-15	CC-15	CC-16	102.7800	102.4800	No Design
22	L-CC-23	CC-23	CJ-5	98.0000	97.6000	No Design
23	L-CC-24	CC-24	CJ-6a	98.0000	98.0000	No Design
24	L-CC-29	CC-29	CC-28	115.6000	100.2900	No Design
25	L-CC-28	CC-28	CC-31	100.2900	97.3400	No Design
26	L-CC-31	CC-31	CJ-8a	97.3400	96.8300	No Design
27	L-CC-27	CC-27	CC-26	102.5900	102.4100	No Design
28	L-CC-26	CC-26	CC-30	100.4900	100.3300	No Design
29	L-CC-30	CC-30	CC-28	100.3300	100.2900	No Design
30	L-CC-25	CC-25	CC-26	102.6000	102.4100	No Design
31	L-CC-32	CC-32	CJ-10	97.7100	97.1700	No Design
32	L-CC-38	CC-38	CC-33	121.6400	120.3600	No Design
33	L-CC-33	CC-33	CC-34	99.8600	97.4200	No Design
34	L-CC-34	CC-34	CJ-12a	97.4200	96.5000	No Design
35	L-CC-37	CC-37	CC-36	102.4200	102.2600	No Design
36	L-CC-36	CC-36	CC-33	100.8200	100.3200	No Design
37	L-CC-35	CC-35	CC-36	102.5300	102.2600	No Design
38	L-CC-39	CC-39	CJ-14	97.8900	96.8200	No Design
39	L-CC-46	CC-46	CC-45	101.1500	101.0400	No Design
40	L-CC-45	CC-45	CC-57	101.0400	100.8000	No Design
41	L-CC-57	CC-40	CC-57	101.2700	100.8000	No Design
42	L-CC-40	CC-40	CC-43	95.4000	95.2500	No Design
43	L-CC-43	CC-43	CC-44	95.2500	94.9800	No Design
44	L-CC-44	CC-44	CJ-17	94.9800	94.8800	No Design
45	L-CC-42	CC-42	CC-40	101.8700	100.9100	No Design
46	L-CC-49	CC-48	CC-49	100.5400	100.5200	No Design
47	L-CC-48	CC-48	CC-47	100.5400	100.2500	No Design
48	L-CC-47	CC-47	CC-43	100.2500	100.0800	No Design
49	L-CC-56	CC-10	CJ-2	100.0000	99.6500	No Design
50	L-CD-1	CD-1	CJ-4	101.0300	97.6700	No Design
51	L-CD-2	CD-2	CJ-5	100.8200	97.6000	No Design
52	L-CD-3	CD-3	CJ-6	100.7100	97.5300	No Design
53	L-CD-4	CD-4	CJ-7	100.8300	97.4500	No Design
54	L-CD-5	CD-5	CJ-8	101.0600	97.3700	No Design
55	L-CD-6	CD-6	CJ-9	101.0700	97.2000	No Design
56	L-CD-7	CD-7	CJ-11	100.8600	97.1300	No Design
57	L-CD-8	CD-8	CJ-12	100.7600	97.0000	No Design
58	L-CD-9	CD-9	CJ-13	100.8500	96.9800	No Design
59	L-CD-10	CD-10	CJ-15	100.7000	96.7600	No Design
60	L-CD-11	CD-11	CJ-16	100.3700	96.6600	No Design
61	L-CD-13	CD-13	CD-12	100.4000	100.2600	No Design
62	L-CD-12	CD-12	CJ-17	99.2600	93.9600	No Design
63	L-CJ-1	CJ-1	CJ-27	96.6000	96.5100	No Design
64	L-CJ-27	CJ-27	CJ-28	96.5100	96.4000	No Design
65	L-CJ-28	CJ-28	CJ-2	96.4000	96.3200	No Design
66	L-CJ-2	CJ-2	CJ-2A	96.3200	96.3000	No Design
67	L-CJ-2a	CJ-2A	CJ-3	96.3000	96.1800	No Design
68	L-CJ-3	CJ-3	CJ-29	96.1800	96.0900	No Design
69	L-CJ-29	CJ-29	CJ-4	95.0900	95.0000	No Design
70	L-CJ-4	CJ-4	CJ-5	95.0000	94.9300	No Design
71	L-CJ-5	CJ-5	CJ-6	94.9300	94.8600	No Design
72	L-CJ-6	CJ-6	CJ-6a	94.8600	94.8300	No Design
73	L-CJ-6a	CJ-6a	CJ-7	94.8300	94.7800	No Design
74	L-CJ-7	CJ-7	CJ-8	94.7800	94.7000	No Design
75	L-CJ-8	CJ-8	CJ-8a	94.7000	94.6600	No Design
76	L-CJ-8a	CJ-8a	CJ-9	94.6600	94.5400	No Design
77	L-CJ-9	CJ-9	CJ-10	94.5400	94.5000	No Design
78	L-CJ-10	CJ-10	CJ-11	94.5000	94.4600	No Design
79	L-CJ-11	CJ-11	CJ-12	94.4600	94.3900	No Design
80	L-CJ-12	CJ-12	CJ-12a	94.3900	94.3200	No Design
81	L-CJ-12a	CJ-12a	CJ-13	94.3200	94.3100	No Design
82	L-CJ-13	CJ-13	CJ-14	94.3100	94.1500	No Design
83	L-CJ-14	CJ-14	CJ-15	94.1500	94.0900	No Design
84	L-CJ-15	CJ-15	CJ-16	94.0900	93.9900	No Design
85	L-CJ-16	CJ-16	CJ-17	93.9900	93.8800	No Design
86	L-CJ-17	CJ-17	CJ-18	92.8800	92.8200	No Design
87	L-CC-50	CC-50	CJ-18	100.9600	96.4800	No Design
88	L-CC-52	CC-52	CC-51	100.6900	100.5500	No Design
89	L-CC-51	CC-51	CJ-19	100.5500	96.3100	No Design
90	L-CC-53	CC-53	CC-54	122.2000	121.6500	No Design
91	L-CC-54	CC-54	CJ-22	98.5000	96.1700	No Design
92	L-CC-55	CC-55	CJ-24	98.5000	95.9600	No Design
93	L-CD-14	CD-14	CJ-21	99.3000	96.2000	No Design
94	L-CD-15	CD-15	CJ-23	97.5000	96.0700	No Design

95	L-CD-16	CD-16	CJ-25	97.5000	95.9000	No Design
96	L-CD-17	CD-17	CJ-30	97.3200	95.6500	No Design
97	L-CD-18	CD-18	CJ-32	97.5400	95.5500	No Design
98	L-CD-19	CD-19	CJ-35	97.4100	95.3400	No Design
99	L-CD-20	CD-20	CJ-37	97.0100	95.2200	No Design
100	L-CD-21	CD-21	CJ-37a	96.6100	95.1200	No Design
101	L-CD-22	CD-22	CJ-37b	96.9100	95.0000	No Design
102	L-CD-23	CD-23	CJ-39	96.8100	94.7900	No Design
103	L-CD-24	CD-24	CJ-41	96.4100	94.7300	No Design
104	L-CD-27	CD-27	CJ-45	96.4100	94.4000	No Design
105	L-CD-28	CD-28	CJ-46	96.7100	94.2900	No Design
106	L-CD-29	CD-29	CJ-49	96.2400	93.4300	No Design
107	L-CD-30	CD-30	CJ-51	95.6000	93.8400	No Design
108	L-CD-31	CD-31	CJ-52	95.6000	93.7400	No Design
109	L-CD-32	CD-32	CJ-54	95.9000	93.5400	No Design
110	L-CE-1	CE-1	CE-2	99.9000	99.5700	No Design
111	L-CE-2	CE-2	CE-3	99.5700	97.7700	No Design
112	L-CE-3	CE-3	CE-4	97.7700	96.9500	No Design
113	L-CE-4	CE-4	CE-5	96.4500	96.2300	No Design
114	L-CE-5	CE-5	CE-6	95.7300	95.5800	No Design
115	L-CE-6	CE-6	CE-7	95.0800	95.0100	No Design
116	L-CE-7	CE-7	CE-8	95.0100	94.8800	No Design
117	L-CE-8	CE-8	CJ-31	93.8800	93.5600	No Design
118	L-CE-9	CE-9	CE-3	98.6500	98.2700	No Design
119	L-CE-11	CE-11	CE-4	97.3100	96.9500	No Design
120	L-CE-10	CE-10	CJ-33	97.7700	95.3900	No Design
121	L-CF-1	CF-1	CF-2	109.5100	109.0600	No Design
122	L-CF-2	CF-2	CF-3	109.0600	108.6300	No Design
123	L-CF-3	CF-3	CJ-37	96.0000	95.2900	No Design
124	L-CG-1	CG-1	CG-2	99.2400	98.1200	No Design
125	L-CG-2	CG-2	CG-3	97.6200	97.3900	No Design
126	L-CG-3	CG-3	CG-8	95.5900	95.1300	No Design
127	L-CG-8	CG-8	CG-9	95.1300	94.5300	No Design
128	L-CG-9	CG-9	CG-10	94.0000	93.9100	No Design
129	L-CG-10	CG-10	CJ-37b	93.9100	93.5700	No Design
130	L-CG-11	CG-11	CG-6	97.7000	97.3200	No Design
131	L-CG-6	CG-6	CG-5	97.3200	97.0900	No Design
132	L-CG-5	CG-5	CG-4	96.5900	96.4100	No Design
133	L-CG-4	CG-4	CG-3	95.9100	95.5900	No Design
134	L-CG-7	CG-7	CG-4	97.2800	95.9100	No Design
135	L-CH-1	CH-1	CJ-38	96.5000	94.9000	No Design
136	L-CH-2	CH-2	CH-3	96.5000	95.4600	No Design
137	L-CH-3	CH-3	CJ-40	95.4600	94.7300	No Design
138	L-CK-1	CK-1	CK-2	97.9100	97.7000	No Design
139	L-CK-2	CK-2	CK-3	96.8100	96.6500	No Design
140	L-CK-3	CK-3	CK-4	96.1500	96.1000	No Design
141	L-CK-4	CK-4	CK-5	96.1000	94.0600	No Design
142	L-CK-5	CK-5	CJ-43	94.0600	93.5700	No Design
143	L-CK-6	CK-6	CK-7	115.6700	114.1100	No Design
144	L-CK-7	CK-7	CK-4	114.1100	112.5000	No Design
145	L-CK-8	CK-8	CJ-45	96.7500	94.4400	No Design
146	L-CK-9	CK-9	CJ-47	96.7500	94.3400	No Design
147	L-CL-9	CL-9	CL-1	97.2400	97.0200	No Design
148	L-CL-1	CL-1	CL-2	97.0200	96.7600	No Design
149	L-CL-2	CL-2	CL-3	96.2600	96.1900	No Design
150	L-CL-3	CL-3	CL-8	96.1900	95.9500	No Design
151	L-CL-8	CL-8	CL-4	95.9500	95.2300	No Design
152	L-CL-4	CL-4	CL-4a	95.2300	94.6700	No Design
153	L-CL-4a	CL-4a	CL-5	94.6700	94.1100	No Design
154	L-CL-5	CL-5	CL-6	94.1100	93.9300	No Design
155	L-CL-6	CL-6	CJ-48	93.4300	90.4000	No Design
156	L-CL-7	CL-7	CJ-50	94.4300	93.9100	No Design
157	L-CP-1	CP-1	CJ-53	97.2300	93.6700	No Design
158	L-CP-3	CP-3	CP-2	96.8900	96.4100	No Design
159	L-CP-2	CP-2	CJ-54	96.4100	93.5400	No Design
160	L-CR-5	CR-5	CR-MH5	96.0000	95.9000	No Design
161	L-CR-MH5	CR-MH5	CR-3	94.9000	89.9600	No Design
162	L-CR-4	CR-4	CR-3	90.0100	89.9600	No Design
163	L-CR-3	CR-3	CR-8	89.9600	89.7000	No Design
164	L-CR-8	CR-8	CR-9	89.7000	89.6000	No Design
165	L-CR-9	CR-9	CR-10	89.6000	89.5000	No Design
166	L-CR-10	CR-10	CR-10a	89.5000	89.1500	No Design
167	L-CR-8a	CR-8a	CR-9	90.3500	90.2900	No Design
168	L-CR-41	CR-41	CR-10	114.8300	114.2900	No Design
169	L-CR-34	CR-34	CR-34a	94.3000	94.2000	No Design
170	L-CR-32	CR-32	CR-28	96.0400	95.8300	No Design
171	L-CR-MH32	CR-MH32	CR-33a	94.5000	94.3000	No Design
172	L-CR-33a	CR-33a	CR-33	94.3000	94.2000	No Design
173	L-CR-33	CR-33	CR-34a	94.2000	93.7500	No Design
174	L-CR-34a	CR-34a	CR-10a	93.7500	93.2200	No Design
175	L-CR-11	CR-11	CR-12	96.7600	94.8600	No Design
176	L-CR-28	CR-28	CR-29	94.2900	94.0200	No Design
177	L-CR-27	CR-27	CR-29	96.0600	95.7900	No Design
178	L-CR-29	CR-29	CR-30	94.0200	93.5100	No Design
179	L-CR-30	CR-30	CR-31	93.0100	92.5000	No Design
180	L-CR-31	CR-31	CR-45	92.5000	92.3900	No Design
181	L-CR-45	CR-45	CR-12	88.5400	88.3600	No Design
182	L-CR-88	CR-88	CR-40	117.2000	117.0100	No Design
183	L-CR-40	CR-40	CR-39	117.0100	116.8900	No Design
184	L-CR-39	CR-39	CR-9	116.8900	116.6800	No Design
185	L-CR-37	CR-37	CR-38	93.9700	93.8100	No Design
186	L-CR-22	CR-22	CR-21	94.5500	93.5600	No Design
187	L-CR-21	CR-21	CR-20	93.5600	92.5600	No Design
188	L-CR-25	CR-25	CR-23	94.6800	94.6000	No Design
189	L-CR-24	CR-24	CR-23	96.4800	95.0000	No Design
190	L-CR-15	CR-15	CR-14	96.5700	96.4100	No Design
191	L-CR-13	CR-13	CR-14	96.7600	96.6500	No Design
192	L-CR-14	CR-14	CR-16	94.6500	94.3200	No Design
193	L-CR-16	CR-16	CR-17	94.3200	94.0900	No Design
194	L-CR-35	CR-35	CR-36	95.9500	95.6500	No Design
195	L-CR-36	CR-36	CR-38	95.1500	94.9000	No Design
196	L-CR-38	CR-38	CR-20	93.3100	93.0600	No Design
197	L-CR-20	CR-20	CR-19	92.5600	92.3200	No Design
198	L-CR-19	CR-19	CR-18	92.3200	91.8600	No Design
199	L-CR-18	CR-18	CR-17	91.8000	91.6600	No Design
200	L-CR-17	CR-17	CR-23	91.1600	90.9900	No Design
201	L-CR-23	CR-23	CR-6	90.9900	90.7500	No Design
202	L-CR-6	CR-6	CR-8	90.7500	90.5600	No Design
203	L-CR-10a	CR-10a	CR-12	89.1500	88.3600	No Design
204	L-CR-12	CR-12	CR-97	88.3600	87.7600	No Design
205	L-CR-97	CR-97	CR-98	87.7600	87.2800	No Design
206	L-CR-98	CR-98	CJ-58	87.2800	87.2400	No Design
207	L-CJ-18	CJ-18	CJ-19	92.8200	92.7000	No Design
208	L-CJ-19	CJ-19	CJ-20	92.7000	92.6500	No Design
209	L-CJ-20	CJ-20	CJ-21	92.6500	92.5900	No Design
210	L-CJ-21	CJ-21	CJ-22	92.5900	92.5100	No Design
211	L-CJ-22	CJ-22	CJ-23	92.5100	92.4000	No Design
212	L-CJ-23	CJ-23	CJ-24	92.4000	92.2900	No Design
213	L-CJ-24	CJ-24	CJ-25	92.2900	92.2300	No Design
214	L-CJ-25	CJ-25	CJ-26	92.2300	92.1200	No Design
215	L-CJ-26	CJ-26	CJ-30	92.3200	92.0400	No Design
216	L-CJ-30	CJ-30	CJ-31	92.0400	91.9500	No Design
217	L-CJ-31	CJ-31	CJ-32	91.9500	91.9400	No Design
218	L-CJ-32	CJ-32	CJ-33	91.9400	91.7800	No Design
219	L-CJ-33	CJ-33	CJ-35	91.7800	91.7300	No Design
220	L-CJ-35	CJ-35	CJ-37	91.7300	91.6200	No Design
221	L-CJ-37	CJ-37	CJ-37a	91.6200	91.5100	No Design
222	L-CJ-37a	CJ-37a	CJ-37b	91.5100	91.4600	No Design

223	L-CJ-37b	CJ-37b	CJ-37c	91.4600	91.4000	No Design
224	L-CJ-37c	CJ-37c	CJ-38	91.4000	91.2900	No Design
225	L-CJ-38	CJ-38	CJ-39	91.2900	91.1800	No Design
226	L-CJ-39	CJ-39	CJ-40	91.1800	91.1200	No Design
227	L-CJ-40	CJ-40	CJ-41	91.1200	91.0600	No Design
228	L-CJ-41	CJ-41	CJ-43	91.0600	90.9000	No Design
229	L-CJ-43	CJ-43	CJ-45	90.9000	90.7300	No Design
230	L-CJ-45	CJ-45	CJ-46	90.7300	90.6200	No Design
231	L-CJ-46	CJ-46	CJ-47	90.6200	90.5700	No Design
232	L-CJ-47	CJ-47	CJ-48	90.5700	90.4000	No Design
233	L-CJ-48	CJ-48	CJ-49	90.4000	90.3600	No Design
234	L-CJ-49	CJ-49	CJ-50	90.3600	90.2400	No Design
235	L-CJ-50	CJ-50	CJ-51	90.2400	90.1700	No Design
236	L-CJ-51	CJ-51	CJ-52	90.1700	90.0700	No Design
237	L-CJ-52	CJ-52	CJ-53	90.0700	90.0000	No Design
238	L-CJ-53	CJ-53	CJ-53a	90.0000	89.9500	No Design
239	L-CJ-53a	CJ-53a	CJ-54	89.9500	89.8700	No Design
240	L-CJ-54	CJ-54	CJ-55	89.8700	89.7400	No Design
241	L-CJ-55	CJ-55	CJ-56	89.7400	89.5700	No Design
242	L-CJ-56	CJ-56	CJ-57	89.5700	89.4100	No Design
243	L-CJ-57	CJ-57	CJ-58	89.4100	89.2200	No Design
244	L-CJ-58	CJ-58	CJ-59	87.2400	87.1800	No Design
245	L-CK-2a	BW8-SW	CK-2	97.1100	96.8100	No Design
246	L-CR-18.1	BW8-SE	CR-18	92.1000	91.8000	No Design
247	Link552	CK-3H	CC-40	95.6650	95.4000	No Design
248	Link553	CC-56	CJ-26	97.7600	95.7900	No Design

Storage Junction Data

STORAGE JUNCTION NUMBER OR NAME	JUNCTION TYPE	MAXIMUM OR CONSTANT SURFACE AREA (FT2)	PEAK OR CONSTANT VOLUME (CUBIC FEET)	CROWN ELEVATION (FT)	DEPTH STARTS FROM
CC-1	Stage/Area	20081.1600	15808.2218	104.0300	Node Invert
CJ-1	Stage/Area	20081.1600	15825.6894	106.6100	Node Invert
CC-2	Stage/Area	20081.1600	15801.6878	106.8100	Node Invert
CC-3	Stage/Area	20081.1600	15801.6878	108.4400	Node Invert
CJ-2A	Stage/Area	20081.1600	16214.2010	195.5000	Node Invert
CJ-2	Stage/Area	20081.1600	15827.0833	106.6500	Node Invert
CJ-3	Stage/Area	20081.1600	15831.5264	107.5300	Node Invert
CD-1	Stage/Area	20081.1600	15808.2218	107.0300	Node Invert
CD-2	Stage/Area	20081.1600	15808.1347	106.8000	Node Invert
CD-3	Stage/Area	20081.1600	15808.2218	106.7100	Node Invert
CD-4	Stage/Area	20081.1600	15808.2218	106.8300	Node Invert
CD-5	Stage/Area	20081.1600	15808.2218	107.0600	Node Invert
CD-6	Stage/Area	20081.1600	15808.2218	107.0700	Node Invert
CD-7	Stage/Area	20081.1600	15808.2218	106.8600	Node Invert
CJ-29	Stage/Area	20081.1600	15832.3541	106.6300	Node Invert
CJ-28	Stage/Area	20081.1600	15827.3882	106.8000	Node Invert
CJ-27	Stage/Area	20081.1600	15827.9981	107.0500	Node Invert
CC-15	Stage/Area	20081.1600	15808.2218	108.7800	Node Invert
CC-16	Stage/Area	20081.1600	15810.3127	108.4800	Node Invert
CC-17	Stage/Area	20081.1600	15805.8260	108.3000	Node Invert
CC-18	Stage/Area	20081.1600	15801.6878	107.9300	Node Invert
CC-25	Stage/Area	20081.1600	15801.6878	107.1000	Node Invert
CC-26	Stage/Area	20081.1600	15810.3998	106.9900	Node Invert
CC-27	Stage/Area	20081.1600	15801.6878	107.0900	Node Invert
CD-8	Stage/Area	20081.1600	15808.2218	106.7600	Node Invert
CD-9	Stage/Area	20081.1600	15808.2218	106.8500	Node Invert
CC-35	Stage/Area	20081.1600	15801.6878	107.0300	Node Invert
CC-36	Stage/Area	20081.1600	15808.2218	106.8200	Node Invert
CC-37	Stage/Area	20081.1600	15801.6878	106.9200	Node Invert
CD-10	Stage/Area	20081.1600	15808.2218	106.7000	Node Invert
CD-11	Stage/Area	20081.1600	15808.2218	106.3700	Node Invert
CC-46	Stage/Area	20081.1600	15806.0438	106.6500	Node Invert
CC-45	Stage/Area	20081.1600	15805.4340	106.4000	Node Invert
CC-57	Stage/Area	20081.1600	15804.3014	105.9000	Node Invert
CC-42	Stage/Area	20081.1600	15799.9454	105.9700	Node Invert
CD-12	Stage/Area	20081.1600	15810.7483	105.8400	Node Invert
CD-13	Stage/Area	20081.1600	15805.7825	105.8400	Node Invert
CD-23	Stage/Area	20081.1600	15808.2218	102.8100	Node Invert
CD-29	Stage/Area	20081.1600	15808.2218	102.2400	Node Invert
CR-35	Stage/Area	20081.1600	15801.8185	100.4800	Node Invert
CR-38	Stage/Area	20081.1600	15811.6631	100.1000	Node Invert
CR-20	Stage/Area	20081.1600	15817.6743	100.7300	Node Invert
CE-1	Stage/Area	20081.1600	15806.7843	105.5700	Node Invert
CD-15	Stage/Area	20081.1600	15815.2785	105.1200	Node Invert
CD-31	Stage/Area	20081.1600	15809.1366	101.8100	Node Invert
CR-13	Stage/Area	20081.1600	15806.0438	102.2600	Node Invert
CR-17	Stage/Area	20081.1600	15834.9677	103.3000	Node Invert
CR-14	Stage/Area	20081.1600	15816.9338	102.6500	Node Invert
CG-1	Stage/Area	20081.1600	15802.5155	103.9300	Node Invert
CE-5	Stage/Area	20081.1600	15817.8050	103.9300	Node Invert
CE-4	Stage/Area	20081.1600	15812.5778	103.4500	Node Invert
CD-24	Stage/Area	20081.1600	15808.2218	102.4100	Node Invert
CD-14	Stage/Area	20081.1600	15811.7502	106.1100	Node Invert
CD-16	Stage/Area	20081.1600	15811.3146	104.2100	Node Invert
CD-17	Stage/Area	20081.1600	15808.2218	103.3200	Node Invert
CD-18	Stage/Area	20081.1600	15808.2218	103.5400	Node Invert
CE-2	Stage/Area	20081.1600	15806.0438	105.0700	Node Invert
CE-3	Stage/Area	20081.1600	15810.3998	104.2700	Node Invert
CD-19	Stage/Area	20081.1600	15808.2218	103.4100	Node Invert
CD-20	Stage/Area	20081.1600	15808.2218	103.0100	Node Invert
CD-21	Stage/Area	20081.1600	15808.2218	102.6100	Node Invert
CD-22	Stage/Area	20081.1600	15808.2218	102.9100	Node Invert
CG-2	Stage/Area	20081.1600	15803.8658	102.6200	Node Invert
CG-4	Stage/Area	20081.1600	15813.4490	103.1100	Node Invert
CG-3	Stage/Area	20081.1600	15815.3657	103.2300	Node Invert
CH-1	Stage/Area	20081.1600	15864.5885	102.9100	Node Invert
CK-1	Stage/Area	20081.1600	15803.8658	102.9100	Node Invert
CK-2	Stage/Area	20081.1600	15810.3998	103.3100	Node Invert
CD-27	Stage/Area	20081.1600	15808.2218	102.4100	Node Invert
CD-28	Stage/Area	20081.1600	15808.2218	102.7100	Node Invert
CL-8	Stage/Area	20081.1600	15810.9225	102.5700	Node Invert
CL-3	Stage/Area	20081.1600	15808.2218	102.1900	Node Invert
CL-2	Stage/Area	20081.1600	15808.2218	102.2600	Node Invert
CL-9	Stage/Area	20081.1600	15805.3033	102.5700	Node Invert
CD-30	Stage/Area	20081.1600	15808.2218	101.6000	Node Invert
CR-16	Stage/Area	20081.1600	15819.8088	102.9800	Node Invert
CR-18	Stage/Area	20081.1600	15831.9620	103.2500	Node Invert
CR-19	Stage/Area	20081.1600	15824.8182	102.1300	Node Invert
CR-36	Stage/Area	20081.1600	15803.8658	100.1500	Node Invert
CR-45	Stage/Area	20081.1600	15840.7176	102.0000	Node Invert
CR-31	Stage/Area	20081.1600	15823.0758	101.9100	Node Invert
CR-30	Stage/Area	20081.1600	15817.1516	101.0600	Node Invert
CR-29	Stage/Area	20081.1600	15809.3979	100.2900	Node Invert
CR-27	Stage/Area	20081.1600	15801.6878	100.5600	Node Invert
CG-6	Stage/Area	20081.1600	15808.2218	103.3200	Node Invert
CD-32	Stage/Area	20081.1600	15808.2218	101.9000	Node Invert
CG-5	Stage/Area	20081.1600	15809.5722	102.9000	Node Invert
SNT01	Constant	15000.0000	360750.0000	105.5000	Node Invert

Variable storage data for node | CC-1

Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	98.0300	0.0000	4.3560	0.0000	0.0001	0.0000
2	98.5925	0.5625	4.3560	2.4502	0.0001	0.0001
3	99.1550	1.1250	4.3560	4.9005	0.0001	0.0001
4	99.7175	1.6875	4.3560	7.3507	0.0001	0.0002
5	100.2800	2.2500	4.3560	9.8010	0.0001	0.0002
6	100.8425	2.8125	4.3560	12.2512	0.0001	0.0003
7	101.4050	3.3750	4.3560	14.7015	0.0001	0.0003
8	101.9675	3.9375	4.3560	17.1517	0.0001	0.0004
9	102.5300	4.5000	4.3560	19.6020	0.0001	0.0004
10	102.5925	4.5625	450.3015	29.9967	0.0103	0.0007
11	102.6550	4.6250	896.2470	71.2848	0.0206	0.0016
12	102.7175	4.6875	1342.1925	140.7687	0.0308	0.0032
13	102.7800	4.7500	1788.1380	238.2589	0.0411	0.0055
14	102.8425	4.8125	2234.0835	363.6950	0.0513	0.0083
15	102.9050	4.8750	2680.0290	517.0498	0.0615	0.0119
16	102.9675	4.9375	3125.9745	698.3088	0.0718	0.0160
17	103.0300	5.0000	3571.9200	907.4632	0.0820	0.0208
18	103.0925	5.0625	5374.2150	1185.1192	0.1234	0.0272
19	103.1550	5.1250	7176.5100	1575.9744	0.1648	0.0362
20	103.2175	5.1875	8978.8050	2079.7775	0.2061	0.0477
21	103.2800	5.2500	10781.1000	2696.4165	0.2475	0.0619
22	103.3425	5.3125	12583.3950	3425.8318	0.2889	0.0786
23	103.4050	5.3750	14385.6900	4267.9877	0.3302	0.0980
24	103.4675	5.4375	16187.9850	5222.8612	0.3716	0.1199
25	103.5300	5.5000	17990.2800	6290.4367	0.4130	0.1444
26	103.5925	5.5625	18251.6400	7422.9868	0.4190	0.1704
27	103.6550	5.6250	18513.0000	8571.8722	0.4250	0.1968
28	103.7175	5.6875	18774.3600	9737.0926	0.4310	0.2235
29	103.7800	5.7500	19035.7200	10918.6482	0.4370	0.2507
30	103.8425	5.8125	19297.0800	12116.5389	0.4430	0.2782
31	103.9050	5.8750	19558.4400	13330.7648	0.4490	0.3060
32	103.9675	5.9375	19819.8000	14561.3257	0.4550	0.3343
33	104.0300	6.0000	20081.1600	15808.2218	0.4610	0.3629

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| Variable storage data for node | CJ-1
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	96.6000	0.0000	4.3560	0.0000	0.0001	0.0000
2	97.6637	1.0637	4.3560	4.6337	0.0001	0.0001
3	98.7275	2.1275	4.3560	9.2674	0.0001	0.0002
4	99.7912	3.1913	4.3560	13.9011	0.0001	0.0003
5	100.8550	4.2550	4.3560	18.5348	0.0001	0.0004
6	101.9187	5.3187	4.3560	23.1685	0.0001	0.0005
7	102.9825	6.3825	4.3560	27.8022	0.0001	0.0006
8	104.0463	7.4463	4.3560	32.4359	0.0001	0.0007
9	105.1100	8.5100	4.3560	37.0696	0.0001	0.0009
10	105.1725	8.5725	450.3015	47.4643	0.0103	0.0011
11	105.2350	8.6350	896.2470	88.7524	0.0206	0.0020
12	105.2975	8.6975	1342.1925	158.2362	0.0308	0.0036
13	105.3600	8.7600	1788.1380	255.7265	0.0411	0.0059
14	105.4225	8.8225	2234.0835	381.1626	0.0513	0.0088
15	105.4850	8.8850	2680.0290	534.5174	0.0615	0.0123
16	105.5475	8.9475	3125.9745	715.7763	0.0718	0.0164
17	105.6100	9.0100	3571.9200	924.9307	0.0820	0.0212
18	105.6725	9.0725	5374.2150	1202.5868	0.1234	0.0276
19	105.7350	9.1350	7176.5100	1593.4419	0.1648	0.0366
20	105.7975	9.1975	8978.8050	2097.2450	0.2061	0.0481
21	105.8600	9.2600	10781.1000	2713.8841	0.2475	0.0623
22	105.9225	9.3225	12583.3950	3443.2994	0.2889	0.0790
23	105.9850	9.3850	14385.6900	4285.4553	0.3302	0.0984
24	106.0475	9.4475	16187.9850	5240.3288	0.3716	0.1203
25	106.1100	9.5100	17990.2800	6307.9042	0.4130	0.1448
26	106.1725	9.5725	18251.6400	7440.4544	0.4190	0.1708
27	106.2350	9.6350	18513.0000	8589.3397	0.4250	0.1972
28	106.2975	9.6975	18774.3600	9754.5602	0.4310	0.2239
29	106.3600	9.7600	19035.7200	10936.1158	0.4370	0.2511
30	106.4225	9.8225	19297.0800	12134.0065	0.4430	0.2786
31	106.4850	9.8850	19558.4400	13348.2323	0.4490	0.3064
32	106.5475	9.9475	19819.8000	14578.7933	0.4550	0.3347
33	106.6100	10.0100	20081.1600	15825.6894	0.4610	0.3633
34	106.6100	10.0100	20081.1600	15825.6894	0.4610	0.3633

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| Variable storage data for node | CC-2
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	102.3100	0.0000	4.3560	0.0000	0.0001	0.0000
2	102.6850	0.3750	4.3560	1.6335	0.0001	0.0000
3	103.0600	0.7500	4.3560	3.2670	0.0001	0.0001
4	103.4350	1.1250	4.3560	4.9005	0.0001	0.0001
5	103.8100	1.5000	4.3560	6.5340	0.0001	0.0001
6	104.1850	1.8750	4.3560	8.1675	0.0001	0.0002
7	104.5600	2.2500	4.3560	9.8010	0.0001	0.0002
8	104.9350	2.6250	4.3560	11.4345	0.0001	0.0003
9	105.3100	3.0000	4.3560	13.0680	0.0001	0.0003
10	105.3725	3.0625	450.3015	23.4627	0.0103	0.0005
11	105.4350	3.1250	896.2470	64.7508	0.0206	0.0015
12	105.4975	3.1875	1342.1925	134.2347	0.0308	0.0031
13	105.5600	3.2500	1788.1380	231.7249	0.0411	0.0053
14	105.6225	3.3125	2234.0835	357.1610	0.0513	0.0082
15	105.6850	3.3750	2680.0290	510.5158	0.0615	0.0117
16	105.7475	3.4375	3125.9745	691.7748	0.0718	0.0159
17	105.8100	3.5000	3571.9200	900.9292	0.0820	0.0207
18	105.8725	3.5625	5374.2150	1178.5852	0.1234	0.0271
19	105.9350	3.6250	7176.5100	1569.4404	0.1648	0.0360
20	105.9975	3.6875	8978.8050	2073.2435	0.2061	0.0476
21	106.0600	3.7500	10781.1000	2689.8825	0.2475	0.0618
22	106.1225	3.8125	12583.3950	3419.2978	0.2889	0.0785
23	106.1850	3.8750	14385.6900	4261.4537	0.3302	0.0978
24	106.2475	3.9375	16187.9850	5216.3272	0.3716	0.1198
25	106.3100	4.0000	17990.2800	6283.9027	0.4130	0.1443
26	106.3725	4.0625	18251.6400	7416.4528	0.4190	0.1703
27	106.4350	4.1250	18513.0000	8565.3382	0.4250	0.1966
28	106.4975	4.1875	18774.3600	9730.5586	0.4310	0.2234
29	106.5600	4.2500	19035.7200	10912.1142	0.4370	0.2505
30	106.6225	4.3125	19297.0800	12110.0049	0.4430	0.2780
31	106.6850	4.3750	19558.4400	13324.2308	0.4490	0.3059
32	106.7475	4.4375	19819.8000	14554.7917	0.4550	0.3341
33	106.8100	4.5000	20081.1600	15801.6878	0.4610	0.3628

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| Variable storage data for node | CC-3
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	103.9400	0.0000	4.3560	0.0000	0.0001	0.0000
2	104.3150	0.3750	4.3560	1.6335	0.0001	0.0000
3	104.6900	0.7500	4.3560	3.2670	0.0001	0.0001
4	105.0650	1.1250	4.3560	4.9005	0.0001	0.0001

5	105.4400	1.5000	4.3560	6.5340	0.0001	0.0001
6	105.8150	1.8750	4.3560	8.1675	0.0001	0.0002
7	106.1900	2.2500	4.3560	9.8010	0.0001	0.0002
8	106.5650	2.6250	4.3560	11.4345	0.0001	0.0003
9	106.9400	3.0000	4.3560	13.0680	0.0001	0.0003
10	107.0025	3.0625	450.3015	23.4627	0.0103	0.0005
11	107.0650	3.1250	896.2470	64.7508	0.0206	0.0015
12	107.1275	3.1875	1342.1925	134.2347	0.0308	0.0031
13	107.1900	3.2500	1788.1380	231.7249	0.0411	0.0053
14	107.2525	3.3125	2234.0835	357.1610	0.0513	0.0082
15	107.3150	3.3750	2680.0290	510.5158	0.0615	0.0117
16	107.3775	3.4375	3125.9745	691.7748	0.0718	0.0159
17	107.4400	3.5000	3571.9200	900.9292	0.0820	0.0207
18	107.5025	3.5625	5374.2150	1178.5852	0.1234	0.0271
19	107.5650	3.6250	7176.5100	1569.4404	0.1648	0.0360
20	107.6275	3.6875	8978.8050	2073.2435	0.2061	0.0476
21	107.6900	3.7500	10781.1000	2689.8825	0.2475	0.0618
22	107.7525	3.8125	12583.3950	3419.2978	0.2889	0.0785
23	107.8150	3.8750	14385.6900	4261.4537	0.3302	0.0978
24	107.8775	3.9375	16187.9850	5216.3272	0.3716	0.1198
25	107.9400	4.0000	17990.2800	6283.9027	0.4130	0.1443
26	108.0025	4.0625	18251.6400	7416.4528	0.4190	0.1703
27	108.0650	4.1250	18513.0000	8565.3382	0.4250	0.1966
28	108.1275	4.1875	18774.3600	9730.5586	0.4310	0.2234
29	108.1900	4.2500	19035.7200	10912.1142	0.4370	0.2505
30	108.2525	4.3125	19297.0800	12110.0049	0.4430	0.2780
31	108.3150	4.3750	19558.4400	13324.2308	0.4490	0.3059
32	108.3775	4.4375	19819.8000	14554.7917	0.4550	0.3341
33	108.4400	4.5000	20081.1600	15801.6878	0.4610	0.3628

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| Variable storage data for node | CJ-2A
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	96.3000	0.0000	4.3560	0.0000	0.0001	0.0000
2	108.5125	12.2125	4.3560	53.1976	0.0001	0.0012
3	120.7250	24.4250	4.3560	106.3953	0.0001	0.0024
4	132.9375	36.6375	4.3560	159.5930	0.0001	0.0037
5	145.1500	48.8500	4.3560	212.7906	0.0001	0.0049
6	157.3625	61.0625	4.3560	265.9882	0.0001	0.0061
7	169.5750	73.2750	4.3560	319.1859	0.0001	0.0073
8	181.7875	85.4875	4.3560	372.3835	0.0001	0.0085
9	194.0000	97.7000	4.3560	425.5812	0.0001	0.0098
10	194.0625	97.7625	450.3015	435.9759	0.0103	0.0100
11	194.1250	97.8250	896.2470	477.2640	0.0206	0.0110
12	194.1875	97.8875	1342.1925	546.7479	0.0308	0.0126
13	194.2500	97.9500	1788.1380	644.2381	0.0411	0.0148
14	194.3125	98.0125	2234.0835	769.6742	0.0513	0.0177
15	194.3750	98.0750	2680.0290	923.0290	0.0615	0.0212
16	194.4375	98.1375	3125.9745	1104.2880	0.0718	0.0254
17	194.5000	98.2000	3571.9200	1313.4424	0.0820	0.0302
18	194.5625	98.2625	5374.2150	1591.0984	0.1234	0.0365
19	194.6250	98.3250	7176.5100	1981.9536	0.1648	0.0455
20	194.6875	98.3875	8978.8050	2485.7567	0.2061	0.0571
21	194.7500	98.4500	10781.1000	3102.3957	0.2475	0.0712
22	194.8125	98.5125	12583.3950	3831.8110	0.2889	0.0880
23	194.8750	98.5750	14385.6900	4673.9669	0.3302	0.1073
24	194.9375	98.6375	16187.9850	5628.8404	0.3716	0.1292
25	195.0000	98.7000	17990.2800	6696.4159	0.4130	0.1537
26	195.0625	98.7625	18251.6400	7828.9660	0.4190	0.1797
27	195.1250	98.8250	18513.0000	8977.8514	0.4250	0.2061
28	195.1875	98.8875	18774.3600	10143.0718	0.4310	0.2329
29	195.2500	98.9500	19035.7200	11324.6274	0.4370	0.2600
30	195.3125	99.0125	19297.0800	12522.5181	0.4430	0.2875
31	195.3750	99.0750	19558.4400	13736.7440	0.4490	0.3154
32	195.4375	99.1375	19819.8000	14967.3049	0.4550	0.3436
33	195.5000	99.2000	20081.1600	16214.2010	0.4610	0.3722

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| Variable storage data for node | CJ-2
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	96.3200	0.0000	4.3560	0.0000	0.0001	0.0000
2	97.4237	1.1038	4.3560	4.8079	0.0001	0.0001
3	98.5275	2.2075	4.3560	9.6159	0.0001	0.0002
4	99.6312	3.3113	4.3560	14.4238	0.0001	0.0003
5	100.7350	4.4150	4.3560	19.2317	0.0001	0.0004
6	101.8387	5.5187	4.3560	24.0397	0.0001	0.0006
7	102.9425	6.6225	4.3560	28.8476	0.0001	0.0007
8	104.0462	7.7263	4.3560	33.6555	0.0001	0.0008
9	105.1500	8.8300	4.3560	38.4635	0.0001	0.0009
10	105.2125	8.8925	450.3015	48.8582	0.0103	0.0011
11	105.2750	8.9550	896.2470	90.1463	0.0206	0.0021
12	105.3375	9.0175	1342.1925	159.6301	0.0308	0.0037
13	105.4000	9.0800	1788.1380	257.1204	0.0411	0.0059
14	105.4625	9.1425	2234.0835	382.5565	0.0513	0.0088
15	105.5250	9.2050	2680.0290	535.9113	0.0615	0.0123
16	105.5875	9.2675	3125.9745	717.1703	0.0718	0.0165
17	105.6500	9.3300	3571.9200	926.3246	0.0820	0.0213
18	105.7125	9.3925	5374.2150	1203.9807	0.1234	0.0276
19	105.7750	9.4550	7176.5100	1594.8358	0.1648	0.0366
20	105.8375	9.5175	8978.8050	2098.6389	0.2061	0.0482
21	105.9000	9.5800	10781.1000	2715.2780	0.2475	0.0623
22	105.9625	9.6425	12583.3950	3444.6933	0.2889	0.0791
23	106.0250	9.7050	14385.6900	4286.8492	0.3302	0.0984
24	106.0875	9.7675	16187.9850	5241.7227	0.3716	0.1203
25	106.1500	9.8300	17990.2800	6309.2981	0.4130	0.1448
26	106.2125	9.8925	18251.6400	7441.8483	0.4190	0.1708
27	106.2750	9.9550	18513.0000	8590.7336	0.4250	0.1972
28	106.3375	10.0175	18774.3600	9755.9541	0.4310	0.2240
29	106.4000	10.0800	19035.7200	10937.5097	0.4370	0.2511
30	106.4625	10.1425	19297.0800	12135.4004	0.4430	0.2786
31	106.5250	10.2050	19558.4400	13349.6263	0.4490	0.3065
32	106.5875	10.2675	19819.8000	14580.1872	0.4550	0.3347
33	106.6500	10.3300	20081.1600	15827.0833	0.4610	0.3633
34	106.6500	10.3300	20081.1600	15827.0833	0.4610	0.3633

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| Variable storage data for node | CJ-3
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	96.1800	0.0000	4.3560	0.0000	0.0001	0.0000
2	97.4113	1.2312	4.3560	5.3633	0.0001	0.0001
3	98.6425	2.4625	4.3560	10.7266	0.0001	0.0002
4	99.8738	3.6937	4.3560	16.0900	0.0001	0.0004
5	101.1050	4.9250	4.3560	21.4533	0.0001	0.0005
6	102.3363	6.1562	4.3560	26.8166	0.0001	0.0006
7	103.5675	7.3875	4.3560	32.1799	0.0001	0.0007
8	104.7988	8.6188	4.3560	37.5433	0.0001	0.0009
9	106.0300	9.8500	4.3560	42.9066	0.0001	0.0010
10	106.0925	9.9125	450.3015	53.3013	0.0103	0.0012
11	106.1550	9.9750	896.2470	94.5894	0.0206	0.0022

12	106.2175	10.0375	1342.1925	164.0733	0.0308	0.0038
13	106.2800	10.1000	1788.1380	261.5635	0.0411	0.0060
14	106.3425	10.1625	2234.0835	386.9996	0.0513	0.0089
15	106.4050	10.2250	2680.0290	540.3544	0.0615	0.0124
16	106.4675	10.2875	3125.9745	721.6134	0.0718	0.0166
17	106.5300	10.3500	3571.9200	930.7678	0.0820	0.0214
18	106.5925	10.4125	5374.2150	1208.4238	0.1234	0.0277
19	106.6550	10.4750	7176.5100	1599.2790	0.1648	0.0367
20	106.7175	10.5375	8978.8050	2103.0821	0.2061	0.0483
21	106.7800	10.6000	10781.1000	2719.7211	0.2475	0.0624
22	106.8425	10.6625	12583.3950	3449.1364	0.2889	0.0792
23	106.9050	10.7250	14385.6900	4291.2923	0.3302	0.0985
24	106.9675	10.7875	16187.9850	5246.1658	0.3716	0.1204
25	107.0300	10.8500	17990.2800	6313.7413	0.4130	0.1449
26	107.0925	10.9125	18251.6400	7446.2914	0.4190	0.1709
27	107.1550	10.9750	18513.0000	8595.1768	0.4250	0.1973
28	107.2175	11.0375	18774.3600	9760.3972	0.4310	0.2241
29	107.2800	11.1000	19035.7200	10941.9528	0.4370	0.2512
30	107.3425	11.1625	19297.0800	12139.8435	0.4430	0.2787
31	107.4050	11.2250	19558.4400	13354.0694	0.4490	0.3066
32	107.4675	11.2875	19819.8000	14584.6303	0.4550	0.3348
33	107.5300	11.3500	20081.1600	15831.5264	0.4610	0.3634

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| Variable storage data for node | CD-1
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	101.0300	0.0000	4.3560	0.0000	0.0001	0.0000
2	101.5925	0.5625	4.3560	2.4502	0.0001	0.0001
3	102.1550	1.1250	4.3560	4.9005	0.0001	0.0001
4	102.7175	1.6875	4.3560	7.3507	0.0001	0.0002
5	103.2800	2.2500	4.3560	9.8010	0.0001	0.0002
6	103.8425	2.8125	4.3560	12.2512	0.0001	0.0003
7	104.4050	3.3750	4.3560	14.7015	0.0001	0.0003
8	104.9675	3.9375	4.3560	17.1517	0.0001	0.0004
9	105.5300	4.5000	4.3560	19.6020	0.0001	0.0004
10	105.5925	4.5625	450.3015	29.9967	0.0103	0.0007
11	105.6550	4.6250	896.2470	71.2848	0.0206	0.0016
12	105.7175	4.6875	1342.1925	140.7687	0.0308	0.0032
13	105.7800	4.7500	1788.1380	238.2589	0.0411	0.0055
14	105.8425	4.8125	2234.0835	363.6950	0.0513	0.0083
15	105.9050	4.8750	2680.0290	517.0498	0.0615	0.0119
16	105.9675	4.9375	3125.9745	698.3088	0.0718	0.0160
17	106.0300	5.0000	3571.9200	907.4632	0.0820	0.0208
18	106.0925	5.0625	5374.2150	1185.1192	0.1234	0.0272
19	106.1550	5.1250	7176.5100	1575.9744	0.1648	0.0362
20	106.2175	5.1875	8978.8050	2079.7775	0.2061	0.0477
21	106.2800	5.2500	10781.1000	2696.4165	0.2475	0.0619
22	106.3425	5.3125	12583.3950	3425.8318	0.2889	0.0786
23	106.4050	5.3750	14385.6900	4267.9877	0.3302	0.0980
24	106.4675	5.4375	16187.9850	5222.8612	0.3716	0.1199
25	106.5300	5.5000	17990.2800	6290.4367	0.4130	0.1444
26	106.5925	5.5625	18251.6400	7422.9868	0.4190	0.1704
27	106.6550	5.6250	18513.0000	8571.8722	0.4250	0.1968
28	106.7175	5.6875	18774.3600	9737.0926	0.4310	0.2235
29	106.7800	5.7500	19035.7200	10918.6482	0.4370	0.2507
30	106.8425	5.8125	19297.0800	12116.5389	0.4430	0.2782
31	106.9050	5.8750	19558.4400	13330.7648	0.4490	0.3060
32	106.9675	5.9375	19819.8000	14561.3257	0.4550	0.3343
33	107.0300	6.0000	20081.1600	15808.2218	0.4610	0.3629

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| Variable storage data for node | CD-2
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	100.8200	0.0000	4.3560	0.0000	0.0001	0.0000
2	101.3800	0.5600	4.3560	2.4394	0.0001	0.0001
3	101.9400	1.1200	4.3560	4.8787	0.0001	0.0001
4	102.5000	1.6800	4.3560	7.3181	0.0001	0.0002
5	103.0600	2.2400	4.3560	9.7574	0.0001	0.0002
6	103.6200	2.8000	4.3560	12.1968	0.0001	0.0003
7	104.1800	3.3600	4.3560	14.6362	0.0001	0.0003
8	104.7400	3.9200	4.3560	17.0755	0.0001	0.0004
9	105.3000	4.4800	4.3560	19.5149	0.0001	0.0004
10	105.3625	4.5425	450.3015	29.9096	0.0103	0.0007
11	105.4250	4.6050	896.2470	71.1977	0.0206	0.0016
12	105.4875	4.6675	1342.1925	140.6815	0.0308	0.0032
13	105.5500	4.7300	1788.1380	238.1718	0.0411	0.0055
14	105.6125	4.7925	2234.0835	363.6079	0.0513	0.0083
15	105.6750	4.8550	2680.0290	516.9627	0.0615	0.0119
16	105.7375	4.9175	3125.9745	698.2217	0.0718	0.0160
17	105.8000	4.9800	3571.9200	907.3760	0.0820	0.0208
18	105.8625	5.0425	5374.2150	1185.0321	0.1234	0.0272
19	105.9250	5.1050	7176.5100	1575.8872	0.1648	0.0362
20	105.9875	5.1675	8978.8050	2079.6903	0.2061	0.0477
21	106.0500	5.2300	10781.1000	2696.3294	0.2475	0.0619
22	106.1125	5.2925	12583.3950	3425.7447	0.2889	0.0786
23	106.1750	5.3550	14385.6900	4267.9006	0.3302	0.0980
24	106.2375	5.4175	16187.9850	5222.7741	0.3716	0.1199
25	106.3000	5.4800	17990.2800	6290.3495	0.4130	0.1444
26	106.3625	5.5425	18251.6400	7422.8997	0.4190	0.1704
27	106.4250	5.6050	18513.0000	8571.7850	0.4250	0.1968
28	106.4875	5.6675	18774.3600	9737.0055	0.4310	0.2235
29	106.5500	5.7300	19035.7200	10918.5611	0.4370	0.2507
30	106.6125	5.7925	19297.0800	12116.4518	0.4430	0.2782
31	106.6750	5.8550	19558.4400	13330.6777	0.4490	0.3060
32	106.7375	5.9175	19819.8000	14561.2386	0.4550	0.3343
33	106.8000	5.9800	20081.1600	15808.1347	0.4610	0.3629
34	106.8000	5.9800	20081.1600	15808.1347	0.4610	0.3629

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| Variable storage data for node | CD-3
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	100.7100	0.0000	4.3560	0.0000	0.0001	0.0000
2	101.2725	0.5625	4.3560	2.4502	0.0001	0.0001
3	101.8350	1.1250	4.3560	4.9005	0.0001	0.0001
4	102.3975	1.6875	4.3560	7.3507	0.0001	0.0002
5	102.9600	2.2500	4.3560	9.8010	0.0001	0.0002
6	103.5225	2.8125	4.3560	12.2512	0.0001	0.0003
7	104.0850	3.3750	4.3560	14.7015	0.0001	0.0003
8	104.6475	3.9375	4.3560	17.1517	0.0001	0.0004
9	105.2100	4.5000	4.3560	19.6020	0.0001	0.0004
10	105.2725	4.5625	450.3015	29.9967	0.0103	0.0007
11	105.3350	4.6250	896.2470	71.2848	0.0206	0.0016
12	105.3975	4.6875	1342.1925	140.7687	0.0308	0.0032
13	105.4600	4.7500	1788.1380	238.2589	0.0411	0.0055
14	105.5225	4.8125	2234.0835	363.6950	0.0513	0.0083
15	105.5850	4.8750	2680.0290	517.0498	0.0615	0.0119
16	105.6475	4.9375	3125.9745	698.3088	0.0718	0.0160
17	105.7100	5.0000	3571.9200	907.4632	0.0820	0.0208
18	105.7725	5.0625	5374.2150	1185.1192	0.1234	0.0272

19	105.8350	5.1250	7176.5100	1575.9744	0.1648	0.0362
20	105.8975	5.1875	8978.8050	2079.7775	0.2061	0.0477
21	105.9600	5.2500	10781.1000	2696.4165	0.2475	0.0619
22	106.0225	5.3125	12583.3950	3425.8318	0.2889	0.0786
23	106.0850	5.3750	14385.6900	4267.9877	0.3302	0.0980
24	106.1475	5.4375	16187.9850	5222.8612	0.3716	0.1199
25	106.2100	5.5000	17990.2800	6290.4367	0.4130	0.1444
26	106.2725	5.5625	18251.6400	7422.9868	0.4190	0.1704
27	106.3350	5.6250	18513.0000	8571.8722	0.4250	0.1968
28	106.3975	5.6875	18774.3600	9737.0926	0.4310	0.2235
29	106.4600	5.7500	19035.7200	10918.6482	0.4370	0.2507
30	106.5225	5.8125	19297.0800	12116.5389	0.4430	0.2782
31	106.5850	5.8750	19558.4400	13330.7648	0.4490	0.3060
32	106.6475	5.9375	19819.8000	14561.3257	0.4550	0.3343
33	106.7100	6.0000	20081.1600	15808.2218	0.4610	0.3629

Variable storage data for node | CD-4						
Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	100.8300	0.0000	4.3560	0.0000	0.0001	0.0000
2	101.3925	0.5625	4.3560	2.4502	0.0001	0.0001
3	101.9550	1.1250	4.3560	4.9005	0.0001	0.0001
4	102.5175	1.6875	4.3560	7.3507	0.0001	0.0002
5	103.0800	2.2500	4.3560	9.8010	0.0001	0.0002
6	103.6425	2.8125	4.3560	12.2512	0.0001	0.0003
7	104.2050	3.3750	4.3560	14.7015	0.0001	0.0003
8	104.7675	3.9375	4.3560	17.1517	0.0001	0.0004
9	105.3300	4.5000	4.3560	19.6020	0.0001	0.0004
10	105.3925	4.5625	450.3015	29.9967	0.0103	0.0007
11	105.4550	4.6250	896.2470	71.2848	0.0206	0.0016
12	105.5175	4.6875	1342.1925	140.7687	0.0308	0.0032
13	105.5800	4.7500	1788.1380	238.2589	0.0411	0.0055
14	105.6425	4.8125	2234.0835	363.6950	0.0513	0.0083
15	105.7050	4.8750	2680.0290	517.0498	0.0615	0.0119
16	105.7675	4.9375	3125.9745	698.3088	0.0718	0.0160
17	105.8300	5.0000	3571.9200	907.4632	0.0820	0.0208
18	105.8925	5.0625	5374.2150	1185.1192	0.1234	0.0272
19	105.9550	5.1250	7176.5100	1575.9744	0.1648	0.0362
20	106.0175	5.1875	8978.8050	2079.7775	0.2061	0.0477
21	106.0800	5.2500	10781.1000	2696.4165	0.2475	0.0619
22	106.1425	5.3125	12583.3950	3425.8318	0.2889	0.0786
23	106.2050	5.3750	14385.6900	4267.9877	0.3302	0.0980
24	106.2675	5.4375	16187.9850	5222.8612	0.3716	0.1199
25	106.3300	5.5000	17990.2800	6290.4367	0.4130	0.1444
26	106.3925	5.5625	18251.6400	7422.9868	0.4190	0.1704
27	106.4550	5.6250	18513.0000	8571.8722	0.4250	0.1968
28	106.5175	5.6875	18774.3600	9737.0926	0.4310	0.2235
29	106.5800	5.7500	19035.7200	10918.6482	0.4370	0.2507
30	106.6425	5.8125	19297.0800	12116.5389	0.4430	0.2782
31	106.7050	5.8750	19558.4400	13330.7648	0.4490	0.3060
32	106.7675	5.9375	19819.8000	14561.3257	0.4550	0.3343
33	106.8300	6.0000	20081.1600	15808.2218	0.4610	0.3629

Variable storage data for node | CD-5						
Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	101.0600	0.0000	4.3560	0.0000	0.0001	0.0000
2	101.6225	0.5625	4.3560	2.4502	0.0001	0.0001
3	102.1850	1.1250	4.3560	4.9005	0.0001	0.0001
4	102.7475	1.6875	4.3560	7.3507	0.0001	0.0002
5	103.3100	2.2500	4.3560	9.8010	0.0001	0.0002
6	103.8725	2.8125	4.3560	12.2512	0.0001	0.0003
7	104.4350	3.3750	4.3560	14.7015	0.0001	0.0003
8	104.9975	3.9375	4.3560	17.1517	0.0001	0.0004
9	105.5600	4.5000	4.3560	19.6020	0.0001	0.0004
10	105.6225	4.5625	450.3015	29.9967	0.0103	0.0007
11	105.6850	4.6250	896.2470	71.2848	0.0206	0.0016
12	105.7475	4.6875	1342.1925	140.7687	0.0308	0.0032
13	105.8100	4.7500	1788.1380	238.2589	0.0411	0.0055
14	105.8725	4.8125	2234.0835	363.6950	0.0513	0.0083
15	105.9350	4.8750	2680.0290	517.0498	0.0615	0.0119
16	105.9975	4.9375	3125.9745	698.3088	0.0718	0.0160
17	106.0600	5.0000	3571.9200	907.4632	0.0820	0.0208
18	106.1225	5.0625	5374.2150	1185.1192	0.1234	0.0272
19	106.1850	5.1250	7176.5100	1575.9744	0.1648	0.0362
20	106.2475	5.1875	8978.8050	2079.7775	0.2061	0.0477
21	106.3100	5.2500	10781.1000	2696.4165	0.2475	0.0619
22	106.3725	5.3125	12583.3950	3425.8318	0.2889	0.0786
23	106.4350	5.3750	14385.6900	4267.9877	0.3302	0.0980
24	106.4975	5.4375	16187.9850	5222.8612	0.3716	0.1199
25	106.5600	5.5000	17990.2800	6290.4367	0.4130	0.1444
26	106.6225	5.5625	18251.6400	7422.9868	0.4190	0.1704
27	106.6850	5.6250	18513.0000	8571.8722	0.4250	0.1968
28	106.7475	5.6875	18774.3600	9737.0926	0.4310	0.2235
29	106.8100	5.7500	19035.7200	10918.6482	0.4370	0.2507
30	106.8725	5.8125	19297.0800	12116.5389	0.4430	0.2782
31	106.9350	5.8750	19558.4400	13330.7648	0.4490	0.3060
32	106.9975	5.9375	19819.8000	14561.3257	0.4550	0.3343
33	107.0600	6.0000	20081.1600	15808.2218	0.4610	0.3629

Variable storage data for node | CD-6						
Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	101.0700	0.0000	4.3560	0.0000	0.0001	0.0000
2	101.6325	0.5625	4.3560	2.4502	0.0001	0.0001
3	102.1950	1.1250	4.3560	4.9005	0.0001	0.0001
4	102.7575	1.6875	4.3560	7.3507	0.0001	0.0002
5	103.3200	2.2500	4.3560	9.8010	0.0001	0.0002
6	103.8825	2.8125	4.3560	12.2512	0.0001	0.0003
7	104.4450	3.3750	4.3560	14.7015	0.0001	0.0003
8	105.0075	3.9375	4.3560	17.1517	0.0001	0.0004
9	105.5700	4.5000	4.3560	19.6020	0.0001	0.0004
10	105.6325	4.5625	450.3015	29.9967	0.0103	0.0007
11	105.6950	4.6250	896.2470	71.2848	0.0206	0.0016
12	105.7575	4.6875	1342.1925	140.7687	0.0308	0.0032
13	105.8200	4.7500	1788.1380	238.2589	0.0411	0.0055
14	105.8825	4.8125	2234.0835	363.6950	0.0513	0.0083
15	105.9450	4.8750	2680.0290	517.0498	0.0615	0.0119
16	106.0075	4.9375	3125.9745	698.3088	0.0718	0.0160
17	106.0700	5.0000	3571.9200	907.4632	0.0820	0.0208
18	106.1325	5.0625	5374.2150	1185.1192	0.1234	0.0272
19	106.1950	5.1250	7176.5100	1575.9744	0.1648	0.0362
20	106.2575	5.1875	8978.8050	2079.7775	0.2061	0.0477
21	106.3200	5.2500	10781.1000	2696.4165	0.2475	0.0619
22	106.3825	5.3125	12583.3950	3425.8318	0.2889	0.0786
23	106.4450	5.3750	14385.6900	4267.9877	0.3302	0.0980
24	106.5075	5.4375	16187.9850	5222.8612	0.3716	0.1199
25	106.5700	5.5000	17990.2800	6290.4367	0.4130	0.1444
26	106.6325	5.5625	18251.6400	7422.9868	0.4190	0.1704

27	106.6950	5.6250	18513.0000	8571.8722	0.4250	0.1968
28	106.7575	5.6875	18774.3600	9737.0926	0.4310	0.2235
29	106.8200	5.7500	19035.7200	10918.6482	0.4370	0.2507
30	106.8825	5.8125	19297.0800	12116.5389	0.4430	0.2782
31	106.9450	5.8750	19558.4400	13330.7648	0.4490	0.3060
32	107.0075	5.9375	19819.8000	14561.3257	0.4550	0.3343
33	107.0700	6.0000	20081.1600	15808.2218	0.4610	0.3629

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| Variable storage data for node | CD-7
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	100.8600	0.0000	4.3560	0.0000	0.0001	0.0000
2	101.4225	0.5625	4.3560	2.4502	0.0001	0.0001
3	101.9850	1.1250	4.3560	4.9005	0.0001	0.0001
4	102.5475	1.6875	4.3560	7.3507	0.0001	0.0002
5	103.1100	2.2500	4.3560	9.8010	0.0001	0.0002
6	103.6725	2.8125	4.3560	12.2512	0.0001	0.0003
7	104.2350	3.3750	4.3560	14.7015	0.0001	0.0003
8	104.7975	3.9375	4.3560	17.1517	0.0001	0.0004
9	105.3600	4.5000	4.3560	19.6020	0.0001	0.0004
10	105.4225	4.5625	450.3015	29.9967	0.0103	0.0007
11	105.4850	4.6250	896.2470	71.2848	0.0206	0.0016
12	105.5475	4.6875	1342.1925	140.7687	0.0308	0.0032
13	105.6100	4.7500	1788.1380	238.2589	0.0411	0.0055
14	105.6725	4.8125	2234.0835	363.6950	0.0513	0.0083
15	105.7350	4.8750	2680.0290	517.0498	0.0615	0.0119
16	105.7975	4.9375	3125.9745	698.3088	0.0718	0.0160
17	105.8600	5.0000	3571.9200	907.4632	0.0820	0.0208
18	105.9225	5.0625	5374.2150	1185.1192	0.1234	0.0272
19	105.9850	5.1250	7176.5100	1575.9744	0.1648	0.0362
20	106.0475	5.1875	8978.8050	2079.7775	0.2061	0.0477
21	106.1100	5.2500	10781.1000	2696.4165	0.2475	0.0619
22	106.1725	5.3125	12583.3950	3425.8318	0.2889	0.0786
23	106.2350	5.3750	14385.6900	4267.9877	0.3302	0.0980
24	106.2975	5.4375	16187.9850	5222.8612	0.3716	0.1199
25	106.3600	5.5000	17990.2800	6290.4367	0.4130	0.1444
26	106.4225	5.5625	18251.6400	7422.9868	0.4190	0.1704
27	106.4850	5.6250	18513.0000	8571.8722	0.4250	0.1968
28	106.5475	5.6875	18774.3600	9737.0926	0.4310	0.2235
29	106.6100	5.7500	19035.7200	10918.6482	0.4370	0.2507
30	106.6725	5.8125	19297.0800	12116.5389	0.4430	0.2782
31	106.7350	5.8750	19558.4400	13330.7648	0.4490	0.3060
32	106.7975	5.9375	19819.8000	14561.3257	0.4550	0.3343
33	106.8600	6.0000	20081.1600	15808.2218	0.4610	0.3629

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| Variable storage data for node | CJ-29
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	95.0900	0.0000	4.3560	0.0000	0.0001	0.0000
2	96.3450	1.2550	4.3560	5.4668	0.0001	0.0001
3	97.6000	2.5100	4.3560	10.9336	0.0001	0.0003
4	98.8550	3.7650	4.3560	16.4003	0.0001	0.0004
5	100.1100	5.0200	4.3560	21.8671	0.0001	0.0005
6	101.3650	6.2750	4.3560	27.3339	0.0001	0.0006
7	102.6200	7.5300	4.3560	32.8007	0.0001	0.0008
8	103.8750	8.7850	4.3560	38.2675	0.0001	0.0009
9	105.1300	10.0400	4.3560	43.7342	0.0001	0.0010
10	105.1925	10.1025	450.3015	54.1290	0.0103	0.0012
11	105.2550	10.1650	896.2470	95.4171	0.0206	0.0022
12	105.3175	10.2275	1342.1925	164.9009	0.0308	0.0038
13	105.3800	10.2900	1788.1380	262.3911	0.0411	0.0060
14	105.4425	10.3525	2234.0835	387.8273	0.0513	0.0089
15	105.5050	10.4150	2680.0290	541.1821	0.0615	0.0124
16	105.5675	10.4775	3125.9745	722.4410	0.0718	0.0166
17	105.6300	10.5400	3571.9200	931.5954	0.0820	0.0214
18	105.6925	10.6025	5374.2150	1209.2514	0.1234	0.0278
19	105.7550	10.6650	7176.5100	1600.1066	0.1648	0.0367
20	105.8175	10.7275	8978.8050	2103.9097	0.2061	0.0483
21	105.8800	10.7900	10781.1000	2720.5488	0.2475	0.0625
22	105.9425	10.8525	12583.3950	3449.9641	0.2889	0.0792
23	106.0050	10.9150	14385.6900	4292.1199	0.3302	0.0985
24	106.0675	10.9775	16187.9850	5246.9935	0.3716	0.1205
25	106.1300	11.0400	17990.2800	6314.5689	0.4130	0.1450
26	106.1925	11.1025	18251.6400	7447.1191	0.4190	0.1710
27	106.2550	11.1650	18513.0000	8596.0044	0.4250	0.1973
28	106.3175	11.2275	18774.3600	9761.2249	0.4310	0.2241
29	106.3800	11.2900	19035.7200	10942.7804	0.4370	0.2512
30	106.4425	11.3525	19297.0800	12140.6712	0.4430	0.2787
31	106.5050	11.4150	19558.4400	13354.8970	0.4490	0.3066
32	106.5675	11.4775	19819.8000	14585.4580	0.4550	0.3348
33	106.6300	11.5400	20081.1600	15832.3541	0.4610	0.3635

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| Variable storage data for node | CJ-28
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	96.4000	0.0000	4.3560	0.0000	0.0001	0.0000
2	97.5125	1.1125	4.3560	4.8460	0.0001	0.0001
3	98.6250	2.2250	4.3560	9.6921	0.0001	0.0002
4	99.7375	3.3375	4.3560	14.5381	0.0001	0.0003
5	100.8500	4.4500	4.3560	19.3842	0.0001	0.0004
6	101.9625	5.5625	4.3560	24.2302	0.0001	0.0006
7	103.0750	6.6750	4.3560	29.0763	0.0001	0.0007
8	104.1875	7.7875	4.3560	33.9224	0.0001	0.0008
9	105.3000	8.9000	4.3560	38.7684	0.0001	0.0009
10	105.3625	8.9625	450.3015	49.1631	0.0103	0.0011
11	105.4250	9.0250	896.2470	90.4512	0.0206	0.0021
12	105.4875	9.0875	1342.1925	159.9351	0.0308	0.0037
13	105.5500	9.1500	1788.1380	257.4253	0.0411	0.0059
14	105.6125	9.2125	2234.0835	382.8614	0.0513	0.0088
15	105.6750	9.2750	2680.0290	536.2162	0.0615	0.0123
16	105.7375	9.3375	3125.9745	717.4752	0.0718	0.0165
17	105.8000	9.4000	3571.9200	926.6296	0.0820	0.0213
18	105.8625	9.4625	5374.2150	1204.2856	0.1234	0.0276
19	105.9250	9.5250	7176.5100	1595.1408	0.1648	0.0366
20	105.9875	9.5875	8978.8050	2098.9439	0.2061	0.0482
21	106.0500	9.6500	10781.1000	2715.5829	0.2475	0.0623
22	106.1125	9.7125	12583.3950	3444.9982	0.2889	0.0791
23	106.1750	9.7750	14385.6900	4287.1541	0.3302	0.0984
24	106.2375	9.8375	16187.9850	5242.0276	0.3716	0.1203
25	106.3000	9.9000	17990.2800	6309.6031	0.4130	0.1448
26	106.3625	9.9625	18251.6400	7442.1532	0.4190	0.1708
27	106.4250	10.0250	18513.0000	8591.0386	0.4250	0.1972
28	106.4875	10.0875	18774.3600	9756.2590	0.4310	0.2240
29	106.5500	10.1500	19035.7200	10937.8146	0.4370	0.2511
30	106.6125	10.2125	19297.0800	12135.7053	0.4430	0.2786
31	106.6750	10.2750	19558.4400	13349.9312	0.4490	0.3065
32	106.7375	10.3375	19819.8000	14580.4921	0.4550	0.3347
33	106.8000	10.4000	20081.1600	15827.3882	0.4610	0.3633

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| Variable storage data for node | CJ-27
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	96.5100	0.0000	4.3560	0.0000	0.0001	0.0000
2	97.6400	1.1300	4.3560	4.9223	0.0001	0.0001
3	98.7700	2.2600	4.3560	9.8446	0.0001	0.0002
4	99.9000	3.3900	4.3560	14.7668	0.0001	0.0003
5	101.0300	4.5200	4.3560	19.6891	0.0001	0.0005
6	102.1600	5.6500	4.3560	24.6114	0.0001	0.0006
7	103.2900	6.7800	4.3560	29.5337	0.0001	0.0007
8	104.4200	7.9100	4.3560	34.4560	0.0001	0.0008
9	105.5500	9.0400	4.3560	39.3782	0.0001	0.0009
10	105.6125	9.1025	450.3015	49.7730	0.0103	0.0011
11	105.6750	9.1650	896.2470	91.0611	0.0206	0.0021
12	105.7375	9.2275	1342.1925	160.5449	0.0308	0.0037
13	105.8000	9.2900	1788.1380	258.0351	0.0411	0.0059
14	105.8625	9.3525	2234.0835	383.4713	0.0513	0.0088
15	105.9250	9.4150	2680.0290	536.8261	0.0615	0.0123
16	105.9875	9.4775	3125.9745	718.0850	0.0718	0.0165
17	106.0500	9.5400	3571.9200	927.2394	0.0820	0.0213
18	106.1125	9.6025	5374.2150	1204.8954	0.1234	0.0277
19	106.1750	9.6650	7176.5100	1595.7506	0.1648	0.0366
20	106.2375	9.7275	8978.8050	2099.5537	0.2061	0.0482
21	106.3000	9.7900	10781.1000	2716.1928	0.2475	0.0624
22	106.3625	9.8525	12583.3950	3445.6081	0.2889	0.0791
23	106.4250	9.9150	14385.6900	4287.7639	0.3302	0.0984
24	106.4875	9.9775	16187.9850	5242.6375	0.3716	0.1204
25	106.5500	10.0400	17990.2800	6310.2129	0.4130	0.1449
26	106.6125	10.1025	18251.6400	7442.7631	0.4190	0.1709
27	106.6750	10.1650	18513.0000	8591.6484	0.4250	0.1972
28	106.7375	10.2275	18774.3600	9756.8689	0.4310	0.2240
29	106.8000	10.2900	19035.7200	10938.4244	0.4370	0.2511
30	106.8625	10.3525	19297.0800	12136.3152	0.4430	0.2786
31	106.9250	10.4150	19558.4400	13350.5410	0.4490	0.3065
32	106.9875	10.4775	19819.8000	14581.1020	0.4550	0.3347
33	107.0500	10.5400	20081.1600	15827.9981	0.4610	0.3634

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| Variable storage data for node | CC-15
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	102.7800	0.0000	4.3560	0.0000	0.0001	0.0000
2	103.3425	0.5625	4.3560	2.4502	0.0001	0.0001
3	103.9050	1.1250	4.3560	4.9005	0.0001	0.0001
4	104.4675	1.6875	4.3560	7.3507	0.0001	0.0002
5	105.0300	2.2500	4.3560	9.8010	0.0001	0.0002
6	105.5925	2.8125	4.3560	12.2512	0.0001	0.0003
7	106.1550	3.3750	4.3560	14.7015	0.0001	0.0003
8	106.7175	3.9375	4.3560	17.1517	0.0001	0.0004
9	107.2800	4.5000	4.3560	19.6020	0.0001	0.0004
10	107.3425	4.5625	450.3015	29.9967	0.0103	0.0007
11	107.4050	4.6250	896.2470	71.2848	0.0206	0.0016
12	107.4675	4.6875	1342.1925	140.7687	0.0308	0.0032
13	107.5300	4.7500	1788.1380	238.2589	0.0411	0.0055
14	107.5925	4.8125	2234.0835	363.6950	0.0513	0.0083
15	107.6550	4.8750	2680.0290	517.0498	0.0615	0.0119
16	107.7175	4.9375	3125.9745	698.3088	0.0718	0.0160
17	107.7800	5.0000	3571.9200	907.4632	0.0820	0.0208
18	107.8425	5.0625	5374.2150	1185.1192	0.1234	0.0272
19	107.9050	5.1250	7176.5100	1575.9744	0.1648	0.0362
20	107.9675	5.1875	8978.8050	2079.7775	0.2061	0.0477
21	108.0300	5.2500	10781.1000	2696.4165	0.2475	0.0619
22	108.0925	5.3125	12583.3950	3425.8318	0.2889	0.0786
23	108.1550	5.3750	14385.6900	4267.9877	0.3302	0.0980
24	108.2175	5.4375	16187.9850	5222.8612	0.3716	0.1199
25	108.2800	5.5000	17990.2800	6290.4367	0.4130	0.1444
26	108.3425	5.5625	18251.6400	7422.9868	0.4190	0.1704
27	108.4050	5.6250	18513.0000	8571.8722	0.4250	0.1968
28	108.4675	5.6875	18774.3600	9737.0926	0.4310	0.2235
29	108.5300	5.7500	19035.7200	10918.6482	0.4370	0.2507
30	108.5925	5.8125	19297.0800	12116.5389	0.4430	0.2782
31	108.6550	5.8750	19558.4400	13330.7648	0.4490	0.3060
32	108.7175	5.9375	19819.8000	14561.3257	0.4550	0.3343
33	108.7800	6.0000	20081.1600	15808.2218	0.4610	0.3629

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| Variable storage data for node | CC-16
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	102.0000	0.0000	4.3560	0.0000	0.0001	0.0000
2	102.6225	0.6225	4.3560	2.7116	0.0001	0.0001
3	103.2450	1.2450	4.3560	5.4232	0.0001	0.0001
4	103.8675	1.8675	4.3560	8.1348	0.0001	0.0002
5	104.4900	2.4900	4.3560	10.8464	0.0001	0.0002
6	105.1125	3.1125	4.3560	13.5580	0.0001	0.0003
7	105.7350	3.7350	4.3560	16.2697	0.0001	0.0004
8	106.3575	4.3575	4.3560	18.9813	0.0001	0.0004
9	106.9800	4.9800	4.3560	21.6929	0.0001	0.0005
10	107.0425	5.0425	450.3015	32.0876	0.0103	0.0007
11	107.1050	5.1050	896.2470	73.3757	0.0206	0.0017
12	107.1675	5.1675	1342.1925	142.8595	0.0308	0.0033
13	107.2300	5.2300	1788.1380	240.3498	0.0411	0.0055
14	107.2925	5.2925	2234.0835	365.7859	0.0513	0.0084
15	107.3550	5.3550	2680.0290	519.1407	0.0615	0.0119
16	107.4175	5.4175	3125.9745	700.3997	0.0718	0.0161
17	107.4800	5.4800	3571.9200	909.5540	0.0820	0.0209
18	107.5425	5.5425	5374.2150	1187.2101	0.1234	0.0273
19	107.6050	5.6050	7176.5100	1578.0652	0.1648	0.0362
20	107.6675	5.6675	8978.8050	2081.8683	0.2061	0.0478
21	107.7300	5.7300	10781.1000	2698.5074	0.2475	0.0619
22	107.7925	5.7925	12583.3950	3427.9227	0.2889	0.0787
23	107.8550	5.8550	14385.6900	4270.0786	0.3302	0.0980
24	107.9175	5.9175	16187.9850	5224.9521	0.3716	0.1199
25	107.9800	5.9800	17990.2800	6292.5275	0.4130	0.1445
26	108.0425	6.0425	18251.6400	7425.0777	0.4190	0.1705
27	108.1050	6.1050	18513.0000	8573.9630	0.4250	0.1968
28	108.1675	6.1675	18774.3600	9739.1835	0.4310	0.2236
29	108.2300	6.2300	19035.7200	10920.7391	0.4370	0.2507
30	108.2925	6.2925	19297.0800	12118.6298	0.4430	0.2782
31	108.3550	6.3550	19558.4400	13332.8557	0.4490	0.3061
32	108.4175	6.4175	19819.8000	14563.4166	0.4550	0.3343
33	108.4800	6.4800	20081.1600	15810.3127	0.4610	0.3630
34	108.4800	6.4800	20081.1600	15810.3127	0.4610	0.3630

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| Variable storage data for node | CC-17
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	102.8500	0.0000	4.3560	0.0000	0.0001	0.0000

2	103.3438	0.4938	4.3560	2.1508	0.0001	0.0000
3	103.8375	0.9875	4.3560	4.3015	0.0001	0.0001
4	104.3312	1.4813	4.3560	6.4523	0.0001	0.0001
5	104.8250	1.9750	4.3560	8.6031	0.0001	0.0002
6	105.3187	2.4688	4.3560	10.7539	0.0001	0.0002
7	105.8125	2.9625	4.3560	12.9047	0.0001	0.0003
8	106.3062	3.4563	4.3560	15.0554	0.0001	0.0003
9	106.8000	3.9500	4.3560	17.2062	0.0001	0.0004
10	106.8625	4.0125	450.3015	27.6009	0.0103	0.0006
11	106.9250	4.0750	896.2470	68.8890	0.0206	0.0016
12	106.9875	4.1375	1342.1925	138.3729	0.0308	0.0032
13	107.0500	4.2000	1788.1380	235.8631	0.0411	0.0054
14	107.1125	4.2625	2234.0835	361.2992	0.0513	0.0083
15	107.1750	4.3250	2680.0290	514.6540	0.0615	0.0118
16	107.2375	4.3875	3125.9745	695.9130	0.0718	0.0160
17	107.3000	4.4500	3571.9200	905.0674	0.0820	0.0208
18	107.3625	4.5125	5374.2150	1182.7234	0.1234	0.0272
19	107.4250	4.5750	7176.5100	1573.5786	0.1648	0.0361
20	107.4875	4.6375	8978.8050	2077.3817	0.2061	0.0477
21	107.5500	4.7000	10781.1000	2694.0207	0.2475	0.0618
22	107.6125	4.7625	12583.3950	3423.4360	0.2889	0.0786
23	107.6750	4.8250	14385.6900	4265.5919	0.3302	0.0979
24	107.7375	4.8875	16187.9850	5220.4654	0.3716	0.1198
25	107.8000	4.9500	17990.2800	6288.0409	0.4130	0.1444
26	107.8625	5.0125	18251.6400	7420.5910	0.4190	0.1704
27	107.9250	5.0750	18513.0000	8569.4764	0.4250	0.1967
28	107.9875	5.1375	18774.3600	9734.6968	0.4310	0.2235
29	108.0500	5.2000	19035.7200	10916.2524	0.4370	0.2506
30	108.1125	5.2625	19297.0800	12114.1431	0.4430	0.2781
31	108.1750	5.3250	19558.4400	13328.3690	0.4490	0.3060
32	108.2375	5.3875	19819.8000	14558.9299	0.4550	0.3342
33	108.3000	5.4500	20081.1600	15805.8260	0.4610	0.3629
34	108.3000	5.4500	20081.1600	15805.8260	0.4610	0.3629

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| Variable storage data for node | CC-18
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	103.4300	0.0000	4.3560	0.0000	0.0001	0.0000
2	103.8050	0.3750	4.3560	1.6335	0.0001	0.0000
3	104.1800	0.7500	4.3560	3.2670	0.0001	0.0001
4	104.5550	1.1250	4.3560	4.9005	0.0001	0.0001
5	104.9300	1.5000	4.3560	6.5340	0.0001	0.0001
6	105.3050	1.8750	4.3560	8.1675	0.0001	0.0002
7	105.6800	2.2500	4.3560	9.8010	0.0001	0.0002
8	106.0550	2.6250	4.3560	11.4345	0.0001	0.0003
9	106.4300	3.0000	4.3560	13.0680	0.0001	0.0003
10	106.4925	3.0625	450.3015	23.4627	0.0103	0.0005
11	106.5550	3.1250	896.2470	64.7508	0.0206	0.0015
12	106.6175	3.1875	1342.1925	134.2347	0.0308	0.0031
13	106.6800	3.2500	1788.1380	231.7249	0.0411	0.0053
14	106.7425	3.3125	2234.0835	357.1610	0.0513	0.0082
15	106.8050	3.3750	2680.0290	510.5158	0.0615	0.0117
16	106.8675	3.4375	3125.9745	691.7748	0.0718	0.0159
17	106.9300	3.5000	3571.9200	900.9292	0.0820	0.0207
18	106.9925	3.5625	5374.2150	1178.5852	0.1234	0.0271
19	107.0550	3.6250	7176.5100	1569.4404	0.1648	0.0360
20	107.1175	3.6875	8978.8050	2073.2435	0.2061	0.0476
21	107.1800	3.7500	10781.1000	2689.8825	0.2475	0.0618
22	107.2425	3.8125	12583.3950	3419.2978	0.2889	0.0785
23	107.3050	3.8750	14385.6900	4261.4537	0.3302	0.0978
24	107.3675	3.9375	16187.9850	5216.3272	0.3716	0.1198
25	107.4300	4.0000	17990.2800	6283.9027	0.4130	0.1443
26	107.4925	4.0625	18251.6400	7416.4528	0.4190	0.1703
27	107.5550	4.1250	18513.0000	8565.3382	0.4250	0.1966
28	107.6175	4.1875	18774.3600	9730.5586	0.4310	0.2234
29	107.6800	4.2500	19035.7200	10912.1142	0.4370	0.2505
30	107.7425	4.3125	19297.0800	12110.0049	0.4430	0.2780
31	107.8050	4.3750	19558.4400	13324.2308	0.4490	0.3059
32	107.8675	4.4375	19819.8000	14554.7917	0.4550	0.3341
33	107.9300	4.5000	20081.1600	15801.6878	0.4610	0.3628

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| Variable storage data for node | CC-25
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	102.6000	0.0000	4.3560	0.0000	0.0001	0.0000
2	102.9750	0.3750	4.3560	1.6335	0.0001	0.0000
3	103.3500	0.7500	4.3560	3.2670	0.0001	0.0001
4	103.7250	1.1250	4.3560	4.9005	0.0001	0.0001
5	104.1000	1.5000	4.3560	6.5340	0.0001	0.0001
6	104.4750	1.8750	4.3560	8.1675	0.0001	0.0002
7	104.8500	2.2500	4.3560	9.8010	0.0001	0.0002
8	105.2250	2.6250	4.3560	11.4345	0.0001	0.0003
9	105.6000	3.0000	4.3560	13.0680	0.0001	0.0003
10	105.6625	3.0625	450.3015	23.4627	0.0103	0.0005
11	105.7250	3.1250	896.2470	64.7508	0.0206	0.0015
12	105.7875	3.1875	1342.1925	134.2347	0.0308	0.0031
13	105.8500	3.2500	1788.1380	231.7249	0.0411	0.0053
14	105.9125	3.3125	2234.0835	357.1610	0.0513	0.0082
15	105.9750	3.3750	2680.0290	510.5158	0.0615	0.0117
16	106.0375	3.4375	3125.9745	691.7748	0.0718	0.0159
17	106.1000	3.5000	3571.9200	900.9292	0.0820	0.0207
18	106.1625	3.5625	5374.2150	1178.5852	0.1234	0.0271
19	106.2250	3.6250	7176.5100	1569.4404	0.1648	0.0360
20	106.2875	3.6875	8978.8050	2073.2435	0.2061	0.0476
21	106.3500	3.7500	10781.1000	2689.8825	0.2475	0.0618
22	106.4125	3.8125	12583.3950	3419.2978	0.2889	0.0785
23	106.4750	3.8750	14385.6900	4261.4537	0.3302	0.0978
24	106.5375	3.9375	16187.9850	5216.3272	0.3716	0.1198
25	106.6000	4.0000	17990.2800	6283.9027	0.4130	0.1443
26	106.6625	4.0625	18251.6400	7416.4528	0.4190	0.1703
27	106.7250	4.1250	18513.0000	8565.3382	0.4250	0.1966
28	106.7875	4.1875	18774.3600	9730.5586	0.4310	0.2234
29	106.8500	4.2500	19035.7200	10912.1142	0.4370	0.2505
30	106.9125	4.3125	19297.0800	12110.0049	0.4430	0.2780
31	106.9750	4.3750	19558.4400	13324.2308	0.4490	0.3059
32	107.0375	4.4375	19819.8000	14554.7917	0.4550	0.3341
33	107.1000	4.5000	20081.1600	15801.6878	0.4610	0.3628

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| Variable storage data for node | CC-26
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	100.4900	0.0000	4.3560	0.0000	0.0001	0.0000
2	101.1150	0.6250	4.3560	2.7225	0.0001	0.0001
3	101.7400	1.2500	4.3560	5.4450	0.0001	0.0001
4	102.3650	1.8750	4.3560	8.1675	0.0001	0.0002
5	102.9900	2.5000	4.3560	10.8900	0.0001	0.0002
6	103.6150	3.1250	4.3560	13.6125	0.0001	0.0003
7	104.2400	3.7500	4.3560	16.3350	0.0001	0.0004
8	104.8650	4.3750	4.3560	19.0575	0.0001	0.0004

9	105.4900	5.0000	4.3560	21.7800	0.0001	0.0005
10	105.5525	5.0625	450.3015	32.1747	0.0103	0.0007
11	105.6150	5.1250	896.2470	73.4628	0.0206	0.0017
12	105.6775	5.1875	1342.1925	142.9467	0.0308	0.0033
13	105.7400	5.2500	1788.1380	240.4369	0.0411	0.0055
14	105.8025	5.3125	2234.0835	365.8730	0.0513	0.0084
15	105.8650	5.3750	2680.0290	519.2278	0.0615	0.0119
16	105.9275	5.4375	3125.9745	700.4868	0.0718	0.0161
17	105.9900	5.5000	3571.9200	909.6412	0.0820	0.0209
18	106.0525	5.5625	5374.2150	1187.2972	0.1234	0.0273
19	106.1150	5.6250	7176.5100	1578.1524	0.1648	0.0362
20	106.1775	5.6875	8978.8050	2081.9555	0.2061	0.0478
21	106.2400	5.7500	10781.1000	2698.5945	0.2475	0.0620
22	106.3025	5.8125	12583.3950	3428.0098	0.2889	0.0787
23	106.3650	5.8750	14385.6900	4270.1657	0.3302	0.0980
24	106.4275	5.9375	16187.9850	5225.0392	0.3716	0.1200
25	106.4900	6.0000	17990.2800	6292.6147	0.4130	0.1445
26	106.5525	6.0625	18251.6400	7425.1648	0.4190	0.1705
27	106.6150	6.1250	18513.0000	8574.0502	0.4250	0.1968
28	106.6775	6.1875	18774.3600	9739.2706	0.4310	0.2236
29	106.7400	6.2500	19035.7200	10920.8262	0.4370	0.2507
30	106.8025	6.3125	19297.0800	12118.7169	0.4430	0.2782
31	106.8650	6.3750	19558.4400	13332.9428	0.4490	0.3061
32	106.9275	6.4375	19819.8000	14563.5037	0.4550	0.3343
33	106.9900	6.5000	20081.1600	15810.3998	0.4610	0.3630

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| Variable storage data for node | CC-27
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	102.5900	0.0000	4.3560	0.0000	0.0001	0.0000
2	102.9650	0.3750	4.3560	1.6335	0.0001	0.0000
3	103.3400	0.7500	4.3560	3.2670	0.0001	0.0001
4	103.7150	1.1250	4.3560	4.9005	0.0001	0.0001
5	104.0900	1.5000	4.3560	6.5340	0.0001	0.0001
6	104.4650	1.8750	4.3560	8.1675	0.0001	0.0002
7	104.8400	2.2500	4.3560	9.8010	0.0001	0.0002
8	105.2150	2.6250	4.3560	11.4345	0.0001	0.0003
9	105.5900	3.0000	4.3560	13.0680	0.0001	0.0003
10	105.6525	3.0625	450.3015	23.4627	0.0103	0.0005
11	105.7150	3.1250	896.2470	64.7508	0.0206	0.0015
12	105.7775	3.1875	1342.1925	134.2347	0.0308	0.0031
13	105.8400	3.2500	1788.1380	231.7249	0.0411	0.0053
14	105.9025	3.3125	2234.0835	357.1610	0.0513	0.0082
15	105.9650	3.3750	2680.0290	510.5158	0.0615	0.0117
16	106.0275	3.4375	3125.9745	691.7748	0.0718	0.0159
17	106.0900	3.5000	3571.9200	900.9292	0.0820	0.0207
18	106.1525	3.5625	5374.2150	1178.5852	0.1234	0.0271
19	106.2150	3.6250	7176.5100	1569.4404	0.1648	0.0360
20	106.2775	3.6875	8978.8050	2073.2435	0.2061	0.0476
21	106.3400	3.7500	10781.1000	2689.8825	0.2475	0.0618
22	106.4025	3.8125	12583.3950	3419.2978	0.2889	0.0785
23	106.4650	3.8750	14385.6900	4261.4537	0.3302	0.0978
24	106.5275	3.9375	16187.9850	5216.3272	0.3716	0.1198
25	106.5900	4.0000	17990.2800	6283.9027	0.4130	0.1443
26	106.6525	4.0625	18251.6400	7416.4528	0.4190	0.1703
27	106.7150	4.1250	18513.0000	8565.3382	0.4250	0.1966
28	106.7775	4.1875	18774.3600	9730.5586	0.4310	0.2234
29	106.8400	4.2500	19035.7200	10912.1142	0.4370	0.2505
30	106.9025	4.3125	19297.0800	12110.0049	0.4430	0.2780
31	106.9650	4.3750	19558.4400	13324.2308	0.4490	0.3059
32	107.0275	4.4375	19819.8000	14554.7917	0.4550	0.3341
33	107.0900	4.5000	20081.1600	15801.6878	0.4610	0.3628

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| Variable storage data for node | CD-8
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	100.7600	0.0000	4.3560	0.0000	0.0001	0.0000
2	101.3225	0.5625	4.3560	2.4502	0.0001	0.0001
3	101.8850	1.1250	4.3560	4.9005	0.0001	0.0001
4	102.4475	1.6875	4.3560	7.3507	0.0001	0.0002
5	103.0100	2.2500	4.3560	9.8010	0.0001	0.0002
6	103.5725	2.8125	4.3560	12.2512	0.0001	0.0003
7	104.1350	3.3750	4.3560	14.7015	0.0001	0.0003
8	104.6975	3.9375	4.3560	17.1517	0.0001	0.0004
9	105.2600	4.5000	4.3560	19.6020	0.0001	0.0004
10	105.3225	4.5625	450.3015	29.9967	0.0103	0.0007
11	105.3850	4.6250	896.2470	71.2848	0.0206	0.0016
12	105.4475	4.6875	1342.1925	140.7687	0.0308	0.0032
13	105.5100	4.7500	1788.1380	238.2589	0.0411	0.0055
14	105.5725	4.8125	2234.0835	363.6950	0.0513	0.0083
15	105.6350	4.8750	2680.0290	517.0498	0.0615	0.0119
16	105.6975	4.9375	3125.9745	698.3088	0.0718	0.0160
17	105.7600	5.0000	3571.9200	907.4632	0.0820	0.0208
18	105.8225	5.0625	5374.2150	1185.1192	0.1234	0.0272
19	105.8850	5.1250	7176.5100	1575.9744	0.1648	0.0362
20	105.9475	5.1875	8978.8050	2079.7775	0.2061	0.0477
21	106.0100	5.2500	10781.1000	2696.4165	0.2475	0.0619
22	106.0725	5.3125	12583.3950	3425.8318	0.2889	0.0786
23	106.1350	5.3750	14385.6900	4267.9877	0.3302	0.0980
24	106.1975	5.4375	16187.9850	5222.8612	0.3716	0.1199
25	106.2600	5.5000	17990.2800	6290.4367	0.4130	0.1444
26	106.3225	5.5625	18251.6400	7422.9868	0.4190	0.1704
27	106.3850	5.6250	18513.0000	8571.8722	0.4250	0.1968
28	106.4475	5.6875	18774.3600	9737.0926	0.4310	0.2235
29	106.5100	5.7500	19035.7200	10918.6482	0.4370	0.2507
30	106.5725	5.8125	19297.0800	12116.5389	0.4430	0.2782
31	106.6350	5.8750	19558.4400	13330.7648	0.4490	0.3060
32	106.6975	5.9375	19819.8000	14561.3257	0.4550	0.3343
33	106.7600	6.0000	20081.1600	15808.2218	0.4610	0.3629

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| Variable storage data for node | CD-9
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	100.8500	0.0000	4.3560	0.0000	0.0001	0.0000
2	101.4125	0.5625	4.3560	2.4502	0.0001	0.0001
3	101.9750	1.1250	4.3560	4.9005	0.0001	0.0001
4	102.5375	1.6875	4.3560	7.3507	0.0001	0.0002
5	103.1000	2.2500	4.3560	9.8010	0.0001	0.0002
6	103.6625	2.8125	4.3560	12.2512	0.0001	0.0003
7	104.2250	3.3750	4.3560	14.7015	0.0001	0.0003
8	104.7875	3.9375	4.3560	17.1517	0.0001	0.0004
9	105.3500	4.5000	4.3560	19.6020	0.0001	0.0004
10	105.4125	4.5625	450.3015	29.9967	0.0103	0.0007
11	105.4750	4.6250	896.2470	71.2848	0.0206	0.0016
12	105.5375	4.6875	1342.1925	140.7687	0.0308	0.0032
13	105.6000	4.7500	1788.1380	238.2589	0.0411	0.0055
14	105.6625	4.8125	2234.0835	363.6950	0.0513	0.0083
15	105.7250	4.8750	2680.0290	517.0498	0.0615	0.0119
16	105.7875	4.9375	3125.9745	698.3088	0.0718	0.0160

17	105.8500	5.0000	3571.9200	907.4632	0.0820	0.0208
18	105.9125	5.0625	5374.2150	1185.1192	0.1234	0.0272
19	105.9750	5.1250	7176.5100	1575.9744	0.1648	0.0362
20	106.0375	5.1875	8978.8050	2079.7775	0.2061	0.0477
21	106.1000	5.2500	10781.1000	2696.4165	0.2475	0.0619
22	106.1625	5.3125	12583.3950	3425.8318	0.2889	0.0786
23	106.2250	5.3750	14385.6900	4267.9877	0.3302	0.0980
24	106.2875	5.4375	16187.9850	5222.8612	0.3716	0.1199
25	106.3500	5.5000	17990.2800	6290.4367	0.4130	0.1444
26	106.4125	5.5625	18251.6400	7422.9868	0.4190	0.1704
27	106.4750	5.6250	18513.0000	8571.8722	0.4250	0.1968
28	106.5375	5.6875	18774.3600	9737.0926	0.4310	0.2235
29	106.6000	5.7500	19035.7200	10918.6482	0.4370	0.2507
30	106.6625	5.8125	19297.0800	12116.5389	0.4430	0.2782
31	106.7250	5.8750	19558.4400	13330.7648	0.4490	0.3060
32	106.7875	5.9375	19819.8000	14561.3257	0.4550	0.3343
33	106.8500	6.0000	20081.1600	15808.2218	0.4610	0.3629

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| Variable storage data for node | CC-35
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	102.5300	0.0000	4.3560	0.0000	0.0001	0.0000
2	102.9050	0.3750	4.3560	1.6335	0.0001	0.0000
3	103.2800	0.7500	4.3560	3.2670	0.0001	0.0001
4	103.6550	1.1250	4.3560	4.9005	0.0001	0.0001
5	104.0300	1.5000	4.3560	6.5340	0.0001	0.0001
6	104.4050	1.8750	4.3560	8.1675	0.0001	0.0002
7	104.7800	2.2500	4.3560	9.8010	0.0001	0.0002
8	105.1550	2.6250	4.3560	11.4345	0.0001	0.0003
9	105.5300	3.0000	4.3560	13.0680	0.0001	0.0003
10	105.5925	3.0625	450.3015	23.4627	0.0103	0.0005
11	105.6550	3.1250	896.2470	64.7508	0.0206	0.0015
12	105.7175	3.1875	1342.1925	134.2347	0.0308	0.0031
13	105.7800	3.2500	1788.1380	231.7249	0.0411	0.0053
14	105.8425	3.3125	2234.0835	357.1610	0.0513	0.0082
15	105.9050	3.3750	2680.0290	510.5158	0.0615	0.0117
16	105.9675	3.4375	3125.9745	691.7748	0.0718	0.0159
17	106.0300	3.5000	3571.9200	900.9292	0.0820	0.0207
18	106.0925	3.5625	5374.2150	1178.5852	0.1234	0.0271
19	106.1550	3.6250	7176.5100	1569.4404	0.1648	0.0360
20	106.2175	3.6875	8978.8050	2073.2435	0.2061	0.0476
21	106.2800	3.7500	10781.1000	2689.8825	0.2475	0.0618
22	106.3425	3.8125	12583.3950	3419.2978	0.2889	0.0785
23	106.4050	3.8750	14385.6900	4261.4537	0.3302	0.0978
24	106.4675	3.9375	16187.9850	5216.3272	0.3716	0.1198
25	106.5300	4.0000	17990.2800	6283.9027	0.4130	0.1443
26	106.5925	4.0625	18251.6400	7416.4528	0.4190	0.1703
27	106.6550	4.1250	18513.0000	8565.3382	0.4250	0.1966
28	106.7175	4.1875	18774.3600	9730.5586	0.4310	0.2234
29	106.7800	4.2500	19035.7200	10912.1142	0.4370	0.2505
30	106.8425	4.3125	19297.0800	12110.0049	0.4430	0.2780
31	106.9050	4.3750	19558.4400	13324.2308	0.4490	0.3059
32	106.9675	4.4375	19819.8000	14554.7917	0.4550	0.3341
33	107.0300	4.5000	20081.1600	15801.6878	0.4610	0.3628

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| Variable storage data for node | CC-36
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	100.8200	0.0000	4.3560	0.0000	0.0001	0.0000
2	101.3825	0.5625	4.3560	2.4502	0.0001	0.0001
3	101.9450	1.1250	4.3560	4.9005	0.0001	0.0001
4	102.5075	1.6875	4.3560	7.3507	0.0001	0.0002
5	103.0700	2.2500	4.3560	9.8010	0.0001	0.0002
6	103.6325	2.8125	4.3560	12.2512	0.0001	0.0003
7	104.1950	3.3750	4.3560	14.7015	0.0001	0.0003
8	104.7575	3.9375	4.3560	17.1517	0.0001	0.0004
9	105.3200	4.5000	4.3560	19.6020	0.0001	0.0004
10	105.3825	4.5625	450.3015	29.9967	0.0103	0.0007
11	105.4450	4.6250	896.2470	71.2848	0.0206	0.0016
12	105.5075	4.6875	1342.1925	140.7687	0.0308	0.0032
13	105.5700	4.7500	1788.1380	238.2589	0.0411	0.0055
14	105.6325	4.8125	2234.0835	363.6950	0.0513	0.0083
15	105.6950	4.8750	2680.0290	517.0498	0.0615	0.0119
16	105.7575	4.9375	3125.9745	698.3088	0.0718	0.0160
17	105.8200	5.0000	3571.9200	907.4632	0.0820	0.0208
18	105.8825	5.0625	5374.2150	1185.1192	0.1234	0.0272
19	105.9450	5.1250	7176.5100	1575.9744	0.1648	0.0362
20	106.0075	5.1875	8978.8050	2079.7775	0.2061	0.0477
21	106.0700	5.2500	10781.1000	2696.4165	0.2475	0.0619
22	106.1325	5.3125	12583.3950	3425.8318	0.2889	0.0786
23	106.1950	5.3750	14385.6900	4267.9877	0.3302	0.0980
24	106.2575	5.4375	16187.9850	5222.8612	0.3716	0.1199
25	106.3200	5.5000	17990.2800	6290.4367	0.4130	0.1444
26	106.3825	5.5625	18251.6400	7422.9868	0.4190	0.1704
27	106.4450	5.6250	18513.0000	8571.8722	0.4250	0.1968
28	106.5075	5.6875	18774.3600	9737.0926	0.4310	0.2235
29	106.5700	5.7500	19035.7200	10918.6482	0.4370	0.2507
30	106.6325	5.8125	19297.0800	12116.5389	0.4430	0.2782
31	106.6950	5.8750	19558.4400	13330.7648	0.4490	0.3060
32	106.7575	5.9375	19819.8000	14561.3257	0.4550	0.3343
33	106.8200	6.0000	20081.1600	15808.2218	0.4610	0.3629

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| Variable storage data for node | CC-37
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	102.4200	0.0000	4.3560	0.0000	0.0001	0.0000
2	102.7950	0.3750	4.3560	1.6335	0.0001	0.0000
3	103.1700	0.7500	4.3560	3.2670	0.0001	0.0001
4	103.5450	1.1250	4.3560	4.9005	0.0001	0.0001
5	103.9200	1.5000	4.3560	6.5340	0.0001	0.0001
6	104.2950	1.8750	4.3560	8.1675	0.0001	0.0002
7	104.6700	2.2500	4.3560	9.8010	0.0001	0.0002
8	105.0450	2.6250	4.3560	11.4345	0.0001	0.0003
9	105.4200	3.0000	4.3560	13.0680	0.0001	0.0003
10	105.4825	3.0625	450.3015	23.4627	0.0103	0.0005
11	105.5450	3.1250	896.2470	64.7508	0.0206	0.0015
12	105.6075	3.1875	1342.1925	134.2347	0.0308	0.0031
13	105.6700	3.2500	1788.1380	231.7249	0.0411	0.0053
14	105.7325	3.3125	2234.0835	357.1610	0.0513	0.0082
15	105.7950	3.3750	2680.0290	510.5158	0.0615	0.0117
16	105.8575	3.4375	3125.9745	691.7748	0.0718	0.0159
17	105.9200	3.5000	3571.9200	900.9292	0.0820	0.0207
18	105.9825	3.5625	5374.2150	1178.5852	0.1234	0.0271
19	106.0450	3.6250	7176.5100	1569.4404	0.1648	0.0360
20	106.1075	3.6875	8978.8050	2073.2435	0.2061	0.0476
21	106.1700	3.7500	10781.1000	2689.8825	0.2475	0.0618
22	106.2325	3.8125	12583.3950	3419.2978	0.2889	0.0785
23	106.2950	3.8750	14385.6900	4261.4537	0.3302	0.0978
24	106.3575	3.9375	16187.9850	5216.3272	0.3716	0.1198

25	106.4200	4.0000	17990.2800	6283.9027	0.4130	0.1443
26	106.4825	4.0625	18251.6400	7416.4528	0.4190	0.1703
27	106.5450	4.1250	18513.0000	8565.3382	0.4250	0.1966
28	106.6075	4.1875	18774.3600	9730.5586	0.4310	0.2234
29	106.6700	4.2500	19035.7200	10912.1142	0.4370	0.2505
30	106.7325	4.3125	19297.0800	12110.0049	0.4430	0.2780
31	106.7950	4.3750	19558.4400	13324.2308	0.4490	0.3059
32	106.8575	4.4375	19819.8000	14554.7917	0.4550	0.3341
33	106.9200	4.5000	20081.1600	15801.6878	0.4610	0.3628

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| Variable storage data for node | CD-10
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	100.7000	0.0000	4.3560	0.0000	0.0001	0.0000
2	101.2625	0.5625	4.3560	2.4502	0.0001	0.0001
3	101.8250	1.1250	4.3560	4.9005	0.0001	0.0001
4	102.3875	1.6875	4.3560	7.3507	0.0001	0.0002
5	102.9500	2.2500	4.3560	9.8010	0.0001	0.0002
6	103.5125	2.8125	4.3560	12.2512	0.0001	0.0003
7	104.0750	3.3750	4.3560	14.7015	0.0001	0.0003
8	104.6375	3.9375	4.3560	17.1517	0.0001	0.0004
9	105.2000	4.5000	4.3560	19.6020	0.0001	0.0004
10	105.2625	4.5625	450.3015	29.9967	0.0103	0.0007
11	105.3250	4.6250	896.2470	71.2848	0.0206	0.0016
12	105.3875	4.6875	1342.1925	140.7687	0.0308	0.0032
13	105.4500	4.7500	1788.1380	238.2589	0.0411	0.0055
14	105.5125	4.8125	2234.0835	363.6950	0.0513	0.0083
15	105.5750	4.8750	2680.0290	517.0498	0.0615	0.0119
16	105.6375	4.9375	3125.9745	698.3088	0.0718	0.0160
17	105.7000	5.0000	3571.9200	907.4632	0.0820	0.0208
18	105.7625	5.0625	5374.2150	1185.1192	0.1234	0.0272
19	105.8250	5.1250	7176.5100	1575.9744	0.1648	0.0362
20	105.8875	5.1875	8978.8050	2079.7775	0.2061	0.0477
21	105.9500	5.2500	10781.1000	2696.4165	0.2475	0.0619
22	106.0125	5.3125	12583.3950	3425.8318	0.2889	0.0786
23	106.0750	5.3750	14385.6900	4267.9877	0.3302	0.0980
24	106.1375	5.4375	16187.9850	5222.8612	0.3716	0.1199
25	106.2000	5.5000	17990.2800	6290.4367	0.4130	0.1444
26	106.2625	5.5625	18251.6400	7422.9868	0.4190	0.1704
27	106.3250	5.6250	18513.0000	8571.8722	0.4250	0.1968
28	106.3875	5.6875	18774.3600	9737.0926	0.4310	0.2235
29	106.4500	5.7500	19035.7200	10918.6482	0.4370	0.2507
30	106.5125	5.8125	19297.0800	12116.5389	0.4430	0.2782
31	106.5750	5.8750	19558.4400	13330.7648	0.4490	0.3060
32	106.6375	5.9375	19819.8000	14561.3257	0.4550	0.3343
33	106.7000	6.0000	20081.1600	15808.2218	0.4610	0.3629

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| Variable storage data for node | CD-11
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	100.3700	0.0000	4.3560	0.0000	0.0001	0.0000
2	100.9325	0.5625	4.3560	2.4502	0.0001	0.0001
3	101.4950	1.1250	4.3560	4.9005	0.0001	0.0001
4	102.0575	1.6875	4.3560	7.3507	0.0001	0.0002
5	102.6200	2.2500	4.3560	9.8010	0.0001	0.0002
6	103.1825	2.8125	4.3560	12.2512	0.0001	0.0003
7	103.7450	3.3750	4.3560	14.7015	0.0001	0.0003
8	104.3075	3.9375	4.3560	17.1517	0.0001	0.0004
9	104.8700	4.5000	4.3560	19.6020	0.0001	0.0004
10	104.9325	4.5625	450.3015	29.9967	0.0103	0.0007
11	104.9950	4.6250	896.2470	71.2848	0.0206	0.0016
12	105.0575	4.6875	1342.1925	140.7687	0.0308	0.0032
13	105.1200	4.7500	1788.1380	238.2589	0.0411	0.0055
14	105.1825	4.8125	2234.0835	363.6950	0.0513	0.0083
15	105.2450	4.8750	2680.0290	517.0498	0.0615	0.0119
16	105.3075	4.9375	3125.9745	698.3088	0.0718	0.0160
17	105.3700	5.0000	3571.9200	907.4632	0.0820	0.0208
18	105.4325	5.0625	5374.2150	1185.1192	0.1234	0.0272
19	105.4950	5.1250	7176.5100	1575.9744	0.1648	0.0362
20	105.5575	5.1875	8978.8050	2079.7775	0.2061	0.0477
21	105.6200	5.2500	10781.1000	2696.4165	0.2475	0.0619
22	105.6825	5.3125	12583.3950	3425.8318	0.2889	0.0786
23	105.7450	5.3750	14385.6900	4267.9877	0.3302	0.0980
24	105.8075	5.4375	16187.9850	5222.8612	0.3716	0.1199
25	105.8700	5.5000	17990.2800	6290.4367	0.4130	0.1444
26	105.9325	5.5625	18251.6400	7422.9868	0.4190	0.1704
27	105.9950	5.6250	18513.0000	8571.8722	0.4250	0.1968
28	106.0575	5.6875	18774.3600	9737.0926	0.4310	0.2235
29	106.1200	5.7500	19035.7200	10918.6482	0.4370	0.2507
30	106.1825	5.8125	19297.0800	12116.5389	0.4430	0.2782
31	106.2450	5.8750	19558.4400	13330.7648	0.4490	0.3060
32	106.3075	5.9375	19819.8000	14561.3257	0.4550	0.3343
33	106.3700	6.0000	20081.1600	15808.2218	0.4610	0.3629

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| Variable storage data for node | CC-46
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	101.1500	0.0000	4.3560	0.0000	0.0001	0.0000
2	101.6500	0.5000	4.3560	2.1780	0.0001	0.0000
3	102.1500	1.0000	4.3560	4.3560	0.0001	0.0001
4	102.6500	1.5000	4.3560	6.5340	0.0001	0.0001
5	103.1500	2.0000	4.3560	8.7120	0.0001	0.0002
6	103.6500	2.5000	4.3560	10.8900	0.0001	0.0002
7	104.1500	3.0000	4.3560	13.0680	0.0001	0.0003
8	104.6500	3.5000	4.3560	15.2460	0.0001	0.0003
9	105.1500	4.0000	4.3560	17.4240	0.0001	0.0004
10	105.2125	4.0625	450.3015	27.8187	0.0103	0.0006
11	105.2750	4.1250	896.2470	69.1068	0.0206	0.0016
12	105.3375	4.1875	1342.1925	138.5907	0.0308	0.0032
13	105.4000	4.2500	1788.1380	236.0809	0.0411	0.0054
14	105.4625	4.3125	2234.0835	361.5170	0.0513	0.0083
15	105.5250	4.3750	2680.0290	514.8718	0.0615	0.0118
16	105.5875	4.4375	3125.9745	696.1308	0.0718	0.0160
17	105.6500	4.5000	3571.9200	905.2852	0.0820	0.0208
18	105.7125	4.5625	5374.2150	1182.9412	0.1234	0.0272
19	105.7750	4.6250	7176.5100	1573.7964	0.1648	0.0361
20	105.8375	4.6875	8978.8050	2077.5995	0.2061	0.0477
21	105.9000	4.7500	10781.1000	2694.2385	0.2475	0.0619
22	105.9625	4.8125	12583.3950	3423.6538	0.2889	0.0786
23	106.0250	4.8750	14385.6900	4265.8097	0.3302	0.0979
24	106.0875	4.9375	16187.9850	5220.6832	0.3716	0.1199
25	106.1500	5.0000	17990.2800	6288.2587	0.4130	0.1444
26	106.2125	5.0625	18251.6400	7420.8088	0.4190	0.1704
27	106.2750	5.1250	18513.0000	8569.6942	0.4250	0.1967
28	106.3375	5.1875	18774.3600	9734.9146	0.4310	0.2235
29	106.4000	5.2500	19035.7200	10916.4702	0.4370	0.2506
30	106.4625	5.3125	19297.0800	12114.3609	0.4430	0.2781
31	106.5250	5.3750	19558.4400	13328.5868	0.4490	0.3060
32	106.5875	5.4375	19819.8000	14559.1477	0.4550	0.3342

33	106.6500	5.5000	20081.1600	15806.0438	0.4610	0.3629

Variable storage data for node | CC-45						
Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	101.0400	0.0000	4.3560	0.0000	0.0001	0.0000
2	101.5225	0.4825	4.3560	2.1018	0.0001	0.0000
3	102.0050	0.9650	4.3560	4.2035	0.0001	0.0001
4	102.4875	1.4475	4.3560	6.3053	0.0001	0.0001
5	102.9700	1.9300	4.3560	8.4071	0.0001	0.0002
6	103.4525	2.4125	4.3560	10.5088	0.0001	0.0002
7	103.9350	2.8950	4.3560	12.6106	0.0001	0.0003
8	104.4175	3.3775	4.3560	14.7124	0.0001	0.0003
9	104.9000	3.8600	4.3560	16.8142	0.0001	0.0004
10	104.9625	3.9225	450.3015	27.2089	0.0103	0.0006
11	105.0250	3.9850	896.2470	68.4970	0.0206	0.0016
12	105.0875	4.0475	1342.1925	137.9808	0.0308	0.0032
13	105.1500	4.1100	1788.1380	235.4711	0.0411	0.0054
14	105.2125	4.1725	2234.0835	360.9072	0.0513	0.0083
15	105.2750	4.2350	2680.0290	514.2620	0.0615	0.0118
16	105.3375	4.2975	3125.9745	695.5209	0.0718	0.0160
17	105.4000	4.3600	3571.9200	904.6753	0.0820	0.0208
18	105.4625	4.4225	5374.2150	1182.3314	0.1234	0.0271
19	105.5250	4.4850	7176.5100	1573.1865	0.1648	0.0361
20	105.5875	4.5475	8978.8050	2076.9896	0.2061	0.0477
21	105.6500	4.6100	10781.1000	2693.6287	0.2475	0.0618
22	105.7125	4.6725	12583.3950	3423.0440	0.2889	0.0786
23	105.7750	4.7350	14385.6900	4265.1999	0.3302	0.0979
24	105.8375	4.7975	16187.9850	5220.0734	0.3716	0.1198
25	105.9000	4.8600	17990.2800	6287.6488	0.4130	0.1443
26	105.9625	4.9225	18251.6400	7420.1990	0.4190	0.1703
27	106.0250	4.9850	18513.0000	8569.0843	0.4250	0.1967
28	106.0875	5.0475	18774.3600	9734.3048	0.4310	0.2235
29	106.1500	5.1100	19035.7200	10915.8604	0.4370	0.2506
30	106.2125	5.1725	19297.0800	12113.7511	0.4430	0.2781
31	106.2750	5.2350	19558.4400	13327.9769	0.4490	0.3060
32	106.3375	5.2975	19819.8000	14558.5379	0.4550	0.3342
33	106.4000	5.3600	20081.1600	15805.4340	0.4610	0.3628

Variable storage data for node | CC-57						
Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	100.8000	0.0000	4.3560	0.0000	0.0001	0.0000
2	101.2500	0.4500	4.3560	1.9602	0.0001	0.0000
3	101.7000	0.9000	4.3560	3.9204	0.0001	0.0001
4	102.1500	1.3500	4.3560	5.8806	0.0001	0.0001
5	102.6000	1.8000	4.3560	7.8408	0.0001	0.0002
6	103.0500	2.2500	4.3560	9.8010	0.0001	0.0002
7	103.5000	2.7000	4.3560	11.7612	0.0001	0.0003
8	103.9500	3.1500	4.3560	13.7214	0.0001	0.0003
9	104.4000	3.6000	4.3560	15.6816	0.0001	0.0004
10	104.4625	3.6625	450.3015	26.0763	0.0103	0.0006
11	104.5250	3.7250	896.2470	67.3644	0.0206	0.0015
12	104.5875	3.7875	1342.1925	136.8483	0.0308	0.0031
13	104.6500	3.8500	1788.1380	234.3385	0.0411	0.0054
14	104.7125	3.9125	2234.0835	359.7746	0.0513	0.0083
15	104.7750	3.9750	2680.0290	513.1294	0.0615	0.0118
16	104.8375	4.0375	3125.9745	694.3884	0.0718	0.0159
17	104.9000	4.1000	3571.9200	903.5428	0.0820	0.0207
18	104.9625	4.1625	5374.2150	1181.1988	0.1234	0.0271
19	105.0250	4.2250	7176.5100	1572.0540	0.1648	0.0361
20	105.0875	4.2875	8978.8050	2075.8571	0.2061	0.0477
21	105.1500	4.3500	10781.1000	2692.4961	0.2475	0.0618
22	105.2125	4.4125	12583.3950	3421.9114	0.2889	0.0786
23	105.2750	4.4750	14385.6900	4264.0673	0.3302	0.0979
24	105.3375	4.5375	16187.9850	5218.9408	0.3716	0.1198
25	105.4000	4.6000	17990.2800	6286.5163	0.4130	0.1443
26	105.4625	4.6625	18251.6400	7419.0664	0.4190	0.1703
27	105.5250	4.7250	18513.0000	8567.9518	0.4250	0.1967
28	105.5875	4.7875	18774.3600	9733.1722	0.4310	0.2234
29	105.6500	4.8500	19035.7200	10914.7278	0.4370	0.2506
30	105.7125	4.9125	19297.0800	12112.6185	0.4430	0.2781
31	105.7750	4.9750	19558.4400	13326.8444	0.4490	0.3059
32	105.8375	5.0375	19819.8000	14557.4053	0.4550	0.3342
33	105.9000	5.1000	20081.1600	15804.3014	0.4610	0.3628
34	105.9000	5.1000	20081.1600	15804.3014	0.4610	0.3628

Variable storage data for node | CC-42						
Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	101.8700	0.0000	4.3560	0.0000	0.0001	0.0000
2	102.1950	0.3250	4.3560	1.4157	0.0001	0.0000
3	102.5200	0.6500	4.3560	2.8314	0.0001	0.0001
4	102.8450	0.9750	4.3560	4.2471	0.0001	0.0001
5	103.1700	1.3000	4.3560	5.6628	0.0001	0.0001
6	103.4950	1.6250	4.3560	7.0785	0.0001	0.0002
7	103.8200	1.9500	4.3560	8.4942	0.0001	0.0002
8	104.1450	2.2750	4.3560	9.9099	0.0001	0.0002
9	104.4700	2.6000	4.3560	11.3256	0.0001	0.0003
10	104.5325	2.6625	450.3015	21.7203	0.0103	0.0005
11	104.5950	2.7250	896.2470	63.0084	0.0206	0.0014
12	104.6575	2.7875	1342.1925	132.4923	0.0308	0.0030
13	104.7200	2.8500	1788.1380	229.9825	0.0411	0.0053
14	104.7825	2.9125	2234.0835	355.4186	0.0513	0.0082
15	104.8450	2.9750	2680.0290	508.7734	0.0615	0.0117
16	104.9075	3.0375	3125.9745	690.0324	0.0718	0.0158
17	104.9700	3.1000	3571.9200	899.1868	0.0820	0.0206
18	105.0325	3.1625	5374.2150	1176.8428	0.1234	0.0270
19	105.0950	3.2250	7176.5100	1567.6980	0.1648	0.0360
20	105.1575	3.2875	8978.8050	2071.5011	0.2061	0.0476
21	105.2200	3.3500	10781.1000	2688.1401	0.2475	0.0617
22	105.2825	3.4125	12583.3950	3417.5554	0.2889	0.0785
23	105.3450	3.4750	14385.6900	4259.7113	0.3302	0.0978
24	105.4075	3.5375	16187.9850	5214.5848	0.3716	0.1197
25	105.4700	3.6000	17990.2800	6282.1603	0.4130	0.1442
26	105.5325	3.6625	18251.6400	7414.7104	0.4190	0.1702
27	105.5950	3.7250	18513.0000	8563.5958	0.4250	0.1966
28	105.6575	3.7875	18774.3600	9728.8162	0.4310	0.2233
29	105.7200	3.8500	19035.7200	10910.3718	0.4370	0.2505
30	105.7825	3.9125	19297.0800	12108.2625	0.4430	0.2780
31	105.8450	3.9750	19558.4400	13322.4884	0.4490	0.3058
32	105.9075	4.0375	19819.8000	14553.0493	0.4550	0.3341
33	105.9700	4.1000	20081.1600	15799.9454	0.4610	0.3627

Variable storage data for node | CD-12						
Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft

1	99.2600	0.0000	4.3560	0.0000	0.0001	0.0000
2	99.8950	0.6350	4.3560	2.7661	0.0001	0.0001
3	100.5300	1.2700	4.3560	5.5321	0.0001	0.0001
4	101.1650	1.9050	4.3560	8.2982	0.0001	0.0002
5	101.8000	2.5400	4.3560	11.0642	0.0001	0.0003
6	102.4350	3.1750	4.3560	13.8303	0.0001	0.0003
7	103.0700	3.8100	4.3560	16.5964	0.0001	0.0004
8	103.7050	4.4450	4.3560	19.3624	0.0001	0.0004
9	104.3400	5.0800	4.3560	22.1285	0.0001	0.0005
10	104.4025	5.1425	450.3015	32.5232	0.0103	0.0007
11	104.4650	5.2050	896.2470	73.8113	0.0206	0.0017
12	104.5275	5.2675	1342.1925	143.2951	0.0308	0.0033
13	104.5900	5.3300	1788.1380	240.7854	0.0411	0.0055
14	104.6525	5.3925	2234.0835	366.2215	0.0513	0.0084
15	104.7150	5.4550	2680.0290	519.5763	0.0615	0.0119
16	104.7775	5.5175	3125.9745	700.8353	0.0718	0.0161
17	104.8400	5.5800	3571.9200	909.9896	0.0820	0.0209
18	104.9025	5.6425	5374.2150	1187.6457	0.1234	0.0273
19	104.9650	5.7050	7176.5100	1578.5008	0.1648	0.0362
20	105.0275	5.7675	8978.8050	2082.3039	0.2061	0.0478
21	105.0900	5.8300	10781.1000	2698.9430	0.2475	0.0620
22	105.1525	5.8925	12583.3950	3428.3583	0.2889	0.0787
23	105.2150	5.9550	14385.6900	4270.5142	0.3302	0.0980
24	105.2775	6.0175	16187.9850	5225.3877	0.3716	0.1200
25	105.3400	6.0800	17990.2800	6292.9631	0.4130	0.1445
26	105.4025	6.1425	18251.6400	7425.5133	0.4190	0.1705
27	105.4650	6.2050	18513.0000	8574.3986	0.4250	0.1968
28	105.5275	6.2675	18774.3600	9739.6191	0.4310	0.2236
29	105.5900	6.3300	19035.7200	10921.1747	0.4370	0.2507
30	105.6525	6.3925	19297.0800	12119.0654	0.4430	0.2782
31	105.7150	6.4550	19558.4400	13333.2913	0.4490	0.3061
32	105.7775	6.5175	19819.8000	14563.8522	0.4550	0.3343
33	105.8400	6.5800	20081.1600	15810.7483	0.4610	0.3630

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| Variable storage data for node | CD-13
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	100.4000	0.0000	4.3560	0.0000	0.0001	0.0000
2	100.8925	0.4925	4.3560	2.1453	0.0001	0.0000
3	101.3850	0.9850	4.3560	4.2907	0.0001	0.0001
4	101.8775	1.4775	4.3560	6.4360	0.0001	0.0001
5	102.3700	1.9700	4.3560	8.5813	0.0001	0.0002
6	102.8625	2.4625	4.3560	10.7266	0.0001	0.0002
7	103.3550	2.9550	4.3560	12.8720	0.0001	0.0003
8	103.8475	3.4475	4.3560	15.0173	0.0001	0.0003
9	104.3400	3.9400	4.3560	17.1626	0.0001	0.0004
10	104.4025	4.0025	450.3015	27.5574	0.0103	0.0006
11	104.4650	4.0650	896.2470	68.8455	0.0206	0.0016
12	104.5275	4.1275	1342.1925	138.3293	0.0308	0.0032
13	104.5900	4.1900	1788.1380	235.8195	0.0411	0.0054
14	104.6525	4.2525	2234.0835	361.2557	0.0513	0.0083
15	104.7150	4.3150	2680.0290	514.6105	0.0615	0.0118
16	104.7775	4.3775	3125.9745	695.8694	0.0718	0.0160
17	104.8400	4.4400	3571.9200	905.0238	0.0820	0.0208
18	104.9025	4.5025	5374.2150	1182.6798	0.1234	0.0272
19	104.9650	4.5650	7176.5100	1573.5350	0.1648	0.0361
20	105.0275	4.6275	8978.8050	2077.3381	0.2061	0.0477
21	105.0900	4.6900	10781.1000	2693.9772	0.2475	0.0618
22	105.1525	4.7525	12583.3950	3423.3925	0.2889	0.0786
23	105.2150	4.8150	14385.6900	4265.5483	0.3302	0.0979
24	105.2775	4.8775	16187.9850	5220.4219	0.3716	0.1198
25	105.3400	4.9400	17990.2800	6287.9973	0.4130	0.1444
26	105.4025	5.0025	18251.6400	7420.5475	0.4190	0.1704
27	105.4650	5.0650	18513.0000	8569.4328	0.4250	0.1967
28	105.5275	5.1275	18774.3600	9734.6533	0.4310	0.2235
29	105.5900	5.1900	19035.7200	10916.2088	0.4370	0.2506
30	105.6525	5.2525	19297.0800	12114.0996	0.4430	0.2781
31	105.7150	5.3150	19558.4400	13328.3254	0.4490	0.3060
32	105.7775	5.3775	19819.8000	14558.8864	0.4550	0.3342
33	105.8400	5.4400	20081.1600	15805.7825	0.4610	0.3629

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| Variable storage data for node | CD-23
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	96.8100	0.0000	4.3560	0.0000	0.0001	0.0000
2	97.3725	0.5625	4.3560	2.4502	0.0001	0.0001
3	97.9350	1.1250	4.3560	4.9005	0.0001	0.0001
4	98.4975	1.6875	4.3560	7.3507	0.0001	0.0002
5	99.0600	2.2500	4.3560	9.8010	0.0001	0.0002
6	99.6225	2.8125	4.3560	12.2512	0.0001	0.0003
7	100.1850	3.3750	4.3560	14.7015	0.0001	0.0003
8	100.7475	3.9375	4.3560	17.1517	0.0001	0.0004
9	101.3100	4.5000	4.3560	19.6020	0.0001	0.0004
10	101.3725	4.5625	450.3015	29.9967	0.0103	0.0007
11	101.4350	4.6250	896.2470	71.2848	0.0206	0.0016
12	101.4975	4.6875	1342.1925	140.7687	0.0308	0.0032
13	101.5600	4.7500	1788.1380	238.2589	0.0411	0.0055
14	101.6225	4.8125	2234.0835	363.6950	0.0513	0.0083
15	101.6850	4.8750	2680.0290	517.0498	0.0615	0.0119
16	101.7475	4.9375	3125.9745	698.3088	0.0718	0.0160
17	101.8100	5.0000	3571.9200	907.4632	0.0820	0.0208
18	101.8725	5.0625	5374.2150	1185.1192	0.1234	0.0272
19	101.9350	5.1250	7176.5100	1575.9744	0.1648	0.0362
20	101.9975	5.1875	8978.8050	2079.7775	0.2061	0.0477
21	102.0600	5.2500	10781.1000	2696.4165	0.2475	0.0619
22	102.1225	5.3125	12583.3950	3425.8318	0.2889	0.0786
23	102.1850	5.3750	14385.6900	4267.9877	0.3302	0.0980
24	102.2475	5.4375	16187.9850	5222.8612	0.3716	0.1199
25	102.3100	5.5000	17990.2800	6290.4367	0.4130	0.1444
26	102.3725	5.5625	18251.6400	7422.9868	0.4190	0.1704
27	102.4350	5.6250	18513.0000	8571.8722	0.4250	0.1968
28	102.4975	5.6875	18774.3600	9737.0926	0.4310	0.2235
29	102.5600	5.7500	19035.7200	10918.6482	0.4370	0.2507
30	102.6225	5.8125	19297.0800	12116.5389	0.4430	0.2782
31	102.6850	5.8750	19558.4400	13330.7648	0.4490	0.3060
32	102.7475	5.9375	19819.8000	14561.3257	0.4550	0.3343
33	102.8100	6.0000	20081.1600	15808.2218	0.4610	0.3629

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| Variable storage data for node | CD-29
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	96.2400	0.0000	4.3560	0.0000	0.0001	0.0000
2	96.8025	0.5625	4.3560	2.4502	0.0001	0.0001
3	97.3650	1.1250	4.3560	4.9005	0.0001	0.0001
4	97.9275	1.6875	4.3560	7.3507	0.0001	0.0002
5	98.4900	2.2500	4.3560	9.8010	0.0001	0.0002
6	99.0525	2.8125	4.3560	12.2512	0.0001	0.0003
7	99.6150	3.3750	4.3560	14.7015	0.0001	0.0003

8	100.1775	3.9375	4.3560	17.1517	0.0001	0.0004
9	100.7400	4.5000	4.3560	19.6020	0.0001	0.0004
10	100.8025	4.5625	450.3015	29.9967	0.0103	0.0007
11	100.8650	4.6250	896.2470	71.2848	0.0206	0.0016
12	100.9275	4.6875	1342.1925	140.7687	0.0308	0.0032
13	100.9900	4.7500	1788.1380	238.2589	0.0411	0.0055
14	101.0525	4.8125	2234.0835	363.6950	0.0513	0.0083
15	101.1150	4.8750	2680.0290	517.0498	0.0615	0.0119
16	101.1775	4.9375	3125.9745	698.3088	0.0718	0.0160
17	101.2400	5.0000	3571.9200	907.4632	0.0820	0.0208
18	101.3025	5.0625	5374.2150	1185.1192	0.1234	0.0272
19	101.3650	5.1250	7176.5100	1575.9744	0.1648	0.0362
20	101.4275	5.1875	8978.8050	2079.7775	0.2061	0.0477
21	101.4900	5.2500	10781.1000	2696.4165	0.2475	0.0619
22	101.5525	5.3125	12583.3950	3425.8318	0.2889	0.0786
23	101.6150	5.3750	14385.6900	4267.9877	0.3302	0.0980
24	101.6775	5.4375	16187.9850	5222.8612	0.3716	0.1199
25	101.7400	5.5000	17990.2800	6290.4367	0.4130	0.1444
26	101.8025	5.5625	18251.6400	7422.9868	0.4190	0.1704
27	101.8650	5.6250	18513.0000	8571.8722	0.4250	0.1968
28	101.9275	5.6875	18774.3600	9737.0926	0.4310	0.2235
29	101.9900	5.7500	19035.7200	10918.6482	0.4370	0.2507
30	102.0525	5.8125	19297.0800	12116.5389	0.4430	0.2782
31	102.1150	5.8750	19558.4400	13330.7648	0.4490	0.3060
32	102.1775	5.9375	19819.8000	14561.3257	0.4550	0.3343
33	102.2400	6.0000	20081.1600	15808.2218	0.4610	0.3629

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| Variable storage data for node | CR-35
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	95.9500	0.0000	4.3560	0.0000	0.0001	0.0000
2	96.3287	0.3787	4.3560	1.6498	0.0001	0.0000
3	96.7075	0.7575	4.3560	3.2997	0.0001	0.0001
4	97.0863	1.1362	4.3560	4.9495	0.0001	0.0001
5	97.4650	1.5150	4.3560	6.5993	0.0001	0.0002
6	97.8438	1.8937	4.3560	8.2492	0.0001	0.0002
7	98.2225	2.2725	4.3560	9.8990	0.0001	0.0002
8	98.6013	2.6512	4.3560	11.5488	0.0001	0.0003
9	98.9800	3.0300	4.3560	13.1987	0.0001	0.0003
10	99.0425	3.0925	450.3015	23.5934	0.0103	0.0005
11	99.1050	3.1550	896.2470	64.8815	0.0206	0.0015
12	99.1675	3.2175	1342.1925	134.3653	0.0308	0.0031
13	99.2300	3.2800	1788.1380	231.8556	0.0411	0.0053
14	99.2925	3.3425	2234.0835	357.2917	0.0513	0.0082
15	99.3550	3.4050	2680.0290	510.6465	0.0615	0.0117
16	99.4175	3.4675	3125.9745	691.9055	0.0718	0.0159
17	99.4800	3.5300	3571.9200	901.0598	0.0820	0.0207
18	99.5425	3.5925	5374.2150	1178.7159	0.1234	0.0271
19	99.6050	3.6550	7176.5100	1569.5710	0.1648	0.0360
20	99.6675	3.7175	8978.8050	2073.3741	0.2061	0.0476
21	99.7300	3.7800	10781.1000	2690.0132	0.2475	0.0618
22	99.7925	3.8425	12583.3950	3419.4285	0.2889	0.0785
23	99.8550	3.9050	14385.6900	4261.5844	0.3302	0.0978
24	99.9175	3.9675	16187.9850	5216.4579	0.3716	0.1198
25	99.9800	4.0300	17990.2800	6284.0333	0.4130	0.1443
26	100.0425	4.0925	18251.6400	7416.5835	0.4190	0.1703
27	100.1050	4.1550	18513.0000	8565.4688	0.4250	0.1966
28	100.1675	4.2175	18774.3600	9730.6893	0.4310	0.2234
29	100.2300	4.2800	19035.7200	10912.2449	0.4370	0.2505
30	100.2925	4.3425	19297.0800	12110.1356	0.4430	0.2780
31	100.3550	4.4050	19558.4400	13324.3615	0.4490	0.3059
32	100.4175	4.4675	19819.8000	14554.9224	0.4550	0.3341
33	100.4800	4.5300	20081.1600	15801.8185	0.4610	0.3628
34	100.4800	4.5300	20081.1600	15801.8185	0.4610	0.3628

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| Variable storage data for node | CR-38
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	93.3100	0.0000	4.3560	0.0000	0.0001	0.0000
2	93.9712	0.6613	4.3560	2.8804	0.0001	0.0001
3	94.6325	1.3225	4.3560	5.7608	0.0001	0.0001
4	95.2938	1.9838	4.3560	8.6412	0.0001	0.0002
5	95.9550	2.6450	4.3560	11.5216	0.0001	0.0003
6	96.6163	3.3062	4.3560	14.4020	0.0001	0.0003
7	97.2775	3.9675	4.3560	17.2824	0.0001	0.0004
8	97.9387	4.6288	4.3560	20.1628	0.0001	0.0005
9	98.6000	5.2900	4.3560	23.0432	0.0001	0.0005
10	98.6625	5.3525	450.3015	33.4380	0.0103	0.0008
11	98.7250	5.4150	896.2470	74.7261	0.0206	0.0017
12	98.7875	5.4775	1342.1925	144.2099	0.0308	0.0033
13	98.8500	5.5400	1788.1380	241.7001	0.0411	0.0055
14	98.9125	5.6025	2234.0835	367.1363	0.0513	0.0084
15	98.9750	5.6650	2680.0290	520.4911	0.0615	0.0119
16	99.0375	5.7275	3125.9745	701.7500	0.0718	0.0161
17	99.1000	5.7900	3571.9200	910.9044	0.0820	0.0209
18	99.1625	5.8525	5374.2150	1188.5604	0.1234	0.0273
19	99.2250	5.9150	7176.5100	1579.4156	0.1648	0.0363
20	99.2875	5.9775	8978.8050	2083.2187	0.2061	0.0478
21	99.3500	6.0400	10781.1000	2699.8578	0.2475	0.0620
22	99.4125	6.1025	12583.3950	3429.2731	0.2889	0.0787
23	99.4750	6.1650	14385.6900	4271.4289	0.3302	0.0981
24	99.5375	6.2275	16187.9850	5226.3025	0.3716	0.1200
25	99.6000	6.2900	17990.2800	6293.8779	0.4130	0.1445
26	99.6625	6.3525	18251.6400	7426.4281	0.4190	0.1705
27	99.7250	6.4150	18513.0000	8575.3134	0.4250	0.1969
28	99.7875	6.4775	18774.3600	9740.5339	0.4310	0.2236
29	99.8500	6.5400	19035.7200	10922.0894	0.4370	0.2507
30	99.9125	6.6025	19297.0800	12119.9802	0.4430	0.2782
31	99.9750	6.6650	19558.4400	13334.2060	0.4490	0.3061
32	100.0375	6.7275	19819.8000	14564.7670	0.4550	0.3344
33	100.1000	6.7900	20081.1600	15811.6631	0.4610	0.3630

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| Variable storage data for node | CR-20
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	92.5600	0.0000	4.3560	0.0000	0.0001	0.0000
2	93.3937	0.8337	4.3560	3.6318	0.0001	0.0001
3	94.2275	1.6675	4.3560	7.2636	0.0001	0.0002
4	95.0613	2.5012	4.3560	10.8954	0.0001	0.0003
5	95.8950	3.3350	4.3560	14.5273	0.0001	0.0003
6	96.7288	4.1688	4.3560	18.1591	0.0001	0.0004
7	97.5625	5.0025	4.3560	21.7909	0.0001	0.0005
8	98.3963	5.8362	4.3560	25.4227	0.0001	0.0006
9	99.2300	6.6700	4.3560	29.0545	0.0001	0.0007
10	99.2925	6.7325	450.3015	39.4492	0.0103	0.0009
11	99.3550	6.7950	896.2470	80.7373	0.0206	0.0019
12	99.4175	6.8575	1342.1925	150.2212	0.0308	0.0034
13	99.4800	6.9200	1788.1380	247.7114	0.0411	0.0057
14	99.5425	6.9825	2234.0835	373.1475	0.0513	0.0086

15	99.6050	7.0450	2680.0290	526.5023	0.0615	0.0121
16	99.6675	7.1075	3125.9745	707.7613	0.0718	0.0162
17	99.7300	7.1700	3571.9200	916.9157	0.0820	0.0210
18	99.7925	7.2325	5374.2150	1194.5717	0.1234	0.0274
19	99.8550	7.2950	7176.5100	1585.4269	0.1648	0.0364
20	99.9175	7.3575	8978.8050	2089.2300	0.2061	0.0480
21	99.9800	7.4200	10781.1000	2705.8690	0.2475	0.0621
22	100.0425	7.4825	12583.3950	3435.2843	0.2889	0.0789
23	100.1050	7.5450	14385.6900	4277.4402	0.3302	0.0982
24	100.1675	7.6075	16187.9850	5232.3137	0.3716	0.1201
25	100.2300	7.6700	17990.2800	6299.8892	0.4130	0.1446
26	100.2925	7.7325	18251.6400	7432.4394	0.4190	0.1706
27	100.3550	7.7950	18513.0000	8581.3247	0.4250	0.1970
28	100.4175	7.8575	18774.3600	9746.5451	0.4310	0.2237
29	100.4800	7.9200	19035.7200	10928.1007	0.4370	0.2509
30	100.5425	7.9825	19297.0800	12125.9914	0.4430	0.2784
31	100.6050	8.0450	19558.4400	13340.2173	0.4490	0.3062
32	100.6675	8.1075	19819.8000	14570.7783	0.4550	0.3345
33	100.7300	8.1700	20081.1600	15817.6743	0.4610	0.3631
34	100.7300	8.1700	20081.1600	15817.6743	0.4610	0.3631

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| Variable storage data for node | CE-1
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	99.9000	0.0000	4.3560	0.0000	0.0001	0.0000
2	100.4213	0.5212	4.3560	2.2706	0.0001	0.0001
3	100.9425	1.0425	4.3560	4.5411	0.0001	0.0001
4	101.4638	1.5637	4.3560	6.8117	0.0001	0.0002
5	101.9850	2.0850	4.3560	9.0823	0.0001	0.0002
6	102.5063	2.6063	4.3560	11.3528	0.0001	0.0003
7	103.0275	3.1275	4.3560	13.6234	0.0001	0.0003
8	103.5488	3.6487	4.3560	15.8940	0.0001	0.0004
9	104.0700	4.1700	4.3560	18.1645	0.0001	0.0004
10	104.1325	4.2325	450.3015	28.5592	0.0103	0.0007
11	104.1950	4.2950	896.2470	69.8473	0.0206	0.0016
12	104.2575	4.3575	1342.1925	139.3312	0.0308	0.0032
13	104.3200	4.4200	1788.1380	236.8214	0.0411	0.0054
14	104.3825	4.4825	2234.0835	362.2575	0.0513	0.0083
15	104.4450	4.5450	2680.0290	515.6123	0.0615	0.0118
16	104.5075	4.6075	3125.9745	696.8713	0.0718	0.0160
17	104.5700	4.6700	3571.9200	906.0257	0.0820	0.0208
18	104.6325	4.7325	5374.2150	1183.6817	0.1234	0.0272
19	104.6950	4.7950	7176.5100	1574.5369	0.1648	0.0361
20	104.7575	4.8575	8978.8050	2078.3400	0.2061	0.0477
21	104.8200	4.9200	10781.1000	2694.9790	0.2475	0.0619
22	104.8825	4.9825	12583.3950	3424.3943	0.2889	0.0786
23	104.9450	5.0450	14385.6900	4266.5502	0.3302	0.0979
24	105.0075	5.1075	16187.9850	5221.4237	0.3716	0.1199
25	105.0700	5.1700	17990.2800	6288.9992	0.4130	0.1444
26	105.1325	5.2325	18251.6400	7421.5494	0.4190	0.1704
27	105.1950	5.2950	18513.0000	8570.4347	0.4250	0.1968
28	105.2575	5.3575	18774.3600	9735.6551	0.4310	0.2235
29	105.3200	5.4200	19035.7200	10917.2107	0.4370	0.2506
30	105.3825	5.4825	19297.0800	12115.1014	0.4430	0.2781
31	105.4450	5.5450	19558.4400	13329.3273	0.4490	0.3060
32	105.5075	5.6075	19819.8000	14559.8883	0.4550	0.3342
33	105.5700	5.6700	20081.1600	15806.7843	0.4610	0.3629

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| Variable storage data for node | CD-15
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	97.5000	0.0000	4.3560	0.0000	0.0001	0.0000
2	98.2650	0.7650	4.3560	3.3323	0.0001	0.0001
3	99.0300	1.5300	4.3560	6.6647	0.0001	0.0002
4	99.7950	2.2950	4.3560	9.9970	0.0001	0.0002
5	100.5600	3.0600	4.3560	13.3294	0.0001	0.0003
6	101.3250	3.8250	4.3560	16.6617	0.0001	0.0004
7	102.0900	4.5900	4.3560	19.9940	0.0001	0.0005
8	102.8550	5.3550	4.3560	23.3264	0.0001	0.0005
9	103.6200	6.1200	4.3560	26.6587	0.0001	0.0006
10	103.6825	6.1825	450.3015	37.0534	0.0103	0.0009
11	103.7450	6.2450	896.2470	78.3415	0.0206	0.0018
12	103.8075	6.3075	1342.1925	147.8254	0.0308	0.0034
13	103.8700	6.3700	1788.1380	245.3156	0.0411	0.0056
14	103.9325	6.4325	2234.0835	370.7517	0.0513	0.0085
15	103.9950	6.4950	2680.0290	524.1065	0.0615	0.0120
16	104.0575	6.5575	3125.9745	705.3655	0.0718	0.0162
17	104.1200	6.6200	3571.9200	914.5199	0.0820	0.0210
18	104.1825	6.6825	5374.2150	1192.1759	0.1234	0.0274
19	104.2450	6.7450	7176.5100	1583.0311	0.1648	0.0363
20	104.3075	6.8075	8978.8050	2086.8342	0.2061	0.0479
21	104.3700	6.8700	10781.1000	2703.4732	0.2475	0.0621
22	104.4325	6.9325	12583.3950	3432.8885	0.2889	0.0788
23	104.4950	6.9950	14385.6900	4275.0444	0.3302	0.0981
24	104.5575	7.0575	16187.9850	5229.9179	0.3716	0.1201
25	104.6200	7.1200	17990.2800	6297.4934	0.4130	0.1446
26	104.6825	7.1825	18251.6400	7430.0436	0.4190	0.1706
27	104.7450	7.2450	18513.0000	8578.9289	0.4250	0.1969
28	104.8075	7.3075	18774.3600	9744.1493	0.4310	0.2237
29	104.8700	7.3700	19035.7200	10925.7049	0.4370	0.2508
30	104.9325	7.4325	19297.0800	12123.5956	0.4430	0.2783
31	104.9950	7.4950	19558.4400	13337.8215	0.4490	0.3062
32	105.0575	7.5575	19819.8000	14568.3825	0.4550	0.3344
33	105.1200	7.6200	20081.1600	15815.2785	0.4610	0.3631
34	105.1200	7.6200	20081.1600	15815.2785	0.4610	0.3631

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| Variable storage data for node | CD-31
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	95.6000	0.0000	4.3560	0.0000	0.0001	0.0000
2	96.1887	0.5887	4.3560	2.5646	0.0001	0.0001
3	96.7775	1.1775	4.3560	5.1292	0.0001	0.0001
4	97.3662	1.7662	4.3560	7.6938	0.0001	0.0002
5	97.9550	2.3550	4.3560	10.2584	0.0001	0.0002
6	98.5437	2.9438	4.3560	12.8230	0.0001	0.0003
7	99.1325	3.5325	4.3560	15.3876	0.0001	0.0004
8	99.7212	4.1212	4.3560	17.9522	0.0001	0.0004
9	100.3100	4.7100	4.3560	20.5168	0.0001	0.0005
10	100.3725	4.7725	450.3015	30.9115	0.0103	0.0007
11	100.4350	4.8350	896.2470	72.1996	0.0206	0.0017
12	100.4975	4.8975	1342.1925	141.6834	0.0308	0.0033
13	100.5600	4.9600	1788.1380	239.1737	0.0411	0.0055
14	100.6225	5.0225	2234.0835	364.6098	0.0513	0.0084
15	100.6850	5.0850	2680.0290	517.9646	0.0615	0.0119
16	100.7475	5.1475	3125.9745	699.2235	0.0718	0.0161
17	100.8100	5.2100	3571.9200	908.3779	0.0820	0.0209
18	100.8725	5.2725	5374.2150	1186.0340	0.1234	0.0272
19	100.9350	5.3350	7176.5100	1576.8891	0.1648	0.0362
20	100.9975	5.3975	8978.8050	2080.6922	0.2061	0.0478

21	101.0600	5.4600	10781.1000	2697.3313	0.2475	0.0619
22	101.1225	5.5225	12583.3950	3426.7466	0.2889	0.0787
23	101.1850	5.5850	14385.6900	4268.9025	0.3302	0.0980
24	101.2475	5.6475	16187.9850	5223.7760	0.3716	0.1199
25	101.3100	5.7100	17990.2800	6291.3514	0.4130	0.1444
26	101.3725	5.7725	18251.6400	7423.9016	0.4190	0.1704
27	101.4350	5.8350	18513.0000	8572.7869	0.4250	0.1968
28	101.4975	5.8975	18774.3600	9738.0074	0.4310	0.2236
29	101.5600	5.9600	19035.7200	10919.5630	0.4370	0.2507
30	101.6225	6.0225	19297.0800	12117.4537	0.4430	0.2782
31	101.6850	6.0850	19558.4400	13331.6795	0.4490	0.3061
32	101.7475	6.1475	19819.8000	14562.2405	0.4550	0.3343
33	101.8100	6.2100	20081.1600	15809.1366	0.4610	0.3629
34	101.8100	6.2100	20081.1600	15809.1366	0.4610	0.3629

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| Variable storage data for node | CR-13
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	96.7600	0.0000	4.3560	0.0000	0.0001	0.0000
2	97.2600	0.5000	4.3560	2.1780	0.0001	0.0000
3	97.7600	1.0000	4.3560	4.3560	0.0001	0.0001
4	98.2600	1.5000	4.3560	6.5340	0.0001	0.0001
5	98.7600	2.0000	4.3560	8.7120	0.0001	0.0002
6	99.2600	2.5000	4.3560	10.8900	0.0001	0.0002
7	99.7600	3.0000	4.3560	13.0680	0.0001	0.0003
8	100.2600	3.5000	4.3560	15.2460	0.0001	0.0003
9	100.7600	4.0000	4.3560	17.4240	0.0001	0.0004
10	100.8225	4.0625	450.3015	27.8187	0.0103	0.0006
11	100.8850	4.1250	896.2470	69.1068	0.0206	0.0016
12	100.9475	4.1875	1342.1925	138.5907	0.0308	0.0032
13	101.0100	4.2500	1788.1380	236.0809	0.0411	0.0054
14	101.0725	4.3125	2234.0835	361.5170	0.0513	0.0083
15	101.1350	4.3750	2680.0290	514.8718	0.0615	0.0118
16	101.1975	4.4375	3125.9745	696.1308	0.0718	0.0160
17	101.2600	4.5000	3571.9200	905.2852	0.0820	0.0208
18	101.3225	4.5625	5374.2150	1182.9412	0.1234	0.0272
19	101.3850	4.6250	7176.5100	1573.7964	0.1648	0.0361
20	101.4475	4.6875	8978.8050	2077.5995	0.2061	0.0477
21	101.5100	4.7500	10781.1000	2694.2385	0.2475	0.0619
22	101.5725	4.8125	12583.3950	3423.6538	0.2889	0.0786
23	101.6350	4.8750	14385.6900	4265.8097	0.3302	0.0979
24	101.6975	4.9375	16187.9850	5220.6832	0.3716	0.1199
25	101.7600	5.0000	17990.2800	6288.2587	0.4130	0.1444
26	101.8225	5.0625	18251.6400	7420.8088	0.4190	0.1704
27	101.8850	5.1250	18513.0000	8569.6942	0.4250	0.1967
28	101.9475	5.1875	18774.3600	9734.9146	0.4310	0.2235
29	102.0100	5.2500	19035.7200	10916.4702	0.4370	0.2506
30	102.0725	5.3125	19297.0800	12114.3609	0.4430	0.2781
31	102.1350	5.3750	19558.4400	13328.5868	0.4490	0.3060
32	102.1975	5.4375	19819.8000	14559.1477	0.4550	0.3342
33	102.2600	5.5000	20081.1600	15806.0438	0.4610	0.3629

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| Variable storage data for node | CR-17
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	91.1600	0.0000	4.3560	0.0000	0.0001	0.0000
2	92.4900	1.3300	4.3560	5.7935	0.0001	0.0001
3	93.8200	2.6600	4.3560	11.5870	0.0001	0.0003
4	95.1500	3.9900	4.3560	17.3804	0.0001	0.0004
5	96.4800	5.3200	4.3560	23.1739	0.0001	0.0005
6	97.8100	6.6500	4.3560	28.9674	0.0001	0.0007
7	99.1400	7.9800	4.3560	34.7609	0.0001	0.0008
8	100.4700	9.3100	4.3560	40.5544	0.0001	0.0009
9	101.8000	10.6400	4.3560	46.3478	0.0001	0.0011
10	101.8625	10.7025	450.3015	56.7426	0.0103	0.0013
11	101.9250	10.7650	896.2470	98.0307	0.0206	0.0023
12	101.9875	10.8275	1342.1925	167.5145	0.0308	0.0038
13	102.0500	10.8900	1788.1380	265.0047	0.0411	0.0061
14	102.1125	10.9525	2234.0835	390.4409	0.0513	0.0090
15	102.1750	11.0150	2680.0290	543.7957	0.0615	0.0125
16	102.2375	11.0775	3125.9745	725.0546	0.0718	0.0166
17	102.3000	11.1400	3571.9200	934.2090	0.0820	0.0214
18	102.3625	11.2025	5374.2150	1211.8650	0.1234	0.0278
19	102.4250	11.2650	7176.5100	1602.7202	0.1648	0.0368
20	102.4875	11.3275	8978.8050	2106.5233	0.2061	0.0484
21	102.5500	11.3900	10781.1000	2723.1624	0.2475	0.0625
22	102.6125	11.4525	12583.3950	3452.5777	0.2889	0.0793
23	102.6750	11.5150	14385.6900	4294.7335	0.3302	0.0986
24	102.7375	11.5775	16187.9850	5249.6071	0.3716	0.1205
25	102.8000	11.6400	17990.2800	6317.1825	0.4130	0.1450
26	102.8625	11.7025	18251.6400	7449.7327	0.4190	0.1710
27	102.9250	11.7650	18513.0000	8598.6180	0.4250	0.1974
28	102.9875	11.8275	18774.3600	9763.8385	0.4310	0.2241
29	103.0500	11.8900	19035.7200	10945.3940	0.4370	0.2513
30	103.1125	11.9525	19297.0800	12143.2848	0.4430	0.2788
31	103.1750	12.0150	19558.4400	13357.5106	0.4490	0.3066
32	103.2375	12.0775	19819.8000	14588.0716	0.4550	0.3349
33	103.3000	12.1400	20081.1600	15834.9677	0.4610	0.3635

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| Variable storage data for node | CR-14
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	94.6500	0.0000	4.3560	0.0000	0.0001	0.0000
2	95.4625	0.8125	4.3560	3.5392	0.0001	0.0001
3	96.2750	1.6250	4.3560	7.0785	0.0001	0.0002
4	97.0875	2.4375	4.3560	10.6177	0.0001	0.0002
5	97.9000	3.2500	4.3560	14.1570	0.0001	0.0003
6	98.7125	4.0625	4.3560	17.6962	0.0001	0.0004
7	99.5250	4.8750	4.3560	21.2355	0.0001	0.0005
8	100.3375	5.6875	4.3560	24.7747	0.0001	0.0006
9	101.1500	6.5000	4.3560	28.3140	0.0001	0.0006
10	101.2125	6.5625	450.3015	38.7087	0.0103	0.0009
11	101.2750	6.6250	896.2470	79.9968	0.0206	0.0018
12	101.3375	6.6875	1342.1925	149.4807	0.0308	0.0034
13	101.4000	6.7500	1788.1380	246.9709	0.0411	0.0057
14	101.4625	6.8125	2234.0835	372.4070	0.0513	0.0085
15	101.5250	6.8750	2680.0290	525.7618	0.0615	0.0121
16	101.5875	6.9375	3125.9745	707.0208	0.0718	0.0162
17	101.6500	7.0000	3571.9200	916.1752	0.0820	0.0210
18	101.7125	7.0625	5374.2150	1193.8312	0.1234	0.0274
19	101.7750	7.1250	7176.5100	1584.6864	0.1648	0.0364
20	101.8375	7.1875	8978.8050	2088.4895	0.2061	0.0479
21	101.9000	7.2500	10781.1000	2705.1285	0.2475	0.0621
22	101.9625	7.3125	12583.3950	3434.5438	0.2889	0.0788
23	102.0250	7.3750	14385.6900	4276.6997	0.3302	0.0982
24	102.0875	7.4375	16187.9850	5231.5732	0.3716	0.1201
25	102.1500	7.5000	17990.2800	6299.1487	0.4130	0.1446
26	102.2125	7.5625	18251.6400	7431.6988	0.4190	0.1706
27	102.2750	7.6250	18513.0000	8580.5842	0.4250	0.1970

28	102.3375	7.6875	18774.3600	9745.8046	0.4310	0.2237
29	102.4000	7.7500	19035.7200	10927.3602	0.4370	0.2509
30	102.4625	7.8125	19297.0800	12125.2509	0.4430	0.2784
31	102.5250	7.8750	19558.4400	13339.4768	0.4490	0.3062
32	102.5875	7.9375	19819.8000	14570.0377	0.4550	0.3345
33	102.6500	8.0000	20081.1600	15816.9338	0.4610	0.3631

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| Variable storage data for node | CG-1
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	99.2400	0.0000	4.3560	0.0000	0.0001	0.0000
2	99.6388	0.3987	4.3560	1.7370	0.0001	0.0000
3	100.0375	0.7975	4.3560	3.4739	0.0001	0.0001
4	100.4363	1.1963	4.3560	5.2109	0.0001	0.0001
5	100.8350	1.5950	4.3560	6.9478	0.0001	0.0002
6	101.2338	1.9937	4.3560	8.6848	0.0001	0.0002
7	101.6325	2.3925	4.3560	10.4217	0.0001	0.0002
8	102.0312	2.7912	4.3560	12.1587	0.0001	0.0003
9	102.4300	3.1900	4.3560	13.8956	0.0001	0.0003
10	102.4925	3.2525	450.3015	24.2904	0.0103	0.0006
11	102.5550	3.3150	896.2470	65.5785	0.0206	0.0015
12	102.6175	3.3775	1342.1925	135.0623	0.0308	0.0031
13	102.6800	3.4400	1788.1380	232.5525	0.0411	0.0053
14	102.7425	3.5025	2234.0835	357.9887	0.0513	0.0082
15	102.8050	3.5650	2680.0290	511.3435	0.0615	0.0117
16	102.8675	3.6275	3125.9745	692.6024	0.0718	0.0159
17	102.9300	3.6900	3571.9200	901.7568	0.0820	0.0207
18	102.9925	3.7525	5374.2150	1179.4128	0.1234	0.0271
19	103.0550	3.8150	7176.5100	1570.2680	0.1648	0.0360
20	103.1175	3.8775	8978.8050	2074.0711	0.2061	0.0476
21	103.1800	3.9400	10781.1000	2690.7102	0.2475	0.0618
22	103.2425	4.0025	12583.3950	3420.1255	0.2889	0.0785
23	103.3050	4.0650	14385.6900	4262.2813	0.3302	0.0978
24	103.3675	4.1275	16187.9850	5217.1549	0.3716	0.1198
25	103.4300	4.1900	17990.2800	6284.7303	0.4130	0.1443
26	103.4925	4.2525	18251.6400	7417.2805	0.4190	0.1703
27	103.5550	4.3150	18513.0000	8566.1658	0.4250	0.1967
28	103.6175	4.3775	18774.3600	9731.3863	0.4310	0.2234
29	103.6800	4.4400	19035.7200	10912.9418	0.4370	0.2505
30	103.7425	4.5025	19297.0800	12110.8326	0.4430	0.2780
31	103.8050	4.5650	19558.4400	13325.0584	0.4490	0.3059
32	103.8675	4.6275	19819.8000	14555.6194	0.4550	0.3342
33	103.9300	4.6900	20081.1600	15802.5155	0.4610	0.3628
34	103.9300	4.6900	20081.1600	15802.5155	0.4610	0.3628

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| Variable storage data for node | CE-5
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	95.7300	0.0000	4.3560	0.0000	0.0001	0.0000
2	96.5675	0.8375	4.3560	3.6481	0.0001	0.0001
3	97.4050	1.6750	4.3560	7.2963	0.0001	0.0002
4	98.2425	2.5125	4.3560	10.9444	0.0001	0.0003
5	99.0800	3.3500	4.3560	14.5926	0.0001	0.0003
6	99.9175	4.1875	4.3560	18.2407	0.0001	0.0004
7	100.7550	5.0250	4.3560	21.8889	0.0001	0.0005
8	101.5925	5.8625	4.3560	25.5370	0.0001	0.0006
9	102.4300	6.7000	4.3560	29.1852	0.0001	0.0007
10	102.4925	6.7625	450.3015	39.5799	0.0103	0.0009
11	102.5550	6.8250	896.2470	80.8680	0.0206	0.0019
12	102.6175	6.8875	1342.1925	150.3519	0.0308	0.0035
13	102.6800	6.9500	1788.1380	247.8421	0.0411	0.0057
14	102.7425	7.0125	2234.0835	373.2782	0.0513	0.0086
15	102.8050	7.0750	2680.0290	526.6330	0.0615	0.0121
16	102.8675	7.1375	3125.9745	707.8920	0.0718	0.0163
17	102.9300	7.2000	3571.9200	917.0464	0.0820	0.0211
18	102.9925	7.2625	5374.2150	1194.7024	0.1234	0.0274
19	103.0550	7.3250	7176.5100	1585.5576	0.1648	0.0364
20	103.1175	7.3875	8978.8050	2089.3607	0.2061	0.0480
21	103.1800	7.4500	10781.1000	2705.9997	0.2475	0.0621
22	103.2425	7.5125	12583.3950	3435.4150	0.2889	0.0789
23	103.3050	7.5750	14385.6900	4277.5709	0.3302	0.0982
24	103.3675	7.6375	16187.9850	5232.4444	0.3716	0.1201
25	103.4300	7.7000	17990.2800	6300.0199	0.4130	0.1446
26	103.4925	7.7625	18251.6400	7432.5700	0.4190	0.1706
27	103.5550	7.8250	18513.0000	8581.4554	0.4250	0.1970
28	103.6175	7.8875	18774.3600	9746.6758	0.4310	0.2238
29	103.6800	7.9500	19035.7200	10928.2314	0.4370	0.2509
30	103.7425	8.0125	19297.0800	12126.1221	0.4430	0.2784
31	103.8050	8.0750	19558.4400	13340.3480	0.4490	0.3063
32	103.8675	8.1375	19819.8000	14570.9089	0.4550	0.3345
33	103.9300	8.2000	20081.1600	15817.8050	0.4610	0.3631
34	103.9300	8.2000	20081.1600	15817.8050	0.4610	0.3631

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| Variable storage data for node | CE-4
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	96.4500	0.0000	4.3560	0.0000	0.0001	0.0000
2	97.1375	0.6875	4.3560	2.9947	0.0001	0.0001
3	97.8250	1.3750	4.3560	5.9895	0.0001	0.0001
4	98.5125	2.0625	4.3560	8.9842	0.0001	0.0002
5	99.2000	2.7500	4.3560	11.9790	0.0001	0.0003
6	99.8875	3.4375	4.3560	14.9737	0.0001	0.0003
7	100.5750	4.1250	4.3560	17.9685	0.0001	0.0004
8	101.2625	4.8125	4.3560	20.9632	0.0001	0.0005
9	101.9500	5.5000	4.3560	23.9580	0.0001	0.0005
10	102.0125	5.5625	450.3015	34.3527	0.0103	0.0008
11	102.0750	5.6250	896.2470	75.6408	0.0206	0.0017
12	102.1375	5.6875	1342.1925	145.1247	0.0308	0.0033
13	102.2000	5.7500	1788.1380	242.6149	0.0411	0.0056
14	102.2625	5.8125	2234.0835	368.0510	0.0513	0.0084
15	102.3250	5.8750	2680.0290	521.4058	0.0615	0.0120
16	102.3875	5.9375	3125.9745	702.6648	0.0718	0.0161
17	102.4500	6.0000	3571.9200	911.8192	0.0820	0.0209
18	102.5125	6.0625	5374.2150	1189.4752	0.1234	0.0273
19	102.5750	6.1250	7176.5100	1580.3304	0.1648	0.0363
20	102.6375	6.1875	8978.8050	2084.1335	0.2061	0.0478
21	102.7000	6.2500	10781.1000	2700.7725	0.2475	0.0620
22	102.7625	6.3125	12583.3950	3430.1878	0.2889	0.0787
23	102.8250	6.3750	14385.6900	4272.3437	0.3302	0.0981
24	102.8875	6.4375	16187.9850	5227.2172	0.3716	0.1200
25	102.9500	6.5000	17990.2800	6294.7927	0.4130	0.1445
26	103.0125	6.5625	18251.6400	7427.3428	0.4190	0.1705
27	103.0750	6.6250	18513.0000	8576.2282	0.4250	0.1969
28	103.1375	6.6875	18774.3600	9741.4486	0.4310	0.2236
29	103.2000	6.7500	19035.7200	10923.0042	0.4370	0.2508
30	103.2625	6.8125	19297.0800	12120.8949	0.4430	0.2783
31	103.3250	6.8750	19558.4400	13335.1208	0.4490	0.3061
32	103.3875	6.9375	19819.8000	14565.6817	0.4550	0.3344
33	103.4500	7.0000	20081.1600	15812.5778	0.4610	0.3630

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| Variable storage data for node | CD-24
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	96.4100	0.0000	4.3560	0.0000	0.0001	0.0000
2	96.9725	0.5625	4.3560	2.4502	0.0001	0.0001
3	97.5350	1.1250	4.3560	4.9005	0.0001	0.0001
4	98.0975	1.6875	4.3560	7.3507	0.0001	0.0002
5	98.6600	2.2500	4.3560	9.8010	0.0001	0.0002
6	99.2225	2.8125	4.3560	12.2512	0.0001	0.0003
7	99.7850	3.3750	4.3560	14.7015	0.0001	0.0003
8	100.3475	3.9375	4.3560	17.1517	0.0001	0.0004
9	100.9100	4.5000	4.3560	19.6020	0.0001	0.0004
10	100.9725	4.5625	450.3015	29.9967	0.0103	0.0007
11	101.0350	4.6250	896.2470	71.2848	0.0206	0.0016
12	101.0975	4.6875	1342.1925	140.7687	0.0308	0.0032
13	101.1600	4.7500	1788.1380	238.2589	0.0411	0.0055
14	101.2225	4.8125	2234.0835	363.6950	0.0513	0.0083
15	101.2850	4.8750	2680.0290	517.0498	0.0615	0.0119
16	101.3475	4.9375	3125.9745	698.3088	0.0718	0.0160
17	101.4100	5.0000	3571.9200	907.4632	0.0820	0.0208
18	101.4725	5.0625	5374.2150	1185.1192	0.1234	0.0272
19	101.5350	5.1250	7176.5100	1575.9744	0.1648	0.0362
20	101.5975	5.1875	8978.8050	2079.7775	0.2061	0.0477
21	101.6600	5.2500	10781.1000	2696.4165	0.2475	0.0619
22	101.7225	5.3125	12583.3950	3425.8318	0.2889	0.0786
23	101.7850	5.3750	14385.6900	4267.9877	0.3302	0.0980
24	101.8475	5.4375	16187.9850	5222.8612	0.3716	0.1199
25	101.9100	5.5000	17990.2800	6290.4367	0.4130	0.1444
26	101.9725	5.5625	18251.6400	7422.9868	0.4190	0.1704
27	102.0350	5.6250	18513.0000	8571.8722	0.4250	0.1968
28	102.0975	5.6875	18774.3600	9737.0926	0.4310	0.2235
29	102.1600	5.7500	19035.7200	10918.6482	0.4370	0.2507
30	102.2225	5.8125	19297.0800	12116.5389	0.4430	0.2782
31	102.2850	5.8750	19558.4400	13330.7648	0.4490	0.3060
32	102.3475	5.9375	19819.8000	14561.3257	0.4550	0.3343
33	102.4100	6.0000	20081.1600	15808.2218	0.4610	0.3629

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| Variable storage data for node | CD-14
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	99.3000	0.0000	4.3560	0.0000	0.0001	0.0000
2	99.9637	0.6637	4.3560	2.8913	0.0001	0.0001
3	100.6275	1.3275	4.3560	5.7826	0.0001	0.0001
4	101.2912	1.9912	4.3560	8.6739	0.0001	0.0002
5	101.9550	2.6550	4.3560	11.5652	0.0001	0.0003
6	102.6187	3.3187	4.3560	14.4565	0.0001	0.0003
7	103.2825	3.9825	4.3560	17.3478	0.0001	0.0004
8	103.9462	4.6462	4.3560	20.2391	0.0001	0.0005
9	104.6100	5.3100	4.3560	23.1304	0.0001	0.0005
10	104.6725	5.3725	450.3015	33.5251	0.0103	0.0008
11	104.7350	5.4350	896.2470	74.8132	0.0206	0.0017
12	104.7975	5.4975	1342.1925	144.2970	0.0308	0.0033
13	104.8600	5.5600	1788.1380	241.7873	0.0411	0.0056
14	104.9225	5.6225	2234.0835	367.2234	0.0513	0.0084
15	104.9850	5.6850	2680.0290	520.5782	0.0615	0.0120
16	105.0475	5.7475	3125.9745	701.8371	0.0718	0.0161
17	105.1100	5.8100	3571.9200	910.9915	0.0820	0.0209
18	105.1725	5.8725	5374.2150	1188.6476	0.1234	0.0273
19	105.2350	5.9350	7176.5100	1579.5027	0.1648	0.0363
20	105.2975	5.9975	8978.8050	2083.3058	0.2061	0.0478
21	105.3600	6.0600	10781.1000	2699.9449	0.2475	0.0620
22	105.4225	6.1225	12583.3950	3429.3602	0.2889	0.0787
23	105.4850	6.1850	14385.6900	4271.5161	0.3302	0.0981
24	105.5475	6.2475	16187.9850	5226.3896	0.3716	0.1200
25	105.6100	6.3100	17990.2800	6293.9650	0.4130	0.1445
26	105.6725	6.3725	18251.6400	7426.5152	0.4190	0.1705
27	105.7350	6.4350	18513.0000	8575.4005	0.4250	0.1969
28	105.7975	6.4975	18774.3600	9740.6210	0.4310	0.2236
29	105.8600	6.5600	19035.7200	10922.1766	0.4370	0.2507
30	105.9225	6.6225	19297.0800	12120.0673	0.4430	0.2782
31	105.9850	6.6850	19558.4400	13334.2931	0.4490	0.3061
32	106.0475	6.7475	19819.8000	14564.8541	0.4550	0.3344
33	106.1100	6.8100	20081.1600	15811.7502	0.4610	0.3630
34	106.1100	6.8100	20081.1600	15811.7502	0.4610	0.3630

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| Variable storage data for node | CD-16
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	97.5000	0.0000	4.3560	0.0000	0.0001	0.0000
2	98.1513	0.6512	4.3560	2.8368	0.0001	0.0001
3	98.8025	1.3025	4.3560	5.6737	0.0001	0.0001
4	99.4537	1.9537	4.3560	8.5105	0.0001	0.0002
5	100.1050	2.6050	4.3560	11.3474	0.0001	0.0003
6	100.7562	3.2563	4.3560	14.1842	0.0001	0.0003
7	101.4075	3.9075	4.3560	17.0211	0.0001	0.0004
8	102.0588	4.5587	4.3560	19.8579	0.0001	0.0005
9	102.7100	5.2100	4.3560	22.6948	0.0001	0.0005
10	102.7725	5.2725	450.3015	33.0895	0.0103	0.0008
11	102.8350	5.3350	896.2470	74.3776	0.0206	0.0017
12	102.8975	5.3975	1342.1925	143.8614	0.0308	0.0033
13	102.9600	5.4600	1788.1380	241.3517	0.0411	0.0055
14	103.0225	5.5225	2234.0835	366.7878	0.0513	0.0084
15	103.0850	5.5850	2680.0290	520.1426	0.0615	0.0119
16	103.1475	5.6475	3125.9745	701.4015	0.0718	0.0161
17	103.2100	5.7100	3571.9200	910.5559	0.0820	0.0209
18	103.2725	5.7725	5374.2150	1188.2120	0.1234	0.0273
19	103.3350	5.8350	7176.5100	1579.0671	0.1648	0.0363
20	103.3975	5.8975	8978.8050	2082.8702	0.2061	0.0478
21	103.4600	5.9600	10781.1000	2699.5093	0.2475	0.0620
22	103.5225	6.0225	12583.3950	3428.9246	0.2889	0.0787
23	103.5850	6.0850	14385.6900	4271.0805	0.3302	0.0981
24	103.6475	6.1475	16187.9850	5225.9540	0.3716	0.1200
25	103.7100	6.2100	17990.2800	6293.5294	0.4130	0.1445
26	103.7725	6.2725	18251.6400	7426.0796	0.4190	0.1705
27	103.8350	6.3350	18513.0000	8574.9649	0.4250	0.1969
28	103.8975	6.3975	18774.3600	9740.1854	0.4310	0.2236
29	103.9600	6.4600	19035.7200	10921.7410	0.4370	0.2507
30	104.0225	6.5225	19297.0800	12119.6317	0.4430	0.2782
31	104.0850	6.5850	19558.4400	13333.8575	0.4490	0.3061
32	104.1475	6.6475	19819.8000	14564.4185	0.4550	0.3344
33	104.2100	6.7100	20081.1600	15811.3146	0.4610	0.3630

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| Variable storage data for node | CD-17
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft

1	97.3200	0.0000	4.3560	0.0000	0.0001	0.0000
2	97.8825	0.5625	4.3560	2.4502	0.0001	0.0001
3	98.4450	1.1250	4.3560	4.9005	0.0001	0.0001
4	99.0075	1.6875	4.3560	7.3507	0.0001	0.0002
5	99.5700	2.2500	4.3560	9.8010	0.0001	0.0002
6	100.1325	2.8125	4.3560	12.2512	0.0001	0.0003
7	100.6950	3.3750	4.3560	14.7015	0.0001	0.0003
8	101.2575	3.9375	4.3560	17.1517	0.0001	0.0004
9	101.8200	4.5000	4.3560	19.6020	0.0001	0.0004
10	101.8825	4.5625	450.3015	29.9967	0.0103	0.0007
11	101.9450	4.6250	896.2470	71.2848	0.0206	0.0016
12	102.0075	4.6875	1342.1925	140.7687	0.0308	0.0032
13	102.0700	4.7500	1788.1380	238.2589	0.0411	0.0055
14	102.1325	4.8125	2234.0835	363.6950	0.0513	0.0083
15	102.1950	4.8750	2680.0290	517.0498	0.0615	0.0119
16	102.2575	4.9375	3125.9745	698.3088	0.0718	0.0160
17	102.3200	5.0000	3571.9200	907.4632	0.0820	0.0208
18	102.3825	5.0625	5374.2150	1185.1192	0.1234	0.0272
19	102.4450	5.1250	7176.5100	1575.9744	0.1648	0.0362
20	102.5075	5.1875	8978.8050	2079.7775	0.2061	0.0477
21	102.5700	5.2500	10781.1000	2696.4165	0.2475	0.0619
22	102.6325	5.3125	12583.3950	3425.8318	0.2889	0.0786
23	102.6950	5.3750	14385.6900	4267.9877	0.3302	0.0980
24	102.7575	5.4375	16187.9850	5222.8612	0.3716	0.1199
25	102.8200	5.5000	17990.2800	6290.4367	0.4130	0.1444
26	102.8825	5.5625	18251.6400	7422.9868	0.4190	0.1704
27	102.9450	5.6250	18513.0000	8571.8722	0.4250	0.1968
28	103.0075	5.6875	18774.3600	9737.0926	0.4310	0.2235
29	103.0700	5.7500	19035.7200	10918.6482	0.4370	0.2507
30	103.1325	5.8125	19297.0800	12116.5389	0.4430	0.2782
31	103.1950	5.8750	19558.4400	13330.7648	0.4490	0.3060
32	103.2575	5.9375	19819.8000	14561.3257	0.4550	0.3343
33	103.3200	6.0000	20081.1600	15808.2218	0.4610	0.3629

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| Variable storage data for node | CD-18
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	97.5400	0.0000	4.3560	0.0000	0.0001	0.0000
2	98.1025	0.5625	4.3560	2.4502	0.0001	0.0001
3	98.6650	1.1250	4.3560	4.9005	0.0001	0.0001
4	99.2275	1.6875	4.3560	7.3507	0.0001	0.0002
5	99.7900	2.2500	4.3560	9.8010	0.0001	0.0002
6	100.3525	2.8125	4.3560	12.2512	0.0001	0.0003
7	100.9150	3.3750	4.3560	14.7015	0.0001	0.0003
8	101.4775	3.9375	4.3560	17.1517	0.0001	0.0004
9	102.0400	4.5000	4.3560	19.6020	0.0001	0.0004
10	102.1025	4.5625	450.3015	29.9967	0.0103	0.0007
11	102.1650	4.6250	896.2470	71.2848	0.0206	0.0016
12	102.2275	4.6875	1342.1925	140.7687	0.0308	0.0032
13	102.2900	4.7500	1788.1380	238.2589	0.0411	0.0055
14	102.3525	4.8125	2234.0835	363.6950	0.0513	0.0083
15	102.4150	4.8750	2680.0290	517.0498	0.0615	0.0119
16	102.4775	4.9375	3125.9745	698.3088	0.0718	0.0160
17	102.5400	5.0000	3571.9200	907.4632	0.0820	0.0208
18	102.6025	5.0625	5374.2150	1185.1192	0.1234	0.0272
19	102.6650	5.1250	7176.5100	1575.9744	0.1648	0.0362
20	102.7275	5.1875	8978.8050	2079.7775	0.2061	0.0477
21	102.7900	5.2500	10781.1000	2696.4165	0.2475	0.0619
22	102.8525	5.3125	12583.3950	3425.8318	0.2889	0.0786
23	102.9150	5.3750	14385.6900	4267.9877	0.3302	0.0980
24	102.9775	5.4375	16187.9850	5222.8612	0.3716	0.1199
25	103.0400	5.5000	17990.2800	6290.4367	0.4130	0.1444
26	103.1025	5.5625	18251.6400	7422.9868	0.4190	0.1704
27	103.1650	5.6250	18513.0000	8571.8722	0.4250	0.1968
28	103.2275	5.6875	18774.3600	9737.0926	0.4310	0.2235
29	103.2900	5.7500	19035.7200	10918.6482	0.4370	0.2507
30	103.3525	5.8125	19297.0800	12116.5389	0.4430	0.2782
31	103.4150	5.8750	19558.4400	13330.7648	0.4490	0.3060
32	103.4775	5.9375	19819.8000	14561.3257	0.4550	0.3343
33	103.5400	6.0000	20081.1600	15808.2218	0.4610	0.3629

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| Variable storage data for node | CE-2
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	99.5700	0.0000	4.3560	0.0000	0.0001	0.0000
2	100.0700	0.5000	4.3560	2.1780	0.0001	0.0000
3	100.5700	1.0000	4.3560	4.3560	0.0001	0.0001
4	101.0700	1.5000	4.3560	6.5340	0.0001	0.0001
5	101.5700	2.0000	4.3560	8.7120	0.0001	0.0002
6	102.0700	2.5000	4.3560	10.8900	0.0001	0.0002
7	102.5700	3.0000	4.3560	13.0680	0.0001	0.0003
8	103.0700	3.5000	4.3560	15.2460	0.0001	0.0003
9	103.5700	4.0000	4.3560	17.4240	0.0001	0.0004
10	103.6325	4.0625	450.3015	27.8187	0.0103	0.0006
11	103.6950	4.1250	896.2470	69.1068	0.0206	0.0016
12	103.7575	4.1875	1342.1925	138.5907	0.0308	0.0032
13	103.8200	4.2500	1788.1380	236.0809	0.0411	0.0054
14	103.8825	4.3125	2234.0835	361.5170	0.0513	0.0083
15	103.9450	4.3750	2680.0290	514.8718	0.0615	0.0118
16	104.0075	4.4375	3125.9745	696.1308	0.0718	0.0160
17	104.0700	4.5000	3571.9200	905.2852	0.0820	0.0208
18	104.1325	4.5625	5374.2150	1182.9412	0.1234	0.0272
19	104.1950	4.6250	7176.5100	1573.7964	0.1648	0.0361
20	104.2575	4.6875	8978.8050	2077.5995	0.2061	0.0477
21	104.3200	4.7500	10781.1000	2694.2385	0.2475	0.0619
22	104.3825	4.8125	12583.3950	3423.6538	0.2889	0.0786
23	104.4450	4.8750	14385.6900	4265.8097	0.3302	0.0979
24	104.5075	4.9375	16187.9850	5220.6832	0.3716	0.1199
25	104.5700	5.0000	17990.2800	6288.2587	0.4130	0.1444
26	104.6325	5.0625	18251.6400	7420.8088	0.4190	0.1704
27	104.6950	5.1250	18513.0000	8569.6942	0.4250	0.1967
28	104.7575	5.1875	18774.3600	9734.9146	0.4310	0.2235
29	104.8200	5.2500	19035.7200	10916.4702	0.4370	0.2506
30	104.8825	5.3125	19297.0800	12114.3609	0.4430	0.2781
31	104.9450	5.3750	19558.4400	13328.5868	0.4490	0.3060
32	105.0075	5.4375	19819.8000	14559.1477	0.4550	0.3342
33	105.0700	5.5000	20081.1600	15806.0438	0.4610	0.3629

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| Variable storage data for node | CE-3
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	97.7700	0.0000	4.3560	0.0000	0.0001	0.0000
2	98.3950	0.6250	4.3560	2.7225	0.0001	0.0001
3	99.0200	1.2500	4.3560	5.4450	0.0001	0.0001
4	99.6450	1.8750	4.3560	8.1675	0.0001	0.0002
5	100.2700	2.5000	4.3560	10.8900	0.0001	0.0002
6	100.8950	3.1250	4.3560	13.6125	0.0001	0.0003
7	101.5200	3.7500	4.3560	16.3350	0.0001	0.0004
8	102.1450	4.3750	4.3560	19.0575	0.0001	0.0004

9	102.7700	5.0000	4.3560	21.7800	0.0001	0.0005
10	102.8325	5.0625	450.3015	32.1747	0.0103	0.0007
11	102.8950	5.1250	896.2470	73.4628	0.0206	0.0017
12	102.9575	5.1875	1342.1925	142.9467	0.0308	0.0033
13	103.0200	5.2500	1788.1380	240.4369	0.0411	0.0055
14	103.0825	5.3125	2234.0835	365.8730	0.0513	0.0084
15	103.1450	5.3750	2680.0290	519.2278	0.0615	0.0119
16	103.2075	5.4375	3125.9745	700.4868	0.0718	0.0161
17	103.2700	5.5000	3571.9200	909.6412	0.0820	0.0209
18	103.3325	5.5625	5374.2150	1187.2972	0.1234	0.0273
19	103.3950	5.6250	7176.5100	1578.1524	0.1648	0.0362
20	103.4575	5.6875	8978.8050	2081.9555	0.2061	0.0478
21	103.5200	5.7500	10781.1000	2698.5945	0.2475	0.0620
22	103.5825	5.8125	12583.3950	3428.0098	0.2889	0.0787
23	103.6450	5.8750	14385.6900	4270.1657	0.3302	0.0980
24	103.7075	5.9375	16187.9850	5225.0392	0.3716	0.1200
25	103.7700	6.0000	17990.2800	6292.6147	0.4130	0.1445
26	103.8325	6.0625	18251.6400	7425.1648	0.4190	0.1705
27	103.8950	6.1250	18513.0000	8574.0502	0.4250	0.1968
28	103.9575	6.1875	18774.3600	9739.2706	0.4310	0.2236
29	104.0200	6.2500	19035.7200	10920.8262	0.4370	0.2507
30	104.0825	6.3125	19297.0800	12118.7169	0.4430	0.2782
31	104.1450	6.3750	19558.4400	13332.9428	0.4490	0.3061
32	104.2075	6.4375	19819.8000	14563.5037	0.4550	0.3343
33	104.2700	6.5000	20081.1600	15810.3998	0.4610	0.3630

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| Variable storage data for node | CD-19
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	97.4100	0.0000	4.3560	0.0000	0.0001	0.0000
2	97.9725	0.5625	4.3560	2.4502	0.0001	0.0001
3	98.5350	1.1250	4.3560	4.9005	0.0001	0.0001
4	99.0975	1.6875	4.3560	7.3507	0.0001	0.0002
5	99.6600	2.2500	4.3560	9.8010	0.0001	0.0002
6	100.2225	2.8125	4.3560	12.2512	0.0001	0.0003
7	100.7850	3.3750	4.3560	14.7015	0.0001	0.0003
8	101.3475	3.9375	4.3560	17.1517	0.0001	0.0004
9	101.9100	4.5000	4.3560	19.6020	0.0001	0.0004
10	101.9725	4.5625	450.3015	29.9967	0.0103	0.0007
11	102.0350	4.6250	896.2470	71.2848	0.0206	0.0016
12	102.0975	4.6875	1342.1925	140.7687	0.0308	0.0032
13	102.1600	4.7500	1788.1380	238.2589	0.0411	0.0055
14	102.2225	4.8125	2234.0835	363.6950	0.0513	0.0083
15	102.2850	4.8750	2680.0290	517.0498	0.0615	0.0119
16	102.3475	4.9375	3125.9745	698.3088	0.0718	0.0160
17	102.4100	5.0000	3571.9200	907.4632	0.0820	0.0208
18	102.4725	5.0625	5374.2150	1185.1192	0.1234	0.0272
19	102.5350	5.1250	7176.5100	1575.9744	0.1648	0.0362
20	102.5975	5.1875	8978.8050	2079.7775	0.2061	0.0477
21	102.6600	5.2500	10781.1000	2696.4165	0.2475	0.0619
22	102.7225	5.3125	12583.3950	3425.8318	0.2889	0.0786
23	102.7850	5.3750	14385.6900	4267.9877	0.3302	0.0980
24	102.8475	5.4375	16187.9850	5222.8612	0.3716	0.1199
25	102.9100	5.5000	17990.2800	6290.4367	0.4130	0.1444
26	102.9725	5.5625	18251.6400	7422.9868	0.4190	0.1704
27	103.0350	5.6250	18513.0000	8571.8722	0.4250	0.1968
28	103.0975	5.6875	18774.3600	9737.0926	0.4310	0.2235
29	103.1600	5.7500	19035.7200	10918.6482	0.4370	0.2507
30	103.2225	5.8125	19297.0800	12116.5389	0.4430	0.2782
31	103.2850	5.8750	19558.4400	13330.7648	0.4490	0.3060
32	103.3475	5.9375	19819.8000	14561.3257	0.4550	0.3343
33	103.4100	6.0000	20081.1600	15808.2218	0.4610	0.3629

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| Variable storage data for node | CD-20
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	97.0100	0.0000	4.3560	0.0000	0.0001	0.0000
2	97.5725	0.5625	4.3560	2.4502	0.0001	0.0001
3	98.1350	1.1250	4.3560	4.9005	0.0001	0.0001
4	98.6975	1.6875	4.3560	7.3507	0.0001	0.0002
5	99.2600	2.2500	4.3560	9.8010	0.0001	0.0002
6	99.8225	2.8125	4.3560	12.2512	0.0001	0.0003
7	100.3850	3.3750	4.3560	14.7015	0.0001	0.0003
8	100.9475	3.9375	4.3560	17.1517	0.0001	0.0004
9	101.5100	4.5000	4.3560	19.6020	0.0001	0.0004
10	101.5725	4.5625	450.3015	29.9967	0.0103	0.0007
11	101.6350	4.6250	896.2470	71.2848	0.0206	0.0016
12	101.6975	4.6875	1342.1925	140.7687	0.0308	0.0032
13	101.7600	4.7500	1788.1380	238.2589	0.0411	0.0055
14	101.8225	4.8125	2234.0835	363.6950	0.0513	0.0083
15	101.8850	4.8750	2680.0290	517.0498	0.0615	0.0119
16	101.9475	4.9375	3125.9745	698.3088	0.0718	0.0160
17	102.0100	5.0000	3571.9200	907.4632	0.0820	0.0208
18	102.0725	5.0625	5374.2150	1185.1192	0.1234	0.0272
19	102.1350	5.1250	7176.5100	1575.9744	0.1648	0.0362
20	102.1975	5.1875	8978.8050	2079.7775	0.2061	0.0477
21	102.2600	5.2500	10781.1000	2696.4165	0.2475	0.0619
22	102.3225	5.3125	12583.3950	3425.8318	0.2889	0.0786
23	102.3850	5.3750	14385.6900	4267.9877	0.3302	0.0980
24	102.4475	5.4375	16187.9850	5222.8612	0.3716	0.1199
25	102.5100	5.5000	17990.2800	6290.4367	0.4130	0.1444
26	102.5725	5.5625	18251.6400	7422.9868	0.4190	0.1704
27	102.6350	5.6250	18513.0000	8571.8722	0.4250	0.1968
28	102.6975	5.6875	18774.3600	9737.0926	0.4310	0.2235
29	102.7600	5.7500	19035.7200	10918.6482	0.4370	0.2507
30	102.8225	5.8125	19297.0800	12116.5389	0.4430	0.2782
31	102.8850	5.8750	19558.4400	13330.7648	0.4490	0.3060
32	102.9475	5.9375	19819.8000	14561.3257	0.4550	0.3343
33	103.0100	6.0000	20081.1600	15808.2218	0.4610	0.3629

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| Variable storage data for node | CD-21
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	96.6100	0.0000	4.3560	0.0000	0.0001	0.0000
2	97.1725	0.5625	4.3560	2.4502	0.0001	0.0001
3	97.7350	1.1250	4.3560	4.9005	0.0001	0.0001
4	98.2975	1.6875	4.3560	7.3507	0.0001	0.0002
5	98.8600	2.2500	4.3560	9.8010	0.0001	0.0002
6	99.4225	2.8125	4.3560	12.2512	0.0001	0.0003
7	99.9850	3.3750	4.3560	14.7015	0.0001	0.0003
8	100.5475	3.9375	4.3560	17.1517	0.0001	0.0004
9	101.1100	4.5000	4.3560	19.6020	0.0001	0.0004
10	101.1725	4.5625	450.3015	29.9967	0.0103	0.0007
11	101.2350	4.6250	896.2470	71.2848	0.0206	0.0016
12	101.2975	4.6875	1342.1925	140.7687	0.0308	0.0032
13	101.3600	4.7500	1788.1380	238.2589	0.0411	0.0055
14	101.4225	4.8125	2234.0835	363.6950	0.0513	0.0083
15	101.4850	4.8750	2680.0290	517.0498	0.0615	0.0119
16	101.5475	4.9375	3125.9745	698.3088	0.0718	0.0160

17	101.6100	5.0000	3571.9200	907.4632	0.0820	0.0208
18	101.6725	5.0625	5374.2150	1185.1192	0.1234	0.0272
19	101.7350	5.1250	7176.5100	1575.9744	0.1648	0.0362
20	101.7975	5.1875	8978.8050	2079.7775	0.2061	0.0477
21	101.8600	5.2500	10781.1000	2696.4165	0.2475	0.0619
22	101.9225	5.3125	12583.3950	3425.8318	0.2889	0.0786
23	101.9850	5.3750	14385.6900	4267.9877	0.3302	0.0980
24	102.0475	5.4375	16187.9850	5222.8612	0.3716	0.1199
25	102.1100	5.5000	17990.2800	6290.4367	0.4130	0.1444
26	102.1725	5.5625	18251.6400	7422.9868	0.4190	0.1704
27	102.2350	5.6250	18513.0000	8571.8722	0.4250	0.1968
28	102.2975	5.6875	18774.3600	9737.0926	0.4310	0.2235
29	102.3600	5.7500	19035.7200	10918.6482	0.4370	0.2507
30	102.4225	5.8125	19297.0800	12116.5389	0.4430	0.2782
31	102.4850	5.8750	19558.4400	13330.7648	0.4490	0.3060
32	102.5475	5.9375	19819.8000	14561.3257	0.4550	0.3343
33	102.6100	6.0000	20081.1600	15808.2218	0.4610	0.3629

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| Variable storage data for node | CD-22
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	96.9100	0.0000	4.3560	0.0000	0.0001	0.0000
2	97.4725	0.5625	4.3560	2.4502	0.0001	0.0001
3	98.0350	1.1250	4.3560	4.9005	0.0001	0.0001
4	98.5975	1.6875	4.3560	7.3507	0.0001	0.0002
5	99.1600	2.2500	4.3560	9.8010	0.0001	0.0002
6	99.7225	2.8125	4.3560	12.2512	0.0001	0.0003
7	100.2850	3.3750	4.3560	14.7015	0.0001	0.0003
8	100.8475	3.9375	4.3560	17.1517	0.0001	0.0004
9	101.4100	4.5000	4.3560	19.6020	0.0001	0.0004
10	101.4725	4.5625	450.3015	29.9967	0.0103	0.0007
11	101.5350	4.6250	896.2470	71.2848	0.0206	0.0016
12	101.5975	4.6875	1342.1925	140.7687	0.0308	0.0032
13	101.6600	4.7500	1788.1380	238.2589	0.0411	0.0055
14	101.7225	4.8125	2234.0835	363.6950	0.0513	0.0083
15	101.7850	4.8750	2680.0290	517.0498	0.0615	0.0119
16	101.8475	4.9375	3125.9745	698.3088	0.0718	0.0160
17	101.9100	5.0000	3571.9200	907.4632	0.0820	0.0208
18	101.9725	5.0625	5374.2150	1185.1192	0.1234	0.0272
19	102.0350	5.1250	7176.5100	1575.9744	0.1648	0.0362
20	102.0975	5.1875	8978.8050	2079.7775	0.2061	0.0477
21	102.1600	5.2500	10781.1000	2696.4165	0.2475	0.0619
22	102.2225	5.3125	12583.3950	3425.8318	0.2889	0.0786
23	102.2850	5.3750	14385.6900	4267.9877	0.3302	0.0980
24	102.3475	5.4375	16187.9850	5222.8612	0.3716	0.1199
25	102.4100	5.5000	17990.2800	6290.4367	0.4130	0.1444
26	102.4725	5.5625	18251.6400	7422.9868	0.4190	0.1704
27	102.5350	5.6250	18513.0000	8571.8722	0.4250	0.1968
28	102.5975	5.6875	18774.3600	9737.0926	0.4310	0.2235
29	102.6600	5.7500	19035.7200	10918.6482	0.4370	0.2507
30	102.7225	5.8125	19297.0800	12116.5389	0.4430	0.2782
31	102.7850	5.8750	19558.4400	13330.7648	0.4490	0.3060
32	102.8475	5.9375	19819.8000	14561.3257	0.4550	0.3343
33	102.9100	6.0000	20081.1600	15808.2218	0.4610	0.3629

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| Variable storage data for node | CG-2
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	97.6200	0.0000	4.3560	0.0000	0.0001	0.0000
2	98.0575	0.4375	4.3560	1.9057	0.0001	0.0000
3	98.4950	0.8750	4.3560	3.8115	0.0001	0.0001
4	98.9325	1.3125	4.3560	5.7172	0.0001	0.0001
5	99.3700	1.7500	4.3560	7.6230	0.0001	0.0002
6	99.8075	2.1875	4.3560	9.5287	0.0001	0.0002
7	100.2450	2.6250	4.3560	11.4345	0.0001	0.0003
8	100.6825	3.0625	4.3560	13.3402	0.0001	0.0003
9	101.1200	3.5000	4.3560	15.2460	0.0001	0.0003
10	101.1825	3.5625	450.3015	25.6407	0.0103	0.0006
11	101.2450	3.6250	896.2470	66.9288	0.0206	0.0015
12	101.3075	3.6875	1342.1925	136.4127	0.0308	0.0031
13	101.3700	3.7500	1788.1380	233.9029	0.0411	0.0054
14	101.4325	3.8125	2234.0835	359.3390	0.0513	0.0082
15	101.4950	3.8750	2680.0290	512.6938	0.0615	0.0118
16	101.5575	3.9375	3125.9745	693.9528	0.0718	0.0159
17	101.6200	4.0000	3571.9200	903.1072	0.0820	0.0207
18	101.6825	4.0625	5374.2150	1180.7632	0.1234	0.0271
19	101.7450	4.1250	7176.5100	1571.6184	0.1648	0.0361
20	101.8075	4.1875	8978.8050	2075.4215	0.2061	0.0476
21	101.8700	4.2500	10781.1000	2692.0605	0.2475	0.0618
22	101.9325	4.3125	12583.3950	3421.4758	0.2889	0.0785
23	101.9950	4.3750	14385.6900	4263.6317	0.3302	0.0979
24	102.0575	4.4375	16187.9850	5218.5052	0.3716	0.1198
25	102.1200	4.5000	17990.2800	6286.0807	0.4130	0.1443
26	102.1825	4.5625	18251.6400	7418.6308	0.4190	0.1703
27	102.2450	4.6250	18513.0000	8567.5162	0.4250	0.1967
28	102.3075	4.6875	18774.3600	9732.7366	0.4310	0.2234
29	102.3700	4.7500	19035.7200	10914.2922	0.4370	0.2506
30	102.4325	4.8125	19297.0800	12112.1829	0.4430	0.2781
31	102.4950	4.8750	19558.4400	13326.4088	0.4490	0.3059
32	102.5575	4.9375	19819.8000	14556.9697	0.4550	0.3342
33	102.6200	5.0000	20081.1600	15803.8658	0.4610	0.3628

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| Variable storage data for node | CG-4
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	95.9100	0.0000	4.3560	0.0000	0.0001	0.0000
2	96.6225	0.7125	4.3560	3.1037	0.0001	0.0001
3	97.3350	1.4250	4.3560	6.2073	0.0001	0.0001
4	98.0475	2.1375	4.3560	9.3110	0.0001	0.0002
5	98.7600	2.8500	4.3560	12.4146	0.0001	0.0003
6	99.4725	3.5625	4.3560	15.5183	0.0001	0.0004
7	100.1850	4.2750	4.3560	18.6219	0.0001	0.0004
8	100.8975	4.9875	4.3560	21.7255	0.0001	0.0005
9	101.6100	5.7000	4.3560	24.8292	0.0001	0.0006
10	101.6725	5.7625	450.3015	35.2239	0.0103	0.0008
11	101.7350	5.8250	896.2470	76.5120	0.0206	0.0018
12	101.7975	5.8875	1342.1925	145.9959	0.0308	0.0034
13	101.8600	5.9500	1788.1380	243.4861	0.0411	0.0056
14	101.9225	6.0125	2234.0835	368.9222	0.0513	0.0085
15	101.9850	6.0750	2680.0290	522.2770	0.0615	0.0120
16	102.0475	6.1375	3125.9745	703.5360	0.0718	0.0162
17	102.1100	6.2000	3571.9200	912.6904	0.0820	0.0210
18	102.1725	6.2625	5374.2150	1190.3464	0.1234	0.0273
19	102.2350	6.3250	7176.5100	1581.2016	0.1648	0.0363
20	102.2975	6.3875	8978.8050	2085.0047	0.2061	0.0479
21	102.3600	6.4500	10781.1000	2701.6437	0.2475	0.0620
22	102.4225	6.5125	12583.3950	3431.0590	0.2889	0.0788
23	102.4850	6.5750	14385.6900	4273.2149	0.3302	0.0981
24	102.5475	6.6375	16187.9850	5228.0884	0.3716	0.1200

25	102.6100	6.7000	17990.2800	6295.6639	0.4130	0.1445
26	102.6725	6.7625	18251.6400	7428.2140	0.4190	0.1705
27	102.7350	6.8250	18513.0000	8577.0994	0.4250	0.1969
28	102.7975	6.8875	18774.3600	9742.3198	0.4310	0.2237
29	102.8600	6.9500	19035.7200	10923.8754	0.4370	0.2508
30	102.9225	7.0125	19297.0800	12121.7661	0.4430	0.2783
31	102.9850	7.0750	19558.4400	13335.9920	0.4490	0.3062
32	103.0475	7.1375	19819.8000	14566.5529	0.4550	0.3344
33	103.1100	7.2000	20081.1600	15813.4490	0.4610	0.3630
34	103.1100	7.2000	20081.1600	15813.4490	0.4610	0.3630

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| Variable storage data for node | CG-3
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	95.5900	0.0000	4.3560	0.0000	0.0001	0.0000
2	96.3575	0.7675	4.3560	3.3432	0.0001	0.0001
3	97.1250	1.5350	4.3560	6.6865	0.0001	0.0002
4	97.8925	2.3025	4.3560	10.0297	0.0001	0.0002
5	98.6600	3.0700	4.3560	13.3729	0.0001	0.0003
6	99.4275	3.8375	4.3560	16.7161	0.0001	0.0004
7	100.1950	4.6050	4.3560	20.0594	0.0001	0.0005
8	100.9625	5.3725	4.3560	23.4026	0.0001	0.0005
9	101.7300	6.1400	4.3560	26.7458	0.0001	0.0006
10	101.7925	6.2025	450.3015	37.1406	0.0103	0.0009
11	101.8550	6.2650	896.2470	78.4287	0.0206	0.0018
12	101.9175	6.3275	1342.1925	147.9125	0.0308	0.0034
13	101.9800	6.3900	1788.1380	245.4027	0.0411	0.0056
14	102.0425	6.4525	2234.0835	370.8389	0.0513	0.0085
15	102.1050	6.5150	2680.0290	524.1937	0.0615	0.0120
16	102.1675	6.5775	3125.9745	705.4526	0.0718	0.0162
17	102.2300	6.6400	3571.9200	914.6070	0.0820	0.0210
18	102.2925	6.7025	5374.2150	1192.2630	0.1234	0.0274
19	102.3550	6.7650	7176.5100	1583.1182	0.1648	0.0363
20	102.4175	6.8275	8978.8050	2086.9213	0.2061	0.0479
21	102.4800	6.8900	10781.1000	2703.5604	0.2475	0.0621
22	102.5425	6.9525	12583.3950	3432.9757	0.2889	0.0788
23	102.6050	7.0150	14385.6900	4275.1315	0.3302	0.0981
24	102.6675	7.0775	16187.9850	5230.0051	0.3716	0.1201
25	102.7300	7.1400	17990.2800	6297.5805	0.4130	0.1446
26	102.7925	7.2025	18251.6400	7430.1307	0.4190	0.1706
27	102.8550	7.2650	18513.0000	8579.0160	0.4250	0.1969
28	102.9175	7.3275	18774.3600	9744.2365	0.4310	0.2237
29	102.9800	7.3900	19035.7200	10925.7920	0.4370	0.2508
30	103.0425	7.4525	19297.0800	12123.6828	0.4430	0.2783
31	103.1050	7.5150	19558.4400	13337.9086	0.4490	0.3062
32	103.1675	7.5775	19819.8000	14568.4696	0.4550	0.3344
33	103.2300	7.6400	20081.1600	15815.3657	0.4610	0.3631
34	103.2300	7.6400	20081.1600	15815.3657	0.4610	0.3631

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| Variable storage data for node | CH-1
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	96.5000	0.0000	4.3560	0.0000	0.0001	0.0000
2	98.6800	2.1800	4.3560	9.4961	0.0001	0.0002
3	100.8600	4.3600	4.3560	18.9922	0.0001	0.0004
4	103.0400	6.5400	4.3560	28.4882	0.0001	0.0007
5	105.2200	8.7200	4.3560	37.9843	0.0001	0.0009
6	107.4000	10.9000	4.3560	47.4804	0.0001	0.0011
7	109.5800	13.0800	4.3560	56.9765	0.0001	0.0013
8	111.7600	15.2600	4.3560	66.4726	0.0001	0.0015
9	113.9400	17.4400	4.3560	75.9686	0.0001	0.0017
10	114.0025	17.5025	450.3015	86.3634	0.0103	0.0020
11	114.0650	17.5650	896.2470	127.6515	0.0206	0.0029
12	114.1275	17.6275	1342.1925	197.1353	0.0308	0.0045
13	114.1900	17.6900	1788.1380	294.6255	0.0411	0.0068
14	114.2525	17.7525	2234.0835	420.0617	0.0513	0.0096
15	114.3150	17.8150	2680.0290	573.4165	0.0615	0.0132
16	114.3775	17.8775	3125.9745	754.6754	0.0718	0.0173
17	114.4400	17.9400	3571.9200	963.8298	0.0820	0.0221
18	114.5025	18.0025	5374.2150	1241.4858	0.1234	0.0285
19	114.5650	18.0650	7176.5100	1632.3410	0.1648	0.0375
20	114.6275	18.1275	8978.8050	2136.1441	0.2061	0.0490
21	114.6900	18.1900	10781.1000	2752.7832	0.2475	0.0632
22	114.7525	18.2525	12583.3950	3482.1985	0.2889	0.0799
23	114.8150	18.3150	14385.6900	4324.3543	0.3302	0.0993
24	114.8775	18.3775	16187.9850	5279.2279	0.3716	0.1212
25	114.9400	18.4400	17990.2800	6346.8033	0.4130	0.1457
26	115.0025	18.5025	18251.6400	7479.3535	0.4190	0.1717
27	115.0650	18.5650	18513.0000	8628.2388	0.4250	0.1981
28	115.1275	18.6275	18774.3600	9793.4593	0.4310	0.2248
29	115.1900	18.6900	19035.7200	10975.0148	0.4370	0.2520
30	115.2525	18.7525	19297.0800	12172.9056	0.4430	0.2795
31	115.3150	18.8150	19558.4400	13387.1314	0.4490	0.3073
32	115.3775	18.8775	19819.8000	14617.6924	0.4550	0.3356
33	115.4400	18.9400	20081.1600	15864.5885	0.4610	0.3642

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| Variable storage data for node | CK-1
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	97.9100	0.0000	4.3560	0.0000	0.0001	0.0000
2	98.3475	0.4375	4.3560	1.9057	0.0001	0.0000
3	98.7850	0.8750	4.3560	3.8115	0.0001	0.0001
4	99.2225	1.3125	4.3560	5.7172	0.0001	0.0001
5	99.6600	1.7500	4.3560	7.6230	0.0001	0.0002
6	100.0975	2.1875	4.3560	9.5287	0.0001	0.0002
7	100.5350	2.6250	4.3560	11.4345	0.0001	0.0003
8	100.9725	3.0625	4.3560	13.3402	0.0001	0.0003
9	101.4100	3.5000	4.3560	15.2460	0.0001	0.0003
10	101.4725	3.5625	450.3015	25.6407	0.0103	0.0006
11	101.5350	3.6250	896.2470	66.9288	0.0206	0.0015
12	101.5975	3.6875	1342.1925	136.4127	0.0308	0.0031
13	101.6600	3.7500	1788.1380	233.9029	0.0411	0.0054
14	101.7225	3.8125	2234.0835	359.3390	0.0513	0.0082
15	101.7850	3.8750	2680.0290	512.6938	0.0615	0.0118
16	101.8475	3.9375	3125.9745	693.9528	0.0718	0.0159
17	101.9100	4.0000	3571.9200	903.1072	0.0820	0.0207
18	101.9725	4.0625	5374.2150	1180.7632	0.1234	0.0271
19	102.0350	4.1250	7176.5100	1571.6184	0.1648	0.0361
20	102.0975	4.1875	8978.8050	2075.4215	0.2061	0.0476
21	102.1600	4.2500	10781.1000	2692.0605	0.2475	0.0618
22	102.2225	4.3125	12583.3950	3421.4758	0.2889	0.0785
23	102.2850	4.3750	14385.6900	4263.6317	0.3302	0.0979
24	102.3475	4.4375	16187.9850	5218.5052	0.3716	0.1198
25	102.4100	4.5000	17990.2800	6286.0807	0.4130	0.1443
26	102.4725	4.5625	18251.6400	7418.6308	0.4190	0.1703
27	102.5350	4.6250	18513.0000	8567.5162	0.4250	0.1967
28	102.5975	4.6875	18774.3600	9732.7366	0.4310	0.2234
29	102.6600	4.7500	19035.7200	10914.2922	0.4370	0.2506
30	102.7225	4.8125	19297.0800	12112.1829	0.4430	0.2781

31	102.7850	4.8750	19558.4400	13326.4088	0.4490	0.3059
32	102.8475	4.9375	19819.8000	14556.9697	0.4550	0.3342
33	102.9100	5.0000	20081.1600	15803.8658	0.4610	0.3628

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| Variable storage data for node | CK-2
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	96.8100	0.0000	4.3560	0.0000	0.0001	0.0000
2	97.4350	0.6250	4.3560	2.7225	0.0001	0.0001
3	98.0600	1.2500	4.3560	5.4450	0.0001	0.0001
4	98.6850	1.8750	4.3560	8.1675	0.0001	0.0002
5	99.3100	2.5000	4.3560	10.8900	0.0001	0.0002
6	99.9350	3.1250	4.3560	13.6125	0.0001	0.0003
7	100.5600	3.7500	4.3560	16.3350	0.0001	0.0004
8	101.1850	4.3750	4.3560	19.0575	0.0001	0.0004
9	101.8100	5.0000	4.3560	21.7800	0.0001	0.0005
10	101.8725	5.0625	450.3015	32.1747	0.0103	0.0007
11	101.9350	5.1250	896.2470	73.4628	0.0206	0.0017
12	101.9975	5.1875	1342.1925	142.9467	0.0308	0.0033
13	102.0600	5.2500	1788.1380	240.4369	0.0411	0.0055
14	102.1225	5.3125	2234.0835	365.8730	0.0513	0.0084
15	102.1850	5.3750	2680.0290	519.2278	0.0615	0.0119
16	102.2475	5.4375	3125.9745	700.4868	0.0718	0.0161
17	102.3100	5.5000	3571.9200	909.6412	0.0820	0.0209
18	102.3725	5.5625	5374.2150	1187.2972	0.1234	0.0273
19	102.4350	5.6250	7176.5100	1578.1524	0.1648	0.0362
20	102.4975	5.6875	8978.8050	2081.9555	0.2061	0.0478
21	102.5600	5.7500	10781.1000	2698.5945	0.2475	0.0620
22	102.6225	5.8125	12583.3950	3428.0098	0.2889	0.0787
23	102.6850	5.8750	14385.6900	4270.1657	0.3302	0.0980
24	102.7475	5.9375	16187.9850	5225.0392	0.3716	0.1200
25	102.8100	6.0000	17990.2800	6292.6147	0.4130	0.1445
26	102.8725	6.0625	18251.6400	7425.1648	0.4190	0.1705
27	102.9350	6.1250	18513.0000	8574.0502	0.4250	0.1968
28	102.9975	6.1875	18774.3600	9739.2706	0.4310	0.2236
29	103.0600	6.2500	19035.7200	10920.8262	0.4370	0.2507
30	103.1225	6.3125	19297.0800	12118.7169	0.4430	0.2782
31	103.1850	6.3750	19558.4400	13332.9428	0.4490	0.3061
32	103.2475	6.4375	19819.8000	14563.5037	0.4550	0.3343
33	103.3100	6.5000	20081.1600	15810.3998	0.4610	0.3630

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| Variable storage data for node | CD-27
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	96.4100	0.0000	4.3560	0.0000	0.0001	0.0000
2	96.9725	0.5625	4.3560	2.4502	0.0001	0.0001
3	97.5350	1.1250	4.3560	4.9005	0.0001	0.0001
4	98.0975	1.6875	4.3560	7.3507	0.0001	0.0002
5	98.6600	2.2500	4.3560	9.8010	0.0001	0.0002
6	99.2225	2.8125	4.3560	12.2512	0.0001	0.0003
7	99.7850	3.3750	4.3560	14.7015	0.0001	0.0003
8	100.3475	3.9375	4.3560	17.1517	0.0001	0.0004
9	100.9100	4.5000	4.3560	19.6020	0.0001	0.0004
10	100.9725	4.5625	450.3015	29.9967	0.0103	0.0007
11	101.0350	4.6250	896.2470	71.2848	0.0206	0.0016
12	101.0975	4.6875	1342.1925	140.7687	0.0308	0.0032
13	101.1600	4.7500	1788.1380	238.2589	0.0411	0.0055
14	101.2225	4.8125	2234.0835	363.6950	0.0513	0.0083
15	101.2850	4.8750	2680.0290	517.0498	0.0615	0.0119
16	101.3475	4.9375	3125.9745	698.3088	0.0718	0.0160
17	101.4100	5.0000	3571.9200	907.4632	0.0820	0.0208
18	101.4725	5.0625	5374.2150	1185.1192	0.1234	0.0272
19	101.5350	5.1250	7176.5100	1575.9744	0.1648	0.0362
20	101.5975	5.1875	8978.8050	2079.7775	0.2061	0.0477
21	101.6600	5.2500	10781.1000	2696.4165	0.2475	0.0619
22	101.7225	5.3125	12583.3950	3425.8318	0.2889	0.0786
23	101.7850	5.3750	14385.6900	4267.9877	0.3302	0.0980
24	101.8475	5.4375	16187.9850	5222.8612	0.3716	0.1199
25	101.9100	5.5000	17990.2800	6290.4367	0.4130	0.1444
26	101.9725	5.5625	18251.6400	7422.9868	0.4190	0.1704
27	102.0350	5.6250	18513.0000	8571.8722	0.4250	0.1968
28	102.0975	5.6875	18774.3600	9737.0926	0.4310	0.2235
29	102.1600	5.7500	19035.7200	10918.6482	0.4370	0.2507
30	102.2225	5.8125	19297.0800	12116.5389	0.4430	0.2782
31	102.2850	5.8750	19558.4400	13330.7648	0.4490	0.3060
32	102.3475	5.9375	19819.8000	14561.3257	0.4550	0.3343
33	102.4100	6.0000	20081.1600	15808.2218	0.4610	0.3629

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| Variable storage data for node | CD-28
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	96.7100	0.0000	4.3560	0.0000	0.0001	0.0000
2	97.2725	0.5625	4.3560	2.4502	0.0001	0.0001
3	97.8350	1.1250	4.3560	4.9005	0.0001	0.0001
4	98.3975	1.6875	4.3560	7.3507	0.0001	0.0002
5	98.9600	2.2500	4.3560	9.8010	0.0001	0.0002
6	99.5225	2.8125	4.3560	12.2512	0.0001	0.0003
7	100.0850	3.3750	4.3560	14.7015	0.0001	0.0003
8	100.6475	3.9375	4.3560	17.1517	0.0001	0.0004
9	101.2100	4.5000	4.3560	19.6020	0.0001	0.0004
10	101.2725	4.5625	450.3015	29.9967	0.0103	0.0007
11	101.3350	4.6250	896.2470	71.2848	0.0206	0.0016
12	101.3975	4.6875	1342.1925	140.7687	0.0308	0.0032
13	101.4600	4.7500	1788.1380	238.2589	0.0411	0.0055
14	101.5225	4.8125	2234.0835	363.6950	0.0513	0.0083
15	101.5850	4.8750	2680.0290	517.0498	0.0615	0.0119
16	101.6475	4.9375	3125.9745	698.3088	0.0718	0.0160
17	101.7100	5.0000	3571.9200	907.4632	0.0820	0.0208
18	101.7725	5.0625	5374.2150	1185.1192	0.1234	0.0272
19	101.8350	5.1250	7176.5100	1575.9744	0.1648	0.0362
20	101.8975	5.1875	8978.8050	2079.7775	0.2061	0.0477
21	101.9600	5.2500	10781.1000	2696.4165	0.2475	0.0619
22	102.0225	5.3125	12583.3950	3425.8318	0.2889	0.0786
23	102.0850	5.3750	14385.6900	4267.9877	0.3302	0.0980
24	102.1475	5.4375	16187.9850	5222.8612	0.3716	0.1199
25	102.2100	5.5000	17990.2800	6290.4367	0.4130	0.1444
26	102.2725	5.5625	18251.6400	7422.9868	0.4190	0.1704
27	102.3350	5.6250	18513.0000	8571.8722	0.4250	0.1968
28	102.3975	5.6875	18774.3600	9737.0926	0.4310	0.2235
29	102.4600	5.7500	19035.7200	10918.6482	0.4370	0.2507
30	102.5225	5.8125	19297.0800	12116.5389	0.4430	0.2782
31	102.5850	5.8750	19558.4400	13330.7648	0.4490	0.3060
32	102.6475	5.9375	19819.8000	14561.3257	0.4550	0.3343
33	102.7100	6.0000	20081.1600	15808.2218	0.4610	0.3629

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| Variable storage data for node | CL-8
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Data	Elevation	Depth	Area	Volume	Area	Volume

Point	ft	ft	ft^2	ft^3	acres	ac-ft
1	95.9500	0.0000	4.3560	0.0000	0.0001	0.0000
2	96.5900	0.6400	4.3560	2.7878	0.0001	0.0001
3	97.2300	1.2800	4.3560	5.5757	0.0001	0.0001
4	97.8700	1.9200	4.3560	8.3635	0.0001	0.0002
5	98.5100	2.5600	4.3560	11.1514	0.0001	0.0003
6	99.1500	3.2000	4.3560	13.9392	0.0001	0.0003
7	99.7900	3.8400	4.3560	16.7270	0.0001	0.0004
8	100.4300	4.4800	4.3560	19.5149	0.0001	0.0004
9	101.0700	5.1200	4.3560	22.3027	0.0001	0.0005
10	101.1325	5.1825	450.3015	32.6974	0.0103	0.0008
11	101.1950	5.2450	896.2470	73.9855	0.0206	0.0017
12	101.2575	5.3075	1342.1925	143.4694	0.0308	0.0033
13	101.3200	5.3700	1788.1380	240.9596	0.0411	0.0055
14	101.3825	5.4325	2234.0835	366.3957	0.0513	0.0084
15	101.4450	5.4950	2680.0290	519.7505	0.0615	0.0119
16	101.5075	5.5575	3125.9745	701.0095	0.0718	0.0161
17	101.5700	5.6200	3571.9200	910.1639	0.0820	0.0209
18	101.6325	5.6825	5374.2150	1187.8199	0.1234	0.0273
19	101.6950	5.7450	7176.5100	1578.6751	0.1648	0.0362
20	101.7575	5.8075	8978.8050	2082.4782	0.2061	0.0478
21	101.8200	5.8700	10781.1000	2699.1172	0.2475	0.0620
22	101.8825	5.9325	12583.3950	3428.5325	0.2889	0.0787
23	101.9450	5.9950	14385.6900	4270.6884	0.3302	0.0980
24	102.0075	6.0575	16187.9850	5225.5619	0.3716	0.1200
25	102.0700	6.1200	17990.2800	6293.1374	0.4130	0.1445
26	102.1325	6.1825	18251.6400	7425.6876	0.4190	0.1705
27	102.1950	6.2450	18513.0000	8574.5729	0.4250	0.1968
28	102.2575	6.3075	18774.3600	9739.7933	0.4310	0.2236
29	102.3200	6.3700	19035.7200	10921.3489	0.4370	0.2507
30	102.3825	6.4325	19297.0800	12119.2396	0.4430	0.2782
31	102.4450	6.4950	19558.4400	13333.4655	0.4490	0.3061
32	102.5075	6.5575	19819.8000	14564.0265	0.4550	0.3343
33	102.5700	6.6200	20081.1600	15810.9225	0.4610	0.3630

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| Variable storage data for node | CL-3
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	96.1900	0.0000	4.3560	0.0000	0.0001	0.0000
2	96.7525	0.5625	4.3560	2.4502	0.0001	0.0001
3	97.3150	1.1250	4.3560	4.9005	0.0001	0.0001
4	97.8775	1.6875	4.3560	7.3507	0.0001	0.0002
5	98.4400	2.2500	4.3560	9.8010	0.0001	0.0002
6	99.0025	2.8125	4.3560	12.2512	0.0001	0.0003
7	99.5650	3.3750	4.3560	14.7015	0.0001	0.0003
8	100.1275	3.9375	4.3560	17.1517	0.0001	0.0004
9	100.6900	4.5000	4.3560	19.6020	0.0001	0.0004
10	100.7525	4.5625	450.3015	29.9967	0.0103	0.0007
11	100.8150	4.6250	896.2470	71.2848	0.0206	0.0016
12	100.8775	4.6875	1342.1925	140.7687	0.0308	0.0032
13	100.9400	4.7500	1788.1380	238.2589	0.0411	0.0055
14	101.0025	4.8125	2234.0835	363.6950	0.0513	0.0083
15	101.0650	4.8750	2680.0290	517.0498	0.0615	0.0119
16	101.1275	4.9375	3125.9745	698.3088	0.0718	0.0160
17	101.1900	5.0000	3571.9200	907.4632	0.0820	0.0208
18	101.2525	5.0625	5374.2150	1185.1192	0.1234	0.0272
19	101.3150	5.1250	7176.5100	1575.9744	0.1648	0.0362
20	101.3775	5.1875	8978.8050	2079.7775	0.2061	0.0477
21	101.4400	5.2500	10781.1000	2696.4165	0.2475	0.0619
22	101.5025	5.3125	12583.3950	3425.8318	0.2889	0.0786
23	101.5650	5.3750	14385.6900	4267.9877	0.3302	0.0980
24	101.6275	5.4375	16187.9850	5222.8612	0.3716	0.1199
25	101.6900	5.5000	17990.2800	6290.4367	0.4130	0.1444
26	101.7525	5.5625	18251.6400	7422.9868	0.4190	0.1704
27	101.8150	5.6250	18513.0000	8571.8722	0.4250	0.1968
28	101.8775	5.6875	18774.3600	9737.0926	0.4310	0.2235
29	101.9400	5.7500	19035.7200	10918.6482	0.4370	0.2507
30	102.0025	5.8125	19297.0800	12116.5389	0.4430	0.2782
31	102.0650	5.8750	19558.4400	13330.7648	0.4490	0.3060
32	102.1275	5.9375	19819.8000	14561.3257	0.4550	0.3343
33	102.1900	6.0000	20081.1600	15808.2218	0.4610	0.3629

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| Variable storage data for node | CL-2
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	96.2600	0.0000	4.3560	0.0000	0.0001	0.0000
2	96.8225	0.5625	4.3560	2.4502	0.0001	0.0001
3	97.3850	1.1250	4.3560	4.9005	0.0001	0.0001
4	97.9475	1.6875	4.3560	7.3507	0.0001	0.0002
5	98.5100	2.2500	4.3560	9.8010	0.0001	0.0002
6	99.0725	2.8125	4.3560	12.2512	0.0001	0.0003
7	99.6350	3.3750	4.3560	14.7015	0.0001	0.0003
8	100.1975	3.9375	4.3560	17.1517	0.0001	0.0004
9	100.7600	4.5000	4.3560	19.6020	0.0001	0.0004
10	100.8225	4.5625	450.3015	29.9967	0.0103	0.0007
11	100.8850	4.6250	896.2470	71.2848	0.0206	0.0016
12	100.9475	4.6875	1342.1925	140.7687	0.0308	0.0032
13	101.0100	4.7500	1788.1380	238.2589	0.0411	0.0055
14	101.0725	4.8125	2234.0835	363.6950	0.0513	0.0083
15	101.1350	4.8750	2680.0290	517.0498	0.0615	0.0119
16	101.1975	4.9375	3125.9745	698.3088	0.0718	0.0160
17	101.2600	5.0000	3571.9200	907.4632	0.0820	0.0208
18	101.3225	5.0625	5374.2150	1185.1192	0.1234	0.0272
19	101.3850	5.1250	7176.5100	1575.9744	0.1648	0.0362
20	101.4475	5.1875	8978.8050	2079.7775	0.2061	0.0477
21	101.5100	5.2500	10781.1000	2696.4165	0.2475	0.0619
22	101.5725	5.3125	12583.3950	3425.8318	0.2889	0.0786
23	101.6350	5.3750	14385.6900	4267.9877	0.3302	0.0980
24	101.6975	5.4375	16187.9850	5222.8612	0.3716	0.1199
25	101.7600	5.5000	17990.2800	6290.4367	0.4130	0.1444
26	101.8225	5.5625	18251.6400	7422.9868	0.4190	0.1704
27	101.8850	5.6250	18513.0000	8571.8722	0.4250	0.1968
28	101.9475	5.6875	18774.3600	9737.0926	0.4310	0.2235
29	102.0100	5.7500	19035.7200	10918.6482	0.4370	0.2507
30	102.0725	5.8125	19297.0800	12116.5389	0.4430	0.2782
31	102.1350	5.8750	19558.4400	13330.7648	0.4490	0.3060
32	102.1975	5.9375	19819.8000	14561.3257	0.4550	0.3343
33	102.2600	6.0000	20081.1600	15808.2218	0.4610	0.3629

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| Variable storage data for node | CL-9
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	97.2400	0.0000	4.3560	0.0000	0.0001	0.0000
2	97.7188	0.4788	4.3560	2.0854	0.0001	0.0000
3	98.1975	0.9575	4.3560	4.1709	0.0001	0.0001
4	98.6762	1.4363	4.3560	6.2563	0.0001	0.0001
5	99.1550	1.9150	4.3560	8.3417	0.0001	0.0002
6	99.6337	2.3937	4.3560	10.4272	0.0001	0.0002

7	100.1125	2.8725	4.3560	12.5126	0.0001	0.0003
8	100.5913	3.3513	4.3560	14.5980	0.0001	0.0003
9	101.0700	3.8300	4.3560	16.6835	0.0001	0.0004
10	101.1325	3.8925	450.3015	27.0782	0.0103	0.0006
11	101.1950	3.9550	896.2470	68.3663	0.0206	0.0016
12	101.2575	4.0175	1342.1925	137.8501	0.0308	0.0032
13	101.3200	4.0800	1788.1380	235.3404	0.0411	0.0054
14	101.3825	4.1425	2234.0835	360.7765	0.0513	0.0083
15	101.4450	4.2050	2680.0290	514.1313	0.0615	0.0118
16	101.5075	4.2675	3125.9745	695.3903	0.0718	0.0160
17	101.5700	4.3300	3571.9200	904.5446	0.0820	0.0208
18	101.6325	4.3925	5374.2150	1182.2007	0.1234	0.0271
19	101.6950	4.4550	7176.5100	1573.0558	0.1648	0.0361
20	101.7575	4.5175	8978.8050	2076.8589	0.2061	0.0477
21	101.8200	4.5800	10781.1000	2693.4980	0.2475	0.0618
22	101.8825	4.6425	12583.3950	3422.9133	0.2889	0.0786
23	101.9450	4.7050	14385.6900	4265.0692	0.3302	0.0979
24	102.0075	4.7675	16187.9850	5219.9427	0.3716	0.1198
25	102.0700	4.8300	17990.2800	6287.5181	0.4130	0.1443
26	102.1325	4.8925	18251.6400	7420.0683	0.4190	0.1703
27	102.1950	4.9550	18513.0000	8568.9536	0.4250	0.1967
28	102.2575	5.0175	18774.3600	9734.1741	0.4310	0.2235
29	102.3200	5.0800	19035.7200	10915.7297	0.4370	0.2506
30	102.3825	5.1425	19297.0800	12113.6204	0.4430	0.2781
31	102.4450	5.2050	19558.4400	13327.8463	0.4490	0.3060
32	102.5075	5.2675	19819.8000	14558.4072	0.4550	0.3342
33	102.5700	5.3300	20081.1600	15805.3033	0.4610	0.3628

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| Variable storage data for node | CD-30
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	95.6000	0.0000	4.3560	0.0000	0.0001	0.0000
2	96.1625	0.5625	4.3560	2.4502	0.0001	0.0001
3	96.7250	1.1250	4.3560	4.9005	0.0001	0.0001
4	97.2875	1.6875	4.3560	7.3507	0.0001	0.0002
5	97.8500	2.2500	4.3560	9.8010	0.0001	0.0002
6	98.4125	2.8125	4.3560	12.2512	0.0001	0.0003
7	98.9750	3.3750	4.3560	14.7015	0.0001	0.0003
8	99.5375	3.9375	4.3560	17.1517	0.0001	0.0004
9	100.1000	4.5000	4.3560	19.6020	0.0001	0.0004
10	100.1625	4.5625	450.3015	29.9967	0.0103	0.0007
11	100.2250	4.6250	896.2470	71.2848	0.0206	0.0016
12	100.2875	4.6875	1342.1925	140.7687	0.0308	0.0032
13	100.3500	4.7500	1788.1380	238.2589	0.0411	0.0055
14	100.4125	4.8125	2234.0835	363.6950	0.0513	0.0083
15	100.4750	4.8750	2680.0290	517.0498	0.0615	0.0119
16	100.5375	4.9375	3125.9745	698.3088	0.0718	0.0160
17	100.6000	5.0000	3571.9200	907.4632	0.0820	0.0208
18	100.6625	5.0625	5374.2150	1185.1192	0.1234	0.0272
19	100.7250	5.1250	7176.5100	1575.9744	0.1648	0.0362
20	100.7875	5.1875	8978.8050	2079.7775	0.2061	0.0477
21	100.8500	5.2500	10781.1000	2696.4165	0.2475	0.0619
22	100.9125	5.3125	12583.3950	3425.8318	0.2889	0.0786
23	100.9750	5.3750	14385.6900	4267.9877	0.3302	0.0980
24	101.0375	5.4375	16187.9850	5222.8612	0.3716	0.1199
25	101.1000	5.5000	17990.2800	6290.4367	0.4130	0.1444
26	101.1625	5.5625	18251.6400	7422.9868	0.4190	0.1704
27	101.2250	5.6250	18513.0000	8571.8722	0.4250	0.1968
28	101.2875	5.6875	18774.3600	9737.0926	0.4310	0.2235
29	101.3500	5.7500	19035.7200	10918.6482	0.4370	0.2507
30	101.4125	5.8125	19297.0800	12116.5389	0.4430	0.2782
31	101.4750	5.8750	19558.4400	13330.7648	0.4490	0.3060
32	101.5375	5.9375	19819.8000	14561.3257	0.4550	0.3343
33	101.6000	6.0000	20081.1600	15808.2218	0.4610	0.3629

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| Variable storage data for node | CR-16
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	94.3200	0.0000	4.3560	0.0000	0.0001	0.0000
2	95.2150	0.8950	4.3560	3.8986	0.0001	0.0001
3	96.1100	1.7900	4.3560	7.7972	0.0001	0.0002
4	97.0050	2.6850	4.3560	11.6959	0.0001	0.0003
5	97.9000	3.5800	4.3560	15.5945	0.0001	0.0004
6	98.7950	4.4750	4.3560	19.4931	0.0001	0.0004
7	99.6900	5.3700	4.3560	23.3917	0.0001	0.0005
8	100.5850	6.2650	4.3560	27.2903	0.0001	0.0006
9	101.4800	7.1600	4.3560	31.1890	0.0001	0.0007
10	101.5425	7.2225	450.3015	41.5837	0.0103	0.0010
11	101.6050	7.2850	896.2470	82.8718	0.0206	0.0019
12	101.6675	7.3475	1342.1925	152.3556	0.0308	0.0035
13	101.7300	7.4100	1788.1380	249.8459	0.0411	0.0057
14	101.7925	7.4725	2234.0835	375.2820	0.0513	0.0086
15	101.8550	7.5350	2680.0290	528.6368	0.0615	0.0121
16	101.9175	7.5975	3125.9745	709.8957	0.0718	0.0163
17	101.9800	7.6600	3571.9200	919.0501	0.0820	0.0211
18	102.0425	7.7225	5374.2150	1196.7062	0.1234	0.0275
19	102.1050	7.7850	7176.5100	1587.5613	0.1648	0.0364
20	102.1675	7.8475	8978.8050	2091.3644	0.2061	0.0480
21	102.2300	7.9100	10781.1000	2708.0035	0.2475	0.0622
22	102.2925	7.9725	12583.3950	3437.4188	0.2889	0.0789
23	102.3550	8.0350	14385.6900	4279.5747	0.3302	0.0982
24	102.4175	8.0975	16187.9850	5234.4482	0.3716	0.1202
25	102.4800	8.1600	17990.2800	6302.0236	0.4130	0.1447
26	102.5425	8.2225	18251.6400	7434.5738	0.4190	0.1707
27	102.6050	8.2850	18513.0000	8583.4591	0.4250	0.1970
28	102.6675	8.3475	18774.3600	9748.6796	0.4310	0.2238
29	102.7300	8.4100	19035.7200	10930.2352	0.4370	0.2509
30	102.7925	8.4725	19297.0800	12128.1259	0.4430	0.2784
31	102.8550	8.5350	19558.4400	13342.3517	0.4490	0.3063
32	102.9175	8.5975	19819.8000	14572.9127	0.4550	0.3345
33	102.9800	8.6600	20081.1600	15819.8088	0.4610	0.3632
34	102.9800	8.6600	20081.1600	15819.8088	0.4610	0.3632

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| Variable storage data for node | CR-18
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	91.8000	0.0000	4.3560	0.0000	0.0001	0.0000
2	93.0438	1.2437	4.3560	5.4178	0.0001	0.0001
3	94.2875	2.4875	4.3560	10.8355	0.0001	0.0002
4	95.5312	3.7312	4.3560	16.2533	0.0001	0.0004
5	96.7750	4.9750	4.3560	21.6711	0.0001	0.0005
6	98.0187	6.2188	4.3560	27.0889	0.0001	0.0006
7	99.2625	7.4625	4.3560	32.5066	0.0001	0.0007
8	100.5062	8.7062	4.3560	37.9244	0.0001	0.0009
9	101.7500	9.9500	4.3560	43.3422	0.0001	0.0010
10	101.8125	10.0125	450.3015	53.7369	0.0103	0.0012
11	101.8750	10.0750	896.2470	95.0250	0.0206	0.0022
12	101.9375	10.1375	1342.1925	164.5089	0.0308	0.0038
13	102.0000	10.2000	1788.1380	261.9991	0.0411	0.0060

14	102.0625	10.2625	2234.0835	387.4352	0.0513	0.0089
15	102.1250	10.3250	2680.0290	540.7900	0.0615	0.0124
16	102.1875	10.3875	3125.9745	722.0490	0.0718	0.0166
17	102.2500	10.4500	3571.9200	931.2034	0.0820	0.0214
18	102.3125	10.5125	5374.2150	1208.8594	0.1234	0.0278
19	102.3750	10.5750	7176.5100	1599.7146	0.1648	0.0367
20	102.4375	10.6375	8978.8050	2103.5177	0.2061	0.0483
21	102.5000	10.7000	10781.1000	2720.1567	0.2475	0.0624
22	102.5625	10.7625	12583.3950	3449.5720	0.2889	0.0792
23	102.6250	10.8250	14385.6900	4291.7279	0.3302	0.0985
24	102.6875	10.8875	16187.9850	5246.6014	0.3716	0.1204
25	102.7500	10.9500	17990.2800	6314.1769	0.4130	0.1450
26	102.8125	11.0125	18251.6400	7446.7270	0.4190	0.1710
27	102.8750	11.0750	18513.0000	8595.6124	0.4250	0.1973
28	102.9375	11.1375	18774.3600	9760.8328	0.4310	0.2241
29	103.0000	11.2000	19035.7200	10942.3884	0.4370	0.2512
30	103.0625	11.2625	19297.0800	12140.2791	0.4430	0.2787
31	103.1250	11.3250	19558.4400	13354.5050	0.4490	0.3066
32	103.1875	11.3875	19819.8000	14585.0659	0.4550	0.3348
33	103.2500	11.4500	20081.1600	15831.9620	0.4610	0.3635
34	103.2500	11.4500	20081.1600	15831.9620	0.4610	0.3635

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| Variable storage data for node | CR-19
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	92.3200	0.0000	4.3560	0.0000	0.0001	0.0000
2	93.3587	1.0388	4.3560	4.5248	0.0001	0.0001
3	94.3975	2.0775	4.3560	9.0496	0.0001	0.0002
4	95.4362	3.1162	4.3560	13.5744	0.0001	0.0003
5	96.4750	4.1550	4.3560	18.0992	0.0001	0.0004
6	97.5137	5.1938	4.3560	22.6240	0.0001	0.0005
7	98.5525	6.2325	4.3560	27.1488	0.0001	0.0006
8	99.5912	7.2713	4.3560	31.6736	0.0001	0.0007
9	100.6300	8.3100	4.3560	36.1984	0.0001	0.0008
10	100.6925	8.3725	450.3015	46.5931	0.0103	0.0011
11	100.7550	8.4350	896.2470	87.8812	0.0206	0.0020
12	100.8175	8.4975	1342.1925	157.3650	0.0308	0.0036
13	100.8800	8.5600	1788.1380	254.8553	0.0411	0.0059
14	100.9425	8.6225	2234.0835	380.2914	0.0513	0.0087
15	101.0050	8.6850	2680.0290	533.6462	0.0615	0.0123
16	101.0675	8.7475	3125.9745	714.9051	0.0718	0.0164
17	101.1300	8.8100	3571.9200	924.0595	0.0820	0.0212
18	101.1925	8.8725	5374.2150	1201.7156	0.1234	0.0276
19	101.2550	8.9350	7176.5100	1592.5707	0.1648	0.0366
20	101.3175	8.9975	8978.8050	2096.3738	0.2061	0.0481
21	101.3800	9.0600	10781.1000	2713.0129	0.2475	0.0623
22	101.4425	9.1225	12583.3950	3442.4282	0.2889	0.0790
23	101.5050	9.1850	14385.6900	4284.5841	0.3302	0.0984
24	101.5675	9.2475	16187.9850	5239.4576	0.3716	0.1203
25	101.6300	9.3100	17990.2800	6307.0330	0.4130	0.1448
26	101.6925	9.3725	18251.6400	7439.5832	0.4190	0.1708
27	101.7550	9.4350	18513.0000	8588.4685	0.4250	0.1972
28	101.8175	9.4975	18774.3600	9753.6890	0.4310	0.2239
29	101.8800	9.5600	19035.7200	10935.2446	0.4370	0.2510
30	101.9425	9.6225	19297.0800	12133.1353	0.4430	0.2785
31	102.0050	9.6850	19558.4400	13347.3611	0.4490	0.3064
32	102.0675	9.7475	19819.8000	14577.9221	0.4550	0.3347
33	102.1300	9.8100	20081.1600	15824.8182	0.4610	0.3633
34	102.1300	9.8100	20081.1600	15824.8182	0.4610	0.3633

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| Variable storage data for node | CR-36
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	95.1500	0.0000	4.3560	0.0000	0.0001	0.0000
2	95.5875	0.4375	4.3560	1.9057	0.0001	0.0000
3	96.0250	0.8750	4.3560	3.8115	0.0001	0.0001
4	96.4625	1.3125	4.3560	5.7172	0.0001	0.0001
5	96.9000	1.7500	4.3560	7.6230	0.0001	0.0002
6	97.3375	2.1875	4.3560	9.5287	0.0001	0.0002
7	97.7750	2.6250	4.3560	11.4345	0.0001	0.0003
8	98.2125	3.0625	4.3560	13.3402	0.0001	0.0003
9	98.6500	3.5000	4.3560	15.2460	0.0001	0.0003
10	98.7125	3.5625	450.3015	25.6407	0.0103	0.0006
11	98.7750	3.6250	896.2470	66.9288	0.0206	0.0015
12	98.8375	3.6875	1342.1925	136.4127	0.0308	0.0031
13	98.9000	3.7500	1788.1380	233.9029	0.0411	0.0054
14	98.9625	3.8125	2234.0835	359.3390	0.0513	0.0082
15	99.0250	3.8750	2680.0290	512.6938	0.0615	0.0118
16	99.0875	3.9375	3125.9745	693.9528	0.0718	0.0159
17	99.1500	4.0000	3571.9200	903.1072	0.0820	0.0207
18	99.2125	4.0625	5374.2150	1180.7632	0.1234	0.0271
19	99.2750	4.1250	7176.5100	1571.6184	0.1648	0.0361
20	99.3375	4.1875	8978.8050	2075.4215	0.2061	0.0476
21	99.4000	4.2500	10781.1000	2692.0605	0.2475	0.0618
22	99.4625	4.3125	12583.3950	3421.4758	0.2889	0.0785
23	99.5250	4.3750	14385.6900	4263.6317	0.3302	0.0979
24	99.5875	4.4375	16187.9850	5218.5052	0.3716	0.1198
25	99.6500	4.5000	17990.2800	6286.0807	0.4130	0.1443
26	99.7125	4.5625	18251.6400	7418.6308	0.4190	0.1703
27	99.7750	4.6250	18513.0000	8567.5162	0.4250	0.1967
28	99.8375	4.6875	18774.3600	9732.7366	0.4310	0.2234
29	99.9000	4.7500	19035.7200	10914.2922	0.4370	0.2506
30	99.9625	4.8125	19297.0800	12112.1829	0.4430	0.2781
31	100.0250	4.8750	19558.4400	13326.4088	0.4490	0.3059
32	100.0875	4.9375	19819.8000	14556.9697	0.4550	0.3342
33	100.1500	5.0000	20081.1600	15803.8658	0.4610	0.3628

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| Variable storage data for node | CR-45
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	88.5400	0.0000	4.3560	0.0000	0.0001	0.0000
2	90.0350	1.4950	4.3560	6.5122	0.0001	0.0001
3	91.5300	2.9900	4.3560	13.0244	0.0001	0.0003
4	93.0250	4.4850	4.3560	19.5367	0.0001	0.0004
5	94.5200	5.9800	4.3560	26.0489	0.0001	0.0006
6	96.0150	7.4750	4.3560	32.5611	0.0001	0.0007
7	97.5100	8.9700	4.3560	39.0733	0.0001	0.0009
8	99.0050	10.4650	4.3560	45.5855	0.0001	0.0010
9	100.5000	11.9600	4.3560	52.0978	0.0001	0.0012
10	100.5625	12.0225	450.3015	62.4925	0.0103	0.0014
11	100.6250	12.0850	896.2470	103.7806	0.0206	0.0024
12	100.6875	12.1475	1342.1925	173.2644	0.0308	0.0040
13	100.7500	12.2100	1788.1380	270.7547	0.0411	0.0062
14	100.8125	12.2725	2234.0835	396.1908	0.0513	0.0091
15	100.8750	12.3350	2680.0290	549.5456	0.0615	0.0126
16	100.9375	12.3975	3125.9745	730.8045	0.0718	0.0168
17	101.0000	12.4600	3571.9200	939.9589	0.0820	0.0216
18	101.0625	12.5225	5374.2150	1217.6150	0.1234	0.0280
19	101.1250	12.5850	7176.5100	1608.4701	0.1648	0.0369

20	101.1875	12.6475	8978.8050	2112.2732	0.2061	0.0485
21	101.2500	12.7100	10781.1000	2728.9123	0.2475	0.0626
22	101.3125	12.7725	12583.3950	3458.3276	0.2889	0.0794
23	101.3750	12.8350	14385.6900	4300.4835	0.3302	0.0987
24	101.4375	12.8975	16187.9850	5255.3570	0.3716	0.1206
25	101.5000	12.9600	17990.2800	6322.9324	0.4130	0.1452
26	101.5625	13.0225	18251.6400	7455.4826	0.4190	0.1712
27	101.6250	13.0850	18513.0000	8604.3679	0.4250	0.1975
28	101.6875	13.1475	18774.3600	9769.5884	0.4310	0.2243
29	101.7500	13.2100	19035.7200	10951.1440	0.4370	0.2514
30	101.8125	13.2725	19297.0800	12149.0347	0.4430	0.2789
31	101.8750	13.3350	19558.4400	13363.2605	0.4490	0.3068
32	101.9375	13.3975	19819.8000	14593.8215	0.4550	0.3350
33	102.0000	13.4600	20081.1600	15840.7176	0.4610	0.3637

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| Variable storage data for node | CR-31
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	92.5000	0.0000	4.3560	0.0000	0.0001	0.0000
2	93.4887	0.9888	4.3560	4.3070	0.0001	0.0001
3	94.4775	1.9775	4.3560	8.6140	0.0001	0.0002
4	95.4663	2.9663	4.3560	12.9210	0.0001	0.0003
5	96.4550	3.9550	4.3560	17.2280	0.0001	0.0004
6	97.4437	4.9437	4.3560	21.5350	0.0001	0.0005
7	98.4325	5.9325	4.3560	25.8420	0.0001	0.0006
8	99.4213	6.9213	4.3560	30.1490	0.0001	0.0007
9	100.4100	7.9100	4.3560	34.4560	0.0001	0.0008
10	100.4725	7.9725	450.3015	44.8507	0.0103	0.0010
11	100.5350	8.0350	896.2470	86.1388	0.0206	0.0020
12	100.5975	8.0975	1342.1925	155.6226	0.0308	0.0036
13	100.6600	8.1600	1788.1380	253.1129	0.0411	0.0058
14	100.7225	8.2225	2234.0835	378.5490	0.0513	0.0087
15	100.7850	8.2850	2680.0290	531.9038	0.0615	0.0122
16	100.8475	8.3475	3125.9745	713.1627	0.0718	0.0164
17	100.9100	8.4100	3571.9200	922.3171	0.0820	0.0212
18	100.9725	8.4725	5374.2150	1199.9732	0.1234	0.0275
19	101.0350	8.5350	7176.5100	1590.8283	0.1648	0.0365
20	101.0975	8.5975	8978.8050	2094.6314	0.2061	0.0481
21	101.1600	8.6600	10781.1000	2711.2705	0.2475	0.0622
22	101.2225	8.7225	12583.3950	3440.6858	0.2889	0.0790
23	101.2850	8.7850	14385.6900	4282.8417	0.3302	0.0983
24	101.3475	8.8475	16187.9850	5237.7152	0.3716	0.1202
25	101.4100	8.9100	17990.2800	6305.2906	0.4130	0.1447
26	101.4725	8.9725	18251.6400	7437.8408	0.4190	0.1707
27	101.5350	9.0350	18513.0000	8586.7261	0.4250	0.1971
28	101.5975	9.0975	18774.3600	9751.9466	0.4310	0.2239
29	101.6600	9.1600	19035.7200	10933.5022	0.4370	0.2510
30	101.7225	9.2225	19297.0800	12131.3929	0.4430	0.2785
31	101.7850	9.2850	19558.4400	13345.6187	0.4490	0.3064
32	101.8475	9.3475	19819.8000	14576.1797	0.4550	0.3346
33	101.9100	9.4100	20081.1600	15823.0758	0.4610	0.3632

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| Variable storage data for node | CR-30
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	93.0100	0.0000	4.3560	0.0000	0.0001	0.0000
2	93.8287	0.8187	4.3560	3.5665	0.0001	0.0001
3	94.6475	1.6375	4.3560	7.1329	0.0001	0.0002
4	95.4663	2.4562	4.3560	10.6994	0.0001	0.0002
5	96.2850	3.2750	4.3560	14.2659	0.0001	0.0003
6	97.1038	4.0938	4.3560	17.8324	0.0001	0.0004
7	97.9225	4.9125	4.3560	21.3988	0.0001	0.0005
8	98.7413	5.7313	4.3560	24.9653	0.0001	0.0006
9	99.5600	6.5500	4.3560	28.5318	0.0001	0.0007
10	99.6225	6.6125	450.3015	38.9265	0.0103	0.0009
11	99.6850	6.6750	896.2470	80.2146	0.0206	0.0018
12	99.7475	6.7375	1342.1925	149.6985	0.0308	0.0034
13	99.8100	6.8000	1788.1380	247.1887	0.0411	0.0057
14	99.8725	6.8625	2234.0835	372.6248	0.0513	0.0086
15	99.9350	6.9250	2680.0290	525.9796	0.0615	0.0121
16	99.9975	6.9875	3125.9745	707.2386	0.0718	0.0162
17	100.0600	7.0500	3571.9200	916.3930	0.0820	0.0210
18	100.1225	7.1125	5374.2150	1194.0490	0.1234	0.0274
19	100.1850	7.1750	7176.5100	1584.9042	0.1648	0.0364
20	100.2475	7.2375	8978.8050	2088.7073	0.2061	0.0480
21	100.3100	7.3000	10781.1000	2705.3463	0.2475	0.0621
22	100.3725	7.3625	12583.3950	3434.7616	0.2889	0.0789
23	100.4350	7.4250	14385.6900	4276.9175	0.3302	0.0982
24	100.4975	7.4875	16187.9850	5231.7910	0.3716	0.1201
25	100.5600	7.5500	17990.2800	6299.3665	0.4130	0.1446
26	100.6225	7.6125	18251.6400	7431.9166	0.4190	0.1706
27	100.6850	7.6750	18513.0000	8580.8020	0.4250	0.1970
28	100.7475	7.7375	18774.3600	9746.0224	0.4310	0.2237
29	100.8100	7.8000	19035.7200	10927.5780	0.4370	0.2509
30	100.8725	7.8625	19297.0800	12125.4687	0.4430	0.2784
31	100.9350	7.9250	19558.4400	13339.6946	0.4490	0.3062
32	100.9975	7.9875	19819.8000	14570.2555	0.4550	0.3345
33	101.0600	8.0500	20081.1600	15817.1516	0.4610	0.3631

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| Variable storage data for node | CR-29
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	94.0200	0.0000	4.3560	0.0000	0.0001	0.0000
2	94.6162	0.5962	4.3560	2.5973	0.0001	0.0001
3	95.2125	1.1925	4.3560	5.1945	0.0001	0.0001
4	95.8087	1.7887	4.3560	7.7918	0.0001	0.0002
5	96.4050	2.3850	4.3560	10.3891	0.0001	0.0002
6	97.0012	2.9812	4.3560	12.9863	0.0001	0.0003
7	97.5975	3.5775	4.3560	15.5836	0.0001	0.0004
8	98.1937	4.1738	4.3560	18.1809	0.0001	0.0004
9	98.7900	4.7700	4.3560	20.7781	0.0001	0.0005
10	98.8525	4.8325	450.3015	31.1728	0.0103	0.0007
11	98.9150	4.8950	896.2470	72.4609	0.0206	0.0017
12	98.9775	4.9575	1342.1925	141.9448	0.0308	0.0033
13	99.0400	5.0200	1788.1380	239.4350	0.0411	0.0055
14	99.1025	5.0825	2234.0835	364.8711	0.0513	0.0084
15	99.1650	5.1450	2680.0290	518.2259	0.0615	0.0119
16	99.2275	5.2075	3125.9745	699.4849	0.0718	0.0161
17	99.2900	5.2700	3571.9200	908.6393	0.0820	0.0209
18	99.3525	5.3325	5374.2150	1186.2953	0.1234	0.0272
19	99.4150	5.3950	7176.5100	1577.1505	0.1648	0.0362
20	99.4775	5.4575	8978.8050	2080.9536	0.2061	0.0478
21	99.5400	5.5200	10781.1000	2697.5926	0.2475	0.0619
22	99.6025	5.5825	12583.3950	3427.0079	0.2889	0.0787
23	99.6650	5.6450	14385.6900	4269.1638	0.3302	0.0980
24	99.7275	5.7075	16187.9850	5224.0373	0.3716	0.1199
25	99.7900	5.7700	17990.2800	6291.6128	0.4130	0.1444
26	99.8525	5.8325	18251.6400	7424.1630	0.4190	0.1704
27	99.9150	5.8950	18513.0000	8573.0483	0.4250	0.1968

28	99.9775	5.9575	18774.3600	9738.2687	0.4310	0.2236
29	100.0400	6.0200	19035.7200	10919.8243	0.4370	0.2507
30	100.1025	6.0825	19297.0800	12117.7150	0.4430	0.2782
31	100.1650	6.1450	19558.4400	13331.9409	0.4490	0.3061
32	100.2275	6.2075	19819.8000	14562.5019	0.4550	0.3343
33	100.2900	6.2700	20081.1600	15809.3979	0.4610	0.3629
34	100.2900	6.2700	20081.1600	15809.3979	0.4610	0.3629

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| Variable storage data for node | CR-27
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	96.0600	0.0000	4.3560	0.0000	0.0001	0.0000
2	96.4350	0.3750	4.3560	1.6335	0.0001	0.0000
3	96.8100	0.7500	4.3560	3.2670	0.0001	0.0001
4	97.1850	1.1250	4.3560	4.9005	0.0001	0.0001
5	97.5600	1.5000	4.3560	6.5340	0.0001	0.0001
6	97.9350	1.8750	4.3560	8.1675	0.0001	0.0002
7	98.3100	2.2500	4.3560	9.8010	0.0001	0.0002
8	98.6850	2.6250	4.3560	11.4345	0.0001	0.0003
9	99.0600	3.0000	4.3560	13.0680	0.0001	0.0003
10	99.1225	3.0625	450.3015	23.4627	0.0103	0.0005
11	99.1850	3.1250	896.2470	64.7508	0.0206	0.0015
12	99.2475	3.1875	1342.1925	134.2347	0.0308	0.0031
13	99.3100	3.2500	1788.1380	231.7249	0.0411	0.0053
14	99.3725	3.3125	2234.0835	357.1610	0.0513	0.0082
15	99.4350	3.3750	2680.0290	510.5158	0.0615	0.0117
16	99.4975	3.4375	3125.9745	691.7748	0.0718	0.0159
17	99.5600	3.5000	3571.9200	900.9292	0.0820	0.0207
18	99.6225	3.5625	5374.2150	1178.5852	0.1234	0.0271
19	99.6850	3.6250	7176.5100	1569.4404	0.1648	0.0360
20	99.7475	3.6875	8978.8050	2073.2435	0.2061	0.0476
21	99.8100	3.7500	10781.1000	2689.8825	0.2475	0.0618
22	99.8725	3.8125	12583.3950	3419.2978	0.2889	0.0785
23	99.9350	3.8750	14385.6900	4261.4537	0.3302	0.0978
24	99.9975	3.9375	16187.9850	5216.3272	0.3716	0.1198
25	100.0600	4.0000	17990.2800	6283.9027	0.4130	0.1443
26	100.1225	4.0625	18251.6400	7416.4528	0.4190	0.1703
27	100.1850	4.1250	18513.0000	8565.3382	0.4250	0.1966
28	100.2475	4.1875	18774.3600	9730.5586	0.4310	0.2234
29	100.3100	4.2500	19035.7200	10912.1142	0.4370	0.2505
30	100.3725	4.3125	19297.0800	12110.0049	0.4430	0.2780
31	100.4350	4.3750	19558.4400	13324.2308	0.4490	0.3059
32	100.4975	4.4375	19819.8000	14554.7917	0.4550	0.3341
33	100.5600	4.5000	20081.1600	15801.6878	0.4610	0.3628

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| Variable storage data for node | CG-6
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	97.3200	0.0000	4.3560	0.0000	0.0001	0.0000
2	97.8825	0.5625	4.3560	2.4502	0.0001	0.0001
3	98.4450	1.1250	4.3560	4.9005	0.0001	0.0001
4	99.0075	1.6875	4.3560	7.3507	0.0001	0.0002
5	99.5700	2.2500	4.3560	9.8010	0.0001	0.0002
6	100.1325	2.8125	4.3560	12.2512	0.0001	0.0003
7	100.6950	3.3750	4.3560	14.7015	0.0001	0.0003
8	101.2575	3.9375	4.3560	17.1517	0.0001	0.0004
9	101.8200	4.5000	4.3560	19.6020	0.0001	0.0004
10	101.8825	4.5625	450.3015	29.9967	0.0103	0.0007
11	101.9450	4.6250	896.2470	71.2848	0.0206	0.0016
12	102.0075	4.6875	1342.1925	140.7687	0.0308	0.0032
13	102.0700	4.7500	1788.1380	238.2589	0.0411	0.0055
14	102.1325	4.8125	2234.0835	363.6950	0.0513	0.0083
15	102.1950	4.8750	2680.0290	517.0498	0.0615	0.0119
16	102.2575	4.9375	3125.9745	698.3088	0.0718	0.0160
17	102.3200	5.0000	3571.9200	907.4632	0.0820	0.0208
18	102.3825	5.0625	5374.2150	1185.1192	0.1234	0.0272
19	102.4450	5.1250	7176.5100	1575.9744	0.1648	0.0362
20	102.5075	5.1875	8978.8050	2079.7775	0.2061	0.0477
21	102.5700	5.2500	10781.1000	2696.4165	0.2475	0.0619
22	102.6325	5.3125	12583.3950	3425.8318	0.2889	0.0786
23	102.6950	5.3750	14385.6900	4267.9877	0.3302	0.0980
24	102.7575	5.4375	16187.9850	5222.8612	0.3716	0.1199
25	102.8200	5.5000	17990.2800	6290.4367	0.4130	0.1444
26	102.8825	5.5625	18251.6400	7422.9868	0.4190	0.1704
27	102.9450	5.6250	18513.0000	8571.8722	0.4250	0.1968
28	103.0075	5.6875	18774.3600	9737.0926	0.4310	0.2235
29	103.0700	5.7500	19035.7200	10918.6482	0.4370	0.2507
30	103.1325	5.8125	19297.0800	12116.5389	0.4430	0.2782
31	103.1950	5.8750	19558.4400	13330.7648	0.4490	0.3060
32	103.2575	5.9375	19819.8000	14561.3257	0.4550	0.3343
33	103.3200	6.0000	20081.1600	15808.2218	0.4610	0.3629

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| Variable storage data for node | CD-32
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	95.9000	0.0000	4.3560	0.0000	0.0001	0.0000
2	96.4625	0.5625	4.3560	2.4502	0.0001	0.0001
3	97.0250	1.1250	4.3560	4.9005	0.0001	0.0001
4	97.5875	1.6875	4.3560	7.3507	0.0001	0.0002
5	98.1500	2.2500	4.3560	9.8010	0.0001	0.0002
6	98.7125	2.8125	4.3560	12.2512	0.0001	0.0003
7	99.2750	3.3750	4.3560	14.7015	0.0001	0.0003
8	99.8375	3.9375	4.3560	17.1517	0.0001	0.0004
9	100.4000	4.5000	4.3560	19.6020	0.0001	0.0004
10	100.4625	4.5625	450.3015	29.9967	0.0103	0.0007
11	100.5250	4.6250	896.2470	71.2848	0.0206	0.0016
12	100.5875	4.6875	1342.1925	140.7687	0.0308	0.0032
13	100.6500	4.7500	1788.1380	238.2589	0.0411	0.0055
14	100.7125	4.8125	2234.0835	363.6950	0.0513	0.0083
15	100.7750	4.8750	2680.0290	517.0498	0.0615	0.0119
16	100.8375	4.9375	3125.9745	698.3088	0.0718	0.0160
17	100.9000	5.0000	3571.9200	907.4632	0.0820	0.0208
18	100.9625	5.0625	5374.2150	1185.1192	0.1234	0.0272
19	101.0250	5.1250	7176.5100	1575.9744	0.1648	0.0362
20	101.0875	5.1875	8978.8050	2079.7775	0.2061	0.0477
21	101.1500	5.2500	10781.1000	2696.4165	0.2475	0.0619
22	101.2125	5.3125	12583.3950	3425.8318	0.2889	0.0786
23	101.2750	5.3750	14385.6900	4267.9877	0.3302	0.0980
24	101.3375	5.4375	16187.9850	5222.8612	0.3716	0.1199
25	101.4000	5.5000	17990.2800	6290.4367	0.4130	0.1444
26	101.4625	5.5625	18251.6400	7422.9868	0.4190	0.1704
27	101.5250	5.6250	18513.0000	8571.8722	0.4250	0.1968
28	101.5875	5.6875	18774.3600	9737.0926	0.4310	0.2235
29	101.6500	5.7500	19035.7200	10918.6482	0.4370	0.2507
30	101.7125	5.8125	19297.0800	12116.5389	0.4430	0.2782
31	101.7750	5.8750	19558.4400	13330.7648	0.4490	0.3060
32	101.8375	5.9375	19819.8000	14561.3257	0.4550	0.3343
33	101.9000	6.0000	20081.1600	15808.2218	0.4610	0.3629

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| Variable storage data for node | CG-5
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	96.5900	0.0000	4.3560	0.0000	0.0001	0.0000
2	97.1912	0.6012	4.3560	2.6190	0.0001	0.0001
3	97.7925	1.2025	4.3560	5.2381	0.0001	0.0001
4	98.3937	1.8037	4.3560	7.8571	0.0001	0.0002
5	98.9950	2.4050	4.3560	10.4762	0.0001	0.0002
6	99.5962	3.0062	4.3560	13.0952	0.0001	0.0003
7	100.1975	3.6075	4.3560	15.7143	0.0001	0.0004
8	100.7987	4.2087	4.3560	18.3333	0.0001	0.0004
9	101.4000	4.8100	4.3560	20.9524	0.0001	0.0005
10	101.4625	4.8725	450.3015	31.3471	0.0103	0.0007
11	101.5250	4.9350	896.2470	72.6352	0.0206	0.0017
12	101.5875	4.9975	1342.1925	142.1190	0.0308	0.0033
13	101.6500	5.0600	1788.1380	239.6093	0.0411	0.0055
14	101.7125	5.1225	2234.0835	365.0454	0.0513	0.0084
15	101.7750	5.1850	2680.0290	518.4002	0.0615	0.0119
16	101.8375	5.2475	3125.9745	699.6591	0.0718	0.0161
17	101.9000	5.3100	3571.9200	908.8135	0.0820	0.0209
18	101.9625	5.3725	5374.2150	1186.4696	0.1234	0.0272
19	102.0250	5.4350	7176.5100	1577.3247	0.1648	0.0362
20	102.0875	5.4975	8978.8050	2081.1278	0.2061	0.0478
21	102.1500	5.5600	10781.1000	2697.7669	0.2475	0.0619
22	102.2125	5.6225	12583.3950	3427.1822	0.2889	0.0787
23	102.2750	5.6850	14385.6900	4269.3381	0.3302	0.0980
24	102.3375	5.7475	16187.9850	5224.2116	0.3716	0.1199
25	102.4000	5.8100	17990.2800	6291.7870	0.4130	0.1444
26	102.4625	5.8725	18251.6400	7424.3372	0.4190	0.1704
27	102.5250	5.9350	18513.0000	8573.2225	0.4250	0.1968
28	102.5875	5.9975	18774.3600	9738.4430	0.4310	0.2236
29	102.6500	6.0600	19035.7200	10919.9986	0.4370	0.2507
30	102.7125	6.1225	19297.0800	12117.8893	0.4430	0.2782
31	102.7750	6.1850	19558.4400	13332.1151	0.4490	0.3061
32	102.8375	6.2475	19819.8000	14562.6761	0.4550	0.3343
33	102.9000	6.3100	20081.1600	15809.5722	0.4610	0.3629
34	102.9000	6.3100	20081.1600	15809.5722	0.4610	0.3629

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| New Pump Data Fields for PBSJ and Miami/Dade |
| Pump Name/Upstream Node/Dnstream Node/DataPt/Depth/Flow |
===

PumpPump01	SNT01	CC-40	1	0.000	0.000	2	3.000	50.000
			3	20.000	128.000			

==
| Special Pump Data Conduits for PBSJ |
==

Conduit Name	Diameter ft or m	Length ft or m	Rough -ness	Entrance Loss K	Exit Loss K	Valve Loss K	Bend Loss K	Loss Coefft	Preissman Sf*L	Preissman SlotWidth

Pump Name	Upstream Node	Dnstream Node	Minor Loss
Pump01	SNT01	CC-40	0.0000

Pt.	Flow Rate,	Original Head,	Modified Head	Force Main
1	0.000	0.000	0.000	0.000
2	50.000	3.000	3.000	3.000
3	128.000	20.000	20.000	20.000

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| Special Pump Data Conduits for PBSJ |
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Conduit Name	Maximum # of Pump Iterations	Pump Underrelaxation Parameter(0.25-0.85)

==
| FREE OUTFALL DATA (DATA GROUP I1) |
| BOUNDARY CONDITION ON DATA GROUP J1 |
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Outfall at Junction....CJ-59 has boundary condition number... 1

==
| INTERNAL CONNECTIVITY INFORMATION |
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CONDUIT	JUNCTION	JUNCTION
Pump01	SNT01	CC-40
FREE # 1	CJ-59	BOUNDARY

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| Boundary Condition Information |
| Data Groups J1-J4 |
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| XP Note Field Summary |
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| Table E9 - JUNCTION SUMMARY STATISTICS |
| The Maximum area is only the area of the node, it |
| does not include the area of the surrounding conduits |
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Junction Name	Ground Elevation feet	Uppermost PipeCrown Elevation feet	Maximum Junction Elevation feet	Time of Occurence Hr.	Time of Occurence Min.	Feet of Surcharge at Max Elevation	Freeboard of node feet	Maximum Junction Area ft^2	Maximum Gutter Depth feet	Maximum Gutter Width feet	Maximum Gutter Velocity ft/s
CJ-10	106.8600	99.5000	103.6275	16	55	4.1275	3.2325	12.5660	0.0000	0.0000	0.0000
CJ-12	106.7600	99.3900	103.5855	16	55	4.1955	3.1745	12.5660	0.0000	0.0000	0.0000
CJ-14	106.7000	99.1500	103.6051	16	55	4.4551	3.0949	12.5660	0.0000	0.0000	0.0000
CC-48	106.1000	102.0400	106.1966	16	56	4.1566	0.0000	5624.8172	0.0000	0.0000	0.0000
CC-6	121.4400	117.9500	104.2382	16	23	0.0000	17.2018	12.5660	0.0000	0.0000	0.0000
CC-5	123.4400	99.8000	104.1830	16	23	4.3830	19.2570	12.5660	0.0000	0.0000	0.0000
CC-1	104.0300	101.0300	104.3853	16	38	3.3553	0.0000	20081.160	0.0000	0.0000	0.0000
CC-8	121.5000	120.1000	119.2777	16	0	0.0000	2.2223	12.5660	0.0000	0.0000	0.0000
CJ-1	106.6100	100.6000	104.1706	16	23	3.5706	2.4394	4.3560	0.0000	0.0000	0.0000
CC-9	119.3900	100.2300	104.2939	16	56	4.0639	15.0961	12.5660	0.0000	0.0000	0.0000
CC-2	106.8100	103.8100	105.0835	16	28	1.2735	1.7265	4.3560	0.0000	0.0000	0.0000
CC-3	108.4400	105.4400	105.1270	16	27	0.0000	3.3130	4.3560	0.0000	0.0000	0.0000
CC-7	121.5000	119.5300	118.8199	16	0	0.0000	2.6801	12.5660	0.0000	0.0000	0.0000
CJ-2A	195.5000	100.3000	104.0904	16	23	3.7904	91.4096	4.3560	0.0000	0.0000	0.0000

CJ-2	106.6500	101.1500	104.1063	16	23	2.9563	2.5437	4.3560	0.0000	0.0000	0.0000
CJ-3	107.5300	100.6800	104.0294	16	23	3.3494	3.5006	4.3560	0.0000	0.0000	0.0000
CD-1	107.0300	102.5300	103.9334	16	18	1.4034	3.0966	4.3560	0.0000	0.0000	0.0000
CD-2	106.8000	102.3200	104.2227	16	20	1.9027	2.5773	4.3560	0.0000	0.0000	0.0000
CJ-5	106.8000	99.1000	103.8880	16	20	4.7880	2.9120	12.5660	0.0000	0.0000	0.0000
CJ-4	107.0300	99.1700	103.9320	16	20	4.7620	3.0980	12.5660	0.0000	0.0000	0.0000
CD-3	106.7100	102.2100	103.8330	16	20	1.6230	2.8770	4.3560	0.0000	0.0000	0.0000
CJ-6	106.7100	99.0300	103.8228	16	20	4.7928	2.8872	12.5660	0.0000	0.0000	0.0000
CD-4	106.8300	102.3300	103.7516	16	20	1.4216	3.0784	4.3560	0.0000	0.0000	0.0000
CJ-7	106.8300	98.9500	103.7453	16	20	4.7953	3.0847	12.5660	0.0000	0.0000	0.0000
CD-5	107.0600	102.5600	103.6707	16	20	1.1107	3.3893	4.3560	0.0000	0.0000	0.0000
CJ-8	107.0600	98.8700	103.6652	16	20	4.7952	3.3948	12.5660	0.0000	0.0000	0.0000
CD-6	107.0700	102.5700	103.7515	16	55	1.1815	3.3185	4.3560	0.0000	0.0000	0.0000
CD-7	106.8600	102.3600	103.6393	16	55	1.2793	3.2207	4.3560	0.0000	0.0000	0.0000
CC-32	123.2100	99.2100	103.9954	16	55	4.7854	19.2146	12.5660	0.0000	0.0000	0.0000
CJ-8a	195.5000	99.6600	103.6311	16	20	3.9711	91.8689	12.5660	0.0000	0.0000	0.0000
CC-31	119.8400	99.8400	103.6774	16	22	3.8374	16.1626	12.5660	0.0000	0.0000	0.0000
CJ-6a	195.5000	99.5000	103.7976	16	20	4.2976	91.7024	12.5660	0.0000	0.0000	0.0000
CC-24	117.2900	99.5000	103.8592	16	56	4.3592	13.4308	12.5660	0.0000	0.0000	0.0000
CC-23	116.5000	99.5000	103.9477	16	56	4.4477	12.5523	12.5660	0.0000	0.0000	0.0000
CC-22	116.2900	99.9400	104.0878	16	15	4.1478	12.2022	12.5660	0.0000	0.0000	0.0000
CJ-29	106.6300	100.0900	103.9576	16	20	3.8676	2.6724	4.3560	0.0000	0.0000	0.0000
CC-14	116.2200	102.0000	104.1142	15	59	2.1142	12.1058	12.5660	0.0000	0.0000	0.0000
CC-13	116.5700	112.0000	104.0354	16	23	0.0000	12.5346	12.5660	0.0000	0.0000	0.0000
CC-12	116.5700	113.6400	112.1400	0	0	0.0000	4.4300	12.5660	0.0000	0.0000	0.0000
CC-11	116.5700	114.1900	112.6900	0	0	0.0000	3.8800	12.5660	0.0000	0.0000	0.0000
CC-10	117.7200	101.5000	104.1493	16	23	2.6493	13.5707	12.5660	0.0000	0.0000	0.0000
CJ-28	106.8000	100.4000	104.1512	16	23	3.7512	2.6488	4.3560	0.0000	0.0000	0.0000
CJ-27	107.0500	100.5100	104.1654	16	23	3.6554	2.8846	4.3560	0.0000	0.0000	0.0000
CC-15	108.7800	104.2800	105.0653	16	15	0.7853	3.7147	4.3560	0.0000	0.0000	0.0000
CC-16	108.4800	104.0000	105.0458	16	15	1.0458	3.4342	4.3560	0.0000	0.0000	0.0000
CC-17	108.3000	104.3500	105.1997	16	15	0.8497	3.1003	4.3560	0.0000	0.0000	0.0000
CC-18	107.9300	104.9300	105.2171	16	15	0.2871	2.7129	4.3560	0.0000	0.0000	0.0000
CC-19	116.6200	111.5200	104.9675	16	15	0.0000	11.6525	12.5660	0.0000	0.0000	0.0000
CC-20	116.6900	111.7400	111.2676	16	0	0.0000	5.4224	12.5660	0.0000	0.0000	0.0000
CC-21	117.5100	112.0200	111.4030	16	0	0.0000	6.1070	12.5660	0.0000	0.0000	0.0000
CC-28	120.0800	102.7900	104.0648	16	22	1.2748	16.0152	12.5660	0.0000	0.0000	0.0000
CC-29	123.4000	117.1000	115.9113	16	59	0.0000	7.4887	12.5660	0.0000	0.0000	0.0000
CC-25	107.1000	104.1000	104.1217	16	15	0.0217	2.9783	4.3560	0.0000	0.0000	0.0000
CC-26	106.9900	103.9100	104.0844	16	15	0.1744	2.9056	4.3560	0.0000	0.0000	0.0000
CC-27	107.0900	104.0900	104.1441	16	0	0.0541	2.9459	4.3560	0.0000	0.0000	0.0000
CD-8	106.7600	102.2600	103.6137	16	55	1.3537	3.1463	4.3560	0.0000	0.0000	0.0000
CD-9	106.8500	103.3500	103.6121	16	55	0.2621	3.2379	4.3560	0.0000	0.0000	0.0000
CJ-13	106.8500	99.4800	103.5688	16	55	4.0888	3.2812	12.5660	0.0000	0.0000	0.0000
CC-35	107.0300	104.0300	105.2762	16	15	1.2462	1.7538	4.3560	0.0000	0.0000	0.0000
CC-33	126.3500	121.8600	104.9760	16	15	0.0000	21.3740	12.5660	0.0000	0.0000	0.0000
CC-36	106.8200	103.7600	105.2693	16	15	1.5093	1.5507	4.3560	0.0000	0.0000	0.0000
CC-37	106.9200	103.9200	105.2784	16	15	1.3584	1.6416	4.3560	0.0000	0.0000	0.0000
CC-38	128.4100	123.1400	122.4104	16	0	0.0000	5.9996	12.5660	0.0000	0.0000	0.0000
CC-39	128.1600	99.3900	104.2241	16	55	4.8341	23.9359	12.5660	0.0000	0.0000	0.0000
CD-10	106.7000	102.2000	103.9107	16	56	1.7107	2.7893	4.3560	0.0000	0.0000	0.0000
CJ-15	106.7000	99.0900	103.5882	16	55	4.4982	3.1118	12.5660	0.0000	0.0000	0.0000
CD-11	106.3700	101.8700	104.3493	16	56	2.4793	2.0207	4.3560	0.0000	0.0000	0.0000
CJ-16	106.3700	98.9900	103.7562	16	55	4.7662	2.6138	12.5660	0.0000	0.0000	0.0000
CJ-17	105.8400	98.8800	103.8853	16	55	5.0053	1.9547	12.5660	0.0000	0.0000	0.0000
CC-4	103.7800	99.8400	104.2812	16	33	4.4412	0.0000	8253.3155	0.0000	0.0000	0.0000
CJ-11	106.8600	99.4600	103.6079	16	55	4.1479	3.2521	12.5660	0.0000	0.0000	0.0000
CJ-9	107.0700	99.5400	103.6133	16	55	4.0733	3.4567	12.5660	0.0000	0.0000	0.0000
CJ-12a	106.8500	99.3200	103.5794	16	55	4.2594	3.2706	12.5660	0.0000	0.0000	0.0000
CC-44	106.4900	98.9800	104.1123	16	55	5.1323	2.3777	12.5660	0.0000	0.0000	0.0000
CC-34	126.1000	99.4200	103.6448	16	55	4.2248	22.4552	12.5660	0.0000	0.0000	0.0000
CC-40	106.0300	102.7700	106.0924	16	55	3.3224	0.0000	5322.1316	0.0000	0.0000	0.0000
CC-43	106.4700	101.5800	105.5152	16	55	4.3352	0.5548	12.5660	0.0000	0.0000	0.0000
CC-46	106.6500	102.6500	105.2391	16	56	2.5891	1.4109	640.0271	0.0000	0.0000	0.0000
CC-45	106.4000	102.5400	104.9979	16	56	2.4579	1.4021	703.0663	0.0000	0.0000	0.0000
CC-57	105.9000	102.3000	104.5763	16	55	2.2763	1.3237	1262.1886	0.0000	0.0000	0.0000
CC-42	105.9700	103.3700	104.6882	16	55	1.3182	1.2818	1561.3837	0.0000	0.0000	0.0000
CD-12	105.8400	102.2600	104.3964	16	55	2.1364	1.4436	407.0199	0.0000	0.0000	0.0000
CD-13	105.8400	102.4000	104.4400	16	55	2.0400	1.4000	717.9581	0.0000	0.0000	0.0000
CC-30	105.8200	102.3300	104.0042	16	15	1.6742	1.8158	12.5660	0.0000	0.0000	0.0000
CC-49	106.2000	102.0200	106.3018	16	56	4.2818	0.0000	5590.5795	0.0000	0.0000	0.0000
CC-47	106.1000	101.7500	106.1013	16	56	4.3513	0.0000	12.5660	0.0000	0.0000	0.0000
CJ-21	106.1100	98.5900	103.5885	16	55	4.9985	2.5215	12.5660	0.0000	0.0000	0.0000
CJ-24	104.2100	98.2900	103.0226	16	55	4.7326	1.1874	12.5660	0.0000	0.0000	0.0000
CJ-33	103.4100	97.7800	102.9049	21	49	5.1249	0.5051	12.5660	0.0000	0.0000	0.0000
CE-10	116.9800	99.2700	102.9051	21	49	3.6351	14.0749	12.5660	0.0000	0.0000	0.0000
CD-23	102.8100	99.3100	102.9030	22	27	3.5930	0.0000	20081.160	0.0000	0.0000	0.0000
CJ-47	101.1000	96.5700	102.9034	22	31	6.3334	0.0000	30350.639	0.0000	0.0000	0.0000
CD-29	102.2400	97.7400	102.9037	22	30	5.1637	0.0000	20081.160	0.0000	0.0000	0.0000
CR-98	195.5000	93.2800	102.9001	22	24	9.6201	92.5999	12.5660	0.0000	0.0000	0.0000
CR-97	102.2000	93.7600	102.8949	22	30	9.1349	0.0000	10017.104	0.0000	0.0000	0.0000
CE-11	123.6800	98.8100	102.9100	21	50	4.1900	20.2700	12.5660	0.0000	0.0000	0.0000
CR-23	102.5000	96.6000	102.8575	23	4	6.2575	0.0000	7148.7849	0.0000	0.0000	0.0000
CR-35	100.4800	97.4500	102.7994	23	56	5.3494	0.0000	20081.160	0.0000	0.0000	0.0000
CR-37	113.2400	95.9700	102.7970	23	54	6.8270	10.4430	12.5660	0.0000	0.0000	0.0000
CR-38	100.1000	96.9000	102.7970	23	54	5.8970	0.0000	20081.160	0.0000	0.0000	0.0000
CR-22	118.5700	96.5500	102.7870	24	10	6.2370	15.7830	12.5660	0.0000	0.0000	0.0000
CR-20	100.7300	95.5600	102.7959	23	52	7.2359	0.0000	20081.160	0.0000	0.0000	0.0000
CR-41	121.8300	116.8300	115.4312	16	0	0.0000	6.3988	12.5660	0.0000	0.0000	0.0000
CR-10	122.0300	116.2900	102.8948	24	58	0.0000	19.1352	12.5660	0.0000	0.0000	0.0000
CR-88	124.2000	119.2000	118.2249	16	0	0.0000	5.9751	12.5660	0.0000	0.0000	0.0000
CR-24	102.4800	97.9800	102.8576	23	4	4.8776	0.0000	7293.6766	0.0000	0.0000	0.0000
CE-1	105.5700	101.4000	104.1228	16	0	2.7228	1.4472	380.8290	0.0000	0.0000	0.0000
CD-15	105.1200	99.0000	103.3544	16	55	4.3544	1.7656	4.3560	0.0000	0.0000	0.0000
CD-31	101.8100	97.1000	102.9031	22	5	5.8031	0.0000	20081.160	0.0000	0.0000	0.0000
CR-13	102.2600	98.2600	102.8528	23	13	4.5928	0.0000	20081.160	0.0000	0.0000	0.0000
CR-17	103.3000	96.0900	102.8504	23	14	6.7604	0.4496	18200.836	0.0000	0.0000	0.0000
CJ-53a	101.9000	95.9500	102.9024	22	30	6.9524	0.0000	13624.495	0.0000	0.0000	0.0000
CJ-50	102.2400	96.2400	102.9031	22	30	6.6631	0.0000	9703.9413	0.0000	0.0000	0.0000
CJ-49	102.2400	96.3600	102.9033	22	30	6.5433	0.0000	9705.5925	0.0000	0.0000	0.0000
CR-14	102.6500	98.1500	102.8520	23	13	4.7020	0.0000	20081.160	0.0000	0.0000	0.0000
CG-11	118.8400	99.2000	102.9104	22	7	3.7104	13.9296	12.5660	0.0000	0.0000	0.0000
CJ-40	102.4100	97.1200	102.9031	22	26	5.7831	0.0000	8186.6857	0.0000	0.0000	0.0000
CG-1	103.9300	100.7400	102.9062	22	3	2.1662	1.0238	3402.0887	0.0000	0.0000	0.0000
CJ-37	103.0100	97.6200	102.9044	21	49	5.2844	0.1056	12.5660	0.0000	0.0000	0.0000
CE-7	120.3100	98.5100	102.9073	21	50	4.3973	17.4027	12.5660	0.0000	0.0000	0.0000
CE-5	103.9300	98.7300	102.9083	21	50	4.1783	1.0217	3417.3702	0.0000	0.0000	0.0000
CE-4	103.4500	98.9500	102.9098	21	50	3.9598	0.5402	16829.830	0.0000	0.0000	0.0000
CJ-45	102.7100	96.7300	102.9034	22	29	6.1734	0.0000	6066.6251	0.0000	0.0000	0.0000
CD-24	102.4100	97.9100	102.9033	22	28	4.9933	0.0000	20081.160	0.0000	0.0000	0.0000
CC-50	106.1000	102.4600	104.8116	16	55	2.3516	1.2884	12.5660	0.0000	0.0000	0.0000
CJ-18	106.1100	98.8200	103.8808	16	55	5.0608	2.2292	12.5660	0.0000	0.0000	0.0000
CJ-20	106.1100	98.6500	103.6629	16	55	5.0129	2.4471	12.5660	0.0000	0.0000	0.0000
CC-51	106.4600	102.0500	103.8238	16	55	1.7738	2.6362	12.5660	0.0000	0.0000	0.0000
CC-52	106.1900	102.1900	104.9130	16	55	2.7230	1.2770	12.5660	0.0000	0.0000	0.0000
CD-14	106.1100	100.8000	103.7479	16	55	2.9479	2.3621	4.3560	0.0000	0.0000	0.0000
CJ-22	105.1200	98.5100	103.5386	16	55	5.0286	1.5814	12.5660	0.0000	0.0000	0.0000
CC-53	127.9200	123.7000	123.1919	16	1	0.0000	4.7281	12.5660	0.0000	0.0000	0.0000
CC-55	124.8900	100.0000	103.7629	16	55	3.7629	21.1271	12.5660	0.0000	0.0000	0.0000
CJ-25	104.2100	98.4000	102.9194	16	55	4.5194	1.2906	12.5660	0.0000	0.0000	0.0000
CD-16	104.2100	100.0000	102.9061	21	50	2.9061	1.3039	1403.8181	0.0000	0.0000	0.0000
CJ-26	103.3200	98.3200	102.9058	21	50	4.5858	0.4142	12.5660	0.0000	0.0000	0.0000
CD-17	103.3200	98.8200	102.9059	21	49	4.0859	0.4141	18349.563	0.0000	0.0000	0.0000
CJ-30	103.3200	98.0400	102.9056	21	50	4.8656	0.4144	12.5660	0.0000	0.0000	0.0000
CD-18	103.5400	99.0400	102.9056	21	49	3.8656	0.6344	14115.247	0.0000	0.0000	0.0000
CJ-32	103.5400	97.9400	102.9054	21	50	4.9654	0.6346	12.5660	0.0000	0.0000	0.0000
CJ-31	103.5400	97.9500	102.9054	21	50	4.9554	0.6346	12.5660	0.0000	0.0000	0.0000
CE-2	105.0700	101.0700	103.6202	16	0	2.5502	1.4498	362.7681	0.0000	0.0000	0.0000

CE-3	104.2700	99.7700	102.9101	21	50	3.1401	1.3599	1003.7414	0.0000	0.0000	0.0000
CE-9	124.6000	100.1500	103.4508	15	59	3.3008	21.1492	12.5660	0.0000	0.0000	0.0000
CE-6	102.5000	98.5800	102.9076	21	50	4.3276	0.0000	7515.7290	0.0000	0.0000	0.0000
CD-19	103.4100	98.9100	102.9049	21	48	3.9949	0.5051	17843.621	0.0000	0.0000	0.0000
CD-20	103.0100	98.5100	102.9045	21	48	4.3945	0.1055	19640.161	0.0000	0.0000	0.0000
CF-1	117.7500	111.0100	110.3086	16	0	0.0000	7.4414	12.5660	0.0000	0.0000	0.0000
CF-2	117.4200	110.5600	110.1670	16	1	0.0000	7.2530	12.5660	0.0000	0.0000	0.0000
CD-21	102.6100	98.1100	102.9041	21	48	4.7941	0.0000	20081.160	0.0000	0.0000	0.0000
CJ-37a	102.6100	97.5100	102.9040	21	49	5.3940	0.0000	6708.8681	0.0000	0.0000	0.0000
CD-22	102.9100	98.4100	102.9037	21	48	4.4937	0.0063	20054.989	0.0000	0.0000	0.0000
CJ-37c	102.9100	97.4000	102.9033	21	49	5.5033	0.0067	12.5660	0.0000	0.0000	0.0000
CJ-37b	195.5000	97.4600	102.9037	21	50	5.4437	92.5963	12.5660	0.0000	0.0000	0.0000
CG-2	102.6200	99.6200	102.9060	22	1	3.2860	0.0000	20081.160	0.0000	0.0000	0.0000
CG-4	103.1100	98.4100	102.9073	22	5	4.4973	0.2027	19233.478	0.0000	0.0000	0.0000
CG-7	114.4400	98.7800	102.9759	16	15	4.1959	11.4641	12.5660	0.0000	0.0000	0.0000
CG-3	103.2300	99.3900	102.9056	22	2	3.5156	0.3244	18724.402	0.0000	0.0000	0.0000
CG-8	114.5900	97.6300	102.9039	22	0	5.2739	11.6861	12.5660	0.0000	0.0000	0.0000
CG-9	114.5900	97.0300	102.9034	21	51	5.8734	11.6866	12.5660	0.0000	0.0000	0.0000
CG-10	101.5000	96.9100	102.9035	21	50	5.9935	0.0000	20346.439	0.0000	0.0000	0.0000
CH-1	102.9100	98.0000	102.9031	22	23	4.9031	0.0069	4.3560	0.0000	0.0000	0.0000
CJ-38	102.9100	97.2900	102.9030	22	23	5.6130	0.0070	12.5660	0.0000	0.0000	0.0000
CH-2	116.8700	98.0000	102.9036	22	27	4.9036	13.9664	12.5660	0.0000	0.0000	0.0000
CH-3	107.6500	96.9600	102.9034	22	26	5.9434	4.7466	12.5660	0.0000	0.0000	0.0000
CJ-41	102.4100	97.0600	102.9031	22	27	5.8431	0.0000	8186.9606	0.0000	0.0000	0.0000
CK-1	102.9100	99.9100	105.3025	18	44	5.3925	0.0000	20081.160	0.0000	0.0000	0.0000
CK-2	103.3100	99.7000	105.3019	18	44	5.6019	0.0000	20081.160	0.0000	0.0000	0.0000
CK-3	102.0000	98.6500	103.9722	19	57	5.3222	0.0000	35931.875	0.0000	0.0000	0.0000
CK-4	118.5100	114.0000	103.8643	19	59	0.0000	14.6457	12.5660	0.0000	0.0000	0.0000
CJ-43	102.7100	96.9000	102.9033	22	28	6.0033	0.0000	6066.1721	0.0000	0.0000	0.0000
CK-5	115.6300	96.5600	102.9996	21	7	6.4396	12.6304	12.5660	0.0000	0.0000	0.0000
CK-6	121.6600	117.1700	116.3099	16	15	0.0000	5.3501	12.5660	0.0000	0.0000	0.0000
CK-7	120.0100	115.6100	115.0275	16	15	0.0000	4.9825	12.5660	0.0000	0.0000	0.0000
CD-27	102.4100	97.9100	102.9037	22	30	4.9937	0.0000	20081.160	0.0000	0.0000	0.0000
CK-8	119.5800	98.2500	102.9135	24	13	4.6635	16.6665	12.5660	0.0000	0.0000	0.0000
CD-28	102.7100	98.2100	102.9037	22	30	4.6937	0.0000	20081.160	0.0000	0.0000	0.0000
CJ-46	102.7100	96.6200	102.9034	22	30	6.2834	0.0000	6066.7758	0.0000	0.0000	0.0000
CK-9	121.4100	98.2500	102.9038	22	31	4.6538	18.5062	12.5660	0.0000	0.0000	0.0000
CJ-48	101.1000	96.4000	102.9033	22	30	6.5033	0.0000	30348.509	0.0000	0.0000	0.0000
CL-6	101.1000	96.4300	102.9029	22	31	6.4729	0.0000	30334.916	0.0000	0.0000	0.0000
CL-5	123.1700	96.6100	102.9025	22	32	6.2925	20.2675	12.5660	0.0000	0.0000	0.0000
CL-4a	124.5000	96.6700	102.8990	22	35	6.2290	21.6010	12.5660	0.0000	0.0000	0.0000
CL-4	123.1700	97.2300	102.8965	22	38	5.6665	20.2735	12.5660	0.0000	0.0000	0.0000
CL-8	102.5700	97.9500	102.8964	22	48	4.9464	0.0000	20081.160	0.0000	0.0000	0.0000
CL-3	102.1900	98.1900	102.8980	22	49	4.7080	0.0000	20081.160	0.0000	0.0000	0.0000
CL-2	102.2600	98.2600	102.8985	22	49	4.6385	0.0000	20081.160	0.0000	0.0000	0.0000
CL-1	103.4300	98.5200	102.8996	22	52	4.3796	0.5304	12.5660	0.0000	0.0000	0.0000
CL-9	102.5700	98.7400	102.9013	22	53	4.1613	0.0000	20081.160	0.0000	0.0000	0.0000
CL-7	124.6700	95.9300	102.9036	22	31	6.9736	21.7664	12.5660	0.0000	0.0000	0.0000
CD-30	101.6000	98.1000	102.9031	22	30	4.8031	0.0000	20081.160	0.0000	0.0000	0.0000
CJ-51	101.8100	96.3400	102.9030	22	30	6.5630	0.0000	14915.732	0.0000	0.0000	0.0000
CJ-52	101.8100	96.0700	102.9028	22	30	6.8328	0.0000	14912.505	0.0000	0.0000	0.0000
CP-1	103.2300	98.7300	102.9029	22	30	4.1729	0.3271	12.5660	0.0000	0.0000	0.0000
CJ-53	101.8100	96.0000	102.9026	22	29	6.9026	0.0000	14909.565	0.0000	0.0000	0.0000
CR-25	125.6800	96.6800	102.8578	23	4	6.1778	22.8222	12.5660	0.0000	0.0000	0.0000
CR-15	102.5700	98.0700	102.8521	23	14	4.7821	0.0000	6629.7385	0.0000	0.0000	0.0000
CR-16	102.9800	96.3200	102.8513	23	14	6.5313	0.1287	19542.895	0.0000	0.0000	0.0000
CR-18	103.2500	94.8600	102.8336	23	24	7.9736	0.4164	18339.704	0.0000	0.0000	0.0000
CR-19	102.1300	95.3200	102.8040	23	42	7.4840	0.0000	20081.160	0.0000	0.0000	0.0000
CR-21	99.1000	95.5600	102.7869	24	10	7.2269	0.0000	199611.74	0.0000	0.0000	0.0000
CR-36	100.1500	97.1500	102.7983	23	55	5.6483	0.0000	20081.160	0.0000	0.0000	0.0000
CR-6	103.5400	94.2500	102.8726	22	52	8.6226	0.6674	12.5660	0.0000	0.0000	0.0000
CR-8	98.5000	97.2600	102.8860	22	44	5.8860	0.0000	401585.34	0.0000	0.0000	0.0000
CR-8a	98.5000	93.8500	102.8863	22	43	9.0363	0.0000	401730.52	0.0000	0.0000	0.0000
CR-9	124.2200	118.6800	102.8860	22	43	0.0000	21.3340	12.5660	0.0000	0.0000	0.0000
CR-10a	122.5000	97.6500	102.9013	24	58	5.2513	19.5987	12.5660	0.0000	0.0000	0.0000
CR-45	102.0000	94.8900	102.8835	22	40	7.9935	0.0000	20081.160	0.0000	0.0000	0.0000
CR-31	101.9100	95.0000	102.8668	22	47	7.8668	0.0000	20081.160	0.0000	0.0000	0.0000
CR-30	101.0600	95.5100	102.7913	23	18	7.2813	0.0000	20081.160	0.0000	0.0000	0.0000
CR-29	100.2900	97.2900	102.6363	24	17	5.3463	0.0000	20081.160	0.0000	0.0000	0.0000
CR-33	99.5000	96.2000	102.7445	24	16	6.5445	0.0000	128242.32	0.0000	0.0000	0.0000
CR-27	100.5600	97.5600	102.6364	24	16	5.0764	0.0000	20081.160	0.0000	0.0000	0.0000
CR-33a	126.5000	95.8000	102.7447	24	16	6.9447	23.7553	12.5660	0.0000	0.0000	0.0000
CR-34a	99.5000	95.7500	102.7499	24	1	6.9999	0.0000	128935.14	0.0000	0.0000	0.0000
CR-34	121.5000	95.8000	102.7500	24	1	6.9500	18.7500	12.5660	0.0000	0.0000	0.0000
CR-32	111.7100	97.5400	102.6269	24	35	5.0869	9.0831	12.5660	0.0000	0.0000	0.0000
CR-MH32	111.5000	96.0000	102.7450	24	17	6.7450	8.7550	12.5660	0.0000	0.0000	0.0000
CR-12	102.7600	96.8600	102.8849	22	38	6.0249	0.0000	5665.1158	0.0000	0.0000	0.0000
CR-11	102.7600	98.2600	102.9034	24	54	4.6434	0.0000	5827.1253	0.0000	0.0000	0.0000
CE-8	119.6500	98.3800	102.9058	21	50	4.5258	16.7442	12.5660	0.0000	0.0000	0.0000
CF-3	115.4200	110.1300	102.9049	21	49	0.0000	12.5151	12.5660	0.0000	0.0000	0.0000
CJ-35	103.4100	97.7300	102.9047	21	49	5.1747	0.5053	12.5660	0.0000	0.0000	0.0000
CR-40	124.2000	119.9100	118.9226	16	0	0.0300	6.1774	12.5660	0.0000	0.0000	0.0000
CR-39	124.2000	118.8900	117.8870	16	0	0.0000	6.3130	12.5660	0.0000	0.0000	0.0000
CR-28	99.1000	97.3300	102.6267	24	35	5.2967	0.0000	170050.48	0.0000	0.0000	0.0000
CG-6	103.3200	98.8200	102.9104	22	7	4.0904	0.4096	18368.270	0.0000	0.0000	0.0000
CJ-54	101.9000	95.8700	102.9022	22	5	7.0322	0.0000	13621.780	0.0000	0.0000	0.0000
CD-32	101.9000	97.4000	102.9026	22	4	5.5026	0.0000	20081.160	0.0000	0.0000	0.0000
CJ-55	102.2000	95.7400	102.9018	22	5	7.1618	0.0000	10087.174	0.0000	0.0000	0.0000
CJ-56	102.2000	95.5700	102.9013	22	5	7.3313	0.0000	10081.640	0.0000	0.0000	0.0000
CJ-57	102.2000	95.4100	102.9007	22	29	7.4907	0.0000	10076.166	0.0000	0.0000	0.0000
CJ-58	195.5000	95.2400	102.9003	21	59	7.6603	92.5997	12.5660	0.0000	0.0000	0.0000
CJ-59	195.5000	95.1800	102.9000	22	59	7.7200	92.6000	12.5660	0.0000	0.0000	0.0000
CR-3	100.5000	97.4600	102.8862	22	42	5.4262	0.0000	54360.153	0.0000	0.0000	0.0000
CR-4	195.5000	97.0100	102.8863	22	48	5.8763	92.6137	12.5660	0.0000	0.0000	0.0000
CR-5	101.1000	98.0000	102.8871	22	47	4.8871	0.0000	29861.146	0.0000	0.0000	0.0000
CR-MH5	100.5000	97.9000	102.8870	22	48	4.9870	0.0000	54405.952	0.0000	0.0000	0.0000
CP-2	102.4100	97.9100	102.9031	22	5	4.9931	0.0000	8186.7778	0.0000	0.0000	0.0000
CP-3	102.8900	98.3900	103.0414	24	57	4.6514	0.0000	5875.0286	0.0000	0.0000	0.0000
CJ-19	106.1100	98.7000	103.7199	16	55	5.0199	2.3901	12.5660	0.0000	0.0000	0.0000
CJ-23	105.1200	98.4000	103.2910	16	55	4.8910	1.8290	12.5660	0.0000	0.0000	0.0000
CJ-39	102.8100	97.2900	102.9030	22	26	5.6130	0.0000	5487.5081	0.0000	0.0000	0.0000
CG-5	102.9000	98.5900	102.8087	22	5	4.3187	0.0000	20081.160	0.0000	0.0000	0.0000
CC-54	127.9400	123.1500	104.2267	16	55	0.0000	23.7133	12.5660	0.0000	0.0000	0.0000
BW8-SW	103.3100	99.1100	106.5537	17	41	7.4437	0.0000	128143.21	0.0000	0.0000	0.0000
BW8-SE	103.2500	94.6000	102.8336	23	24	8.2336	0.4164	12.5660	0.0000	0.0000	0.0000
SNT01	105.5000	81.4500	98.0004	16	55	16.5504	7.4996	15000.000	0.0000	0.0000	0.0000
CK-3H	102.0000	98.6650	103.4269	17	7	4.7619	0.0000	20829.480	0.0000	0.0000	0.0000
CC-56	121.2700	99.2600	103.1303	16	55	3.8703	18.1397	12.5660	0.0000	0.0000	0.0000

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| Table E10 - CONDUIT SUMMARY STATISTICS |
| Note: The peak flow may be less than the design flow |
| and the conduit may still surcharge because of the |
| downstream boundary conditions. |
| |
| * denotes an open conduit that has been overtopped |
| this is a potential source of severe errors |
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Conduit Name	Design Flow (cfs)	Conduit Design Velocity (ft/s)	Maximum Vertical Depth (in)	Maximum Computed Flow (cfs)	Time of Occurence Hr.	Time of Occurence Min.	Maximum Computed Velocity (ft/s)	Time of Max. to Design Hr.	Time of Max. to Design Min.	Ratio of Max. to Design Flow	Maximum Water Elev at Pipe Ends Upstream (ft)	Maximum Water Elev at Pipe Ends Dwnstrm (ft)	Ratio d/D US	Ratio d/D DS
L-CC-3	13.4110	7.5891	18.0000	3.4091	16	0	4.6271	15	58	0.2542	105.1270	105.0835	0.791	1.849
L-CC-2	17.5142	9.9110	18.0000	10.2905	16	15	9.9529	15	53	0.5876	105.0835	104.3853	1.849	3.237
L-CC-1	12.8378	4.0864	24.0000	16.1483	17	31	5.0810	17	31	1.2579	104.3853	104.2812	3.178	3.221
L-CC-4	12.6757	4.0348	24.0000	16.3918	16	56	5.1518	16	56	1.2932	104.2812	104.1830	3.221	3.441

L-CC-5	43.5831	8.8787	30.0000	17.5770	16	55	3.5483	16	55	0.4033	104.1830	104.1707	2.753	3.028
L-CC-8	15.8612	8.9756	18.0000	6.6482	16	0	7.8167	16	0	0.4191	119.2777	118.8199	0.452	0.527
L-CC-7	15.8954	8.9950	18.0000	8.6523	16	0	9.1849	16	0	0.5443	118.8199	117.2391	0.527	0.526
L-CC-6	29.0590	9.2498	24.0000	12.9351	15	59	7.8131	15	49	0.4451	104.2381	104.1654	2.369	2.828
L-CC-9	20.8747	11.8127	18.0000	3.6122	15	59	2.0105	15	59	0.1730	104.2941	104.1512	3.709	5.167
L-CC-11	15.5805	8.8167	18.0000	0.0000	0	0	0.0000	0	0	0.0000	112.1400	112.1400	.0000	.0000
L-CC-12	15.7445	8.9096	18.0000	0.0000	0	0	0.0000	0	0	0.0000	104.0354	104.0354	.0000	.0000
L-CC-13	41.1522	13.0992	24.0000	4.2689	15	59	5.5798	15	48	0.1037	104.0354	104.0294	1.768	2.675
L-CC-14	23.7049	13.4142	18.0000	5.6138	15	59	6.3300	15	39	0.2368	104.1144	103.9575	2.410	4.138
L-CC-21	5.7028	3.2271	18.0000	3.1536	16	0	2.6834	16	0	0.5530	111.4030	111.2676	0.589	0.685
L-CC-20	5.7666	3.2632	18.0000	5.1452	16	0	4.3267	16	0	0.8922	111.2676	110.8927	0.685	0.582
L-CC-19	33.9558	10.8085	24.0000	18.1464	16	2	10.0652	15	45	0.5344	104.9675	104.0878	1.599	3.074
L-CC-22	35.3192	11.2425	24.0000	18.4259	15	58	9.6086	15	39	0.5217	104.0878	103.9320	3.074	3.386
L-CC-18	7.9999	4.5270	18.0000	1.7308	16	1	1.8631	15	59	0.2164	105.2171	105.1997	1.191	1.566
L-CC-17	8.2489	4.6679	18.0000	6.2713	16	1	4.9902	15	59	0.7603	105.1997	105.0458	1.566	1.711
L-CC-16	12.9674	4.1277	24.0000	8.3160	16	2	4.5736	15	58	0.6413	105.0458	104.9675	1.523	1.599
L-CC-15	5.7535	3.2558	18.0000	1.8885	16	57	2.5142	15	43	0.3282	105.0653	105.0458	1.524	1.711
L-CC-23	11.7442	6.6459	18.0000	4.2405	15	59	4.7120	15	40	0.3611	103.9477	103.8880	3.965	4.192
L-CC-24	0.3322	0.0000	18.0000	5.6895	15	59	3.5896	15	49	17.1280	103.8592	103.7976	3.906	3.865
L-CC-29	33.5591	18.9906	18.0000	8.7187	16	1	10.7402	16	1	0.2598	115.9113	104.0648	0.208	2.517
L-CC-28	53.7170	10.9431	30.0000	21.2613	16	0	8.0352	15	40	0.3958	104.0649	103.6774	1.510	2.535
L-CC-31	53.4798	10.8948	30.0000	21.4390	16	0	7.5817	15	37	0.4009	103.6774	103.6311	2.535	2.720
L-CC-27	5.7535	3.2558	18.0000	4.0383	16	0	2.6921	16	0	0.7019	104.1441	104.0844	1.036	1.116
L-CC-26	12.5486	3.9944	24.0000	16.2575	16	0	5.6154	15	58	1.2956	104.0844	104.0042	1.797	1.837
L-CC-30	12.0922	3.8491	24.0000	15.4065	16	0	6.5143	15	58	1.2741	104.0042	104.0648	1.837	1.887
L-CC-25	5.9111	3.3450	18.0000	4.3662	16	0	3.5391	16	1	0.7386	104.1217	104.0844	1.014	1.116
L-CC-32	14.0930	7.9750	18.0000	8.6643	15	58	6.6629	15	41	0.6148	103.9954	103.6275	4.190	4.305
L-CC-38	9.7035	5.4911	18.0000	5.0658	16	0	5.5498	16	0	0.5221	122.4104	121.1295	0.514	0.513
L-CC-33	26.9445	8.5767	24.0000	21.2856	16	14	8.8948	15	50	0.7900	104.9760	103.6450	2.558	3.112
L-CC-34	39.6161	12.6102	24.0000	21.4566	16	0	9.9054	15	37	0.5416	103.6450	103.5793	3.112	3.540
L-CC-37	5.6656	3.2061	18.0000	3.2739	16	0	2.7790	15	59	0.5779	105.2784	105.2693	1.906	2.006
L-CC-36	17.8846	5.6928	24.0000	13.9657	16	0	6.0685	15	58	0.7809	105.2693	104.9760	2.225	2.328
L-CC-35	5.7535	3.2558	18.0000	2.3844	16	0	2.6465	15	59	0.4144	105.2762	105.2693	1.831	2.006
L-CC-39	19.8381	11.2261	18.0000	8.0582	15	58	8.0268	15	41	0.4062	104.2241	103.6051	4.223	4.523
L-CC-46	5.8065	3.2858	18.0000	6.1483	16	56	3.4785	16	56	1.0589	105.2391	104.9979	2.726	2.639
L-CC-45	5.7535	3.2558	18.0000	10.2393	16	56	5.7425	16	56	1.7797	104.9979	104.5763	2.639	2.518
L-CC-57	10.9820	6.2146	18.0000	15.6172	16	55	10.8401	16	55	1.4221	104.5763	106.0924	2.204	3.528
L-CC-40	89.0940	4.9497	36.0000	108.0480	17	8	5.9532	17	8	1.2127	106.0924	105.9152	3.564	3.555
L-CC-43	131.8751	5.4948	48.0000	109.5825	17	7	4.5433	17	7	0.8310	105.9152	104.1123	2.666	2.283
L-CC-44	141.4014	5.8917	48.0000	110.8392	17	7	4.5951	17	7	0.7839	104.1124	103.8853	2.283	2.251
L-CC-42	16.2733	9.2088	18.0000	17.3681	16	56	9.7834	16	56	1.0673	104.6882	106.0924	1.879	3.455
L-CC-49	2.0031	1.1335	18.0000	-17.9628	16	56	-10.0143	16	56	-8.9675	106.3018	106.2178	3.841	3.799
L-CC-48	5.7734	3.2671	18.0000	16.5272	16	56	9.2297	16	56	2.8626	106.2178	106.0992	3.785	3.899
L-CC-47	5.9492	3.3665	18.0000	17.2200	16	56	9.6789	16	56	2.8945	106.0992	105.9151	3.899	3.890
L-CC-56	10.5043	5.9442	18.0000	4.6477	15	59	5.3727	15	57	0.4425	104.1492	104.1063	2.766	2.971
L-CD-1	45.3839	25.6820	18.0000	-2.0558	15	59	-1.2504	15	59	-0.0453	103.9334	103.9319	1.936	4.175
L-CD-2	44.4284	25.1413	18.0000	14.7740	16	27	21.0634	15	42	0.3325	104.2227	103.8880	2.268	4.192
L-CD-3	44.1516	24.9847	18.0000	1.4771	15	58	1.6439	15	58	0.0335	103.8330	103.8228	2.082	4.195
L-CD-4	45.5188	25.7584	18.0000	3.0448	15	58	9.7164	15	37	0.0669	103.7513	103.7454	1.948	4.197
L-CD-5	47.5604	26.9137	18.0000	-0.8070	15	58	-0.8465	15	58	-0.0170	103.6707	103.6652	1.740	4.197
L-CD-6	48.7066	27.5623	18.0000	12.6330	15	58	20.2889	15	39	0.2594	103.7515	103.6133	1.788	4.276
L-CD-7	47.8175	27.0592	18.0000	1.3624	15	58	1.4934	15	58	0.0285	103.6393	103.6079	1.853	4.319
L-CD-8	48.0094	27.1678	18.0000	1.4534	15	58	1.5996	15	58	0.0303	103.6137	103.5855	1.902	4.390
L-CD-9	190.1886	38.7449	30.0000	2.5700	15	58	1.0970	15	58	0.0135	103.6121	103.5688	1.105	2.636
L-CD-10	49.1451	27.8105	18.0000	13.9015	15	58	20.7794	15	43	0.2829	103.9111	103.5882	2.141	4.552
L-CD-11	47.6891	26.9865	18.0000	5.0958	15	58	13.7211	15	43	0.1069	104.3493	103.7562	2.653	4.731
L-CD-13	9.9070	3.1535	24.0000	-7.1326	16	55	-2.5416	16	0	-0.7200	104.4400	104.3964	2.020	2.068
L-CD-12	115.0915	16.2821	36.0000	-12.5699	15	58	-2.7722	15	58	-0.1092	104.3964	103.8853	1.712	3.308
L-CJ-1	47.5882	3.7870	48.0000	18.5767	16	55	1.6553	15	38	0.3904	104.1706	104.1654	1.893	1.914
L-CJ-27	47.6411	3.7912	48.0000	27.0089	15	58	2.4085	15	45	0.5669	104.1654	104.1512	1.914	1.938
L-CJ-28	47.8811	3.8103	48.0000	50.9993	15	58	4.6755	15	44	1.0651	104.1512	104.1063	1.938	1.947
L-CJ-2	45.4240	3.6147	48.0000	55.2529	15	58	5.0815	15	43	1.2164	104.1063	104.0904	1.947	1.948
L-CJ-2a	57.8442	4.6031	48.0000	55.7523	15	58	5.1927	15	38	0.9638	104.0904	104.0294	1.948	1.962
L-CJ-3	48.1794	3.8340	48.0000	57.9076	15	57	5.7927	15	37	1.2019	104.0294	103.9576	1.962	1.967
L-CJ-29	81.2503	4.0625	48.0000	59.1018	15	58	2.9512	15	58	0.7274	103.9576	103.9320	2.217	2.233
L-CJ-4	75.9448	3.7972	48.0000	76.5147	15	58	3.8206	15	58	1.0075	103.9319	103.8880	2.233	2.239
L-CJ-5	78.6874	3.9344	48.0000	92.4356	15	58	4.6154	15	58	1.1747	103.8880	103.8228	2.239	2.241
L-CJ-6	84.9574	4.2479	48.0000	92.0735	15	58	4.5976	15	58	1.0838	103.8228	103.7976	2.241	2.242
L-CJ-6a	77.5551	3.8778	48.0000	95.6256	15	57	4.7753	15	57	1.2330	103.7976	103.7453	2.242	2.241
L-CJ-7	81.1884	4.0594	48.0000	97.3212	15	57	4.8601	15	57	1.1987	103.7453	103.6652	2.241	2.241
L-CJ-8	89.5529	4.4776	48.0000	97.1838	15	57	4.8534	15	57	1.0852	103.6652	103.6310	2.241	2.243
L-CJ-8a	110.0271	4.4011	60.0000	112.2279	15	57	4.8716	15	56	1.0200	103.6311	103.6133	1.794	1.815
L-CJ-9	104.8630	4.1945	60.0000	125.5256	15	57	5.3225	15	56	1.1970	103.6133	103.6275	1.815	1.825
L-CJ-10	121.0853	4.8434	60.0000	135.3797	15	57	5.6808	15	57	1.1181	103.6275	103.6079	1.825	1.830
L-CJ-11	104.8630	4.1945	60.0000	128.8231	15	57	5.5319	15	56	1.2285	103.6079	103.5855	1.830	1.839
L-CJ-12	124.0755	4.9630	60.0000	129.3916	15	57	5.5784	15	56	1.0428	103.5855	103.5794	1.839	1.852
L-CJ-12a	66.3212	2.6528	60.0000	146.4021	16	1	6.3580	15	56	2.2075	103.5794	103.5687	1.852	1.852
L-CJ-13	118.6389	4.7456	60.0000	146.1238	16	1	6.3265	15	54	1.2317	103.5688	103.6051	1.852	1.891
L-CJ-14	93.7923	3.7517	60.0000	151.2127	16	1	6.6298	15	54	1.6122	103.6051	103.5882	1.891	1.900
L-CJ-15	107.0253	4.2810	60.0000	162.1137	16	1	7.2833	15	43	1.5147	103.5881	103.7562	1.900	1.953
L-CJ-16	110.5353	4.4214	60.0000	166.2879	16	1	8.1647	15	42	1.5044	103.7562	103.8846	1.953	2.001
L-CJ-17	269.5645	5.6178	72.0000	198.3246	16	2	4.4150	15	53	0.7357	103.8853	103.8808	1.834	1.843
L-CC-50	32.0913	18.1600	18.0000	8.0872	16	55	4.5249	16	55	0.2520	104.8116	103.8808	2.568	4.934
L-CC-52	5.8590	3.3155	18.0000	6.0611	16	56	7.1151	15	58	1.0345	104.9130	103.8238	2.815	2.183
L-CC-51	31.2199	17.6668	18.0000	6.9086	15	58	11.6347	15	46	0.2213	103.8238	103.7199	2.183	4.940
L-CC-53	5.7121	3.2324	18.0000	4.2611	16	1	3.8502	16	1	0.7460	123.1919	122.4408	0.661	0.527
L-CC-54	27.1027	15.3370	18.0000	9.7839	15	58	9.8212	15	45	0.3610	104.2267	103.5387	3.818	4.912
L-CC-55	28.2977	16.0132	18.0000	7.9392	15	58	11.5385	15	45	0.2806	103.7630	103.0226	3.509	4.708
L-CD-14	43.5927	24.6684	18.0000	11.4862	16	15	16.7767	15	45	0.2635	103.7479	103.5885	2.965	4.926
L-CD-15	29.6074	16.7544	18.0000	4.8173	15	58	10.7506	15	45	0.1627	103.3544	103.2909	3.903	4.814
L-CD-16	122.2895	24.9126	30.0000	15.7643	16	56	10.5258	15	44	0.1289	102.9061	102.9194	2.162	2.808
L-CD-17	31.9956	18.1058	18.0000	-10.4901	16	55	13.6492	15	43	-0.3279	102.9059	102.9056	3.724	4.837
L-CD-18	34.9268	19.7645	18.0000	-8.5521	16	55	-4.7526	16	55	-0.2449	102.9056	102.9054	3.577	4.904
L-CD-19	35.6219	20.1579	18.0000	9.0268	16	15	12.7092	15	41	0.2534	102.9049	102.9047	3.663	5.043
L-CD-20	33.1252	18.7450	18.0000	8.1126	18	3	13.0372	15	41	0.2449	102.9045	102.9044	3.930	5.123
L-CD-21	30.2222	17.1022	18.0000	8.9261	25	12	12.3009	15	41	0.2953	102.9041	102.9040	4.196	5.189
L-CD-22	34.2176	19.3632	18.0000	14.3743	16	0	16.9714	15	41	0.4201	102.9037	102.9037	3.996	5.269
L-CD-23	137.4057	27.9921	30.0000	16.4197	16	0	16.9945	15	40	0.1195	102.9030	102.9030	2.437	3.245
L-CD-24	32.0913	18.1600	18.0000	14.5489	16	10	16.4870	15	41	0.4534	102.9033	102.9031	4.329	5.449
L-CD-27	35.1019	19.8636	18.0000	31.1738	16	3	18.5230	15	41	0.8881	102.9037	102.9034	4.329	5.669
L-CD-28	38.5159	21.7955	18.0000	21.2111	16	15	16.3794	15	39	0.5507	102.9037	102.9034	4.129	5.742
L-CD-29	41.5036	23.4862	18.0000	20.9384	16	15	21.5416	15	36	0.4828	102.9037	102.9033	4.442	6.316
L-CD-30	128.2583	26.1286	30.0000	26.0424	25	26	8.9855	15	37	0.2030	102.9031	102.9030	2.921	3.625
L-CD-31	33.7667	19.1081	18.0000	20.6778	25	33	13.3481	15	39	0.6124	102.9031	102.9028	4.869	6.109
L-CD-32	36.0836	20.4191	18.0000	15.0221	25	26	8.3315	25	26	0.4163	102.9026	102.9022	4.668	6.241
L-CE-1	5.6270	3.1842	18.0000	-4.4947	16	0	-2.5775	16	0	-0.7988	104.1228	103.6202	2.815	2.700
L-CE-2	11.3198	6.4057	18.0000	4.6551	16	0	-3.2135	15	59	0.4112	103.6202	102.9101	2.700	3.427
L-CE-3	17.0712	5.4339	24.0000	11.4526	16	0	5.1248	15	54	0.6709	102.9101	102.9098	2.570	2.980
L-CE-4	18.2606	3.7200	30.0000	15.1261	16	0	3.9594	15	46	0.8283	102.9098	102.9083	2.584	2.671
L-CE-5	29.8284	4.2199	36.0000	31.7734	16	0	5.3245	15	47	1.0652	102.9083	102.9076	2.393	2.443
L-CE-6	44.9941	4.6766	42.0000	36.6164	16	0	3.9592	15	47	0.8138	102.9076	102.9073	2.236	2.256
L-CE-7	27.7405	2.8833	42.0000	40.7869	16	0	4.8890	15	46	1.4703	102.9073	102.9058	2.256	2.293
L-CE-8	89.9881	9.3532	42.0000	41.0282	16	0	5.2397	15	29	0.4559	102.9058	102.9054	2.579	2.670
L-CE-9	9.6528	5.4624	18.0000	8.3111	15	59	5.3738	15	58	0.8610	103.4509	102.9101	3.201	3.093
L-CE-11	9.3954	5.3167	18.0000	-6.5387	15	59	-3.6615	15	59	-0.6960	102.9100	102.9098	3.733	3.973
L-CE-10	22.9178	12.9688	18.0000	6.5183	15	59	7.6829	15	41	0.2844	102.9051	102.9049	3.423	5.010
L-CF-1	5.7535	3.2558	18.0000	2.6148	16	0	2.2658	16	0	0.4545	110.3086	110.1670	0.532	0.738
L-CF-2	5.7203	3.2370	18.0000	5.2192	16	1	4.1664	16	1	0.9124	110.1670	109.5093	0.738	0.586
L-CF-3	8.8511	5.0087	18.0000	5.8129	16	0	4.5924	15	43	0.6567	102.9049	102.9044	4.603	5.076
L-CG-1	9.7877	5.5387	18.0000	5.7939	25	33	4.7898	25	33	0.5920	102.9062	102.9060	2.444	3.191
L-CG-2	10.0302	3.1927	24.0000	19.0469	25	31	6.9274	25	31	1.8990	102.9060	102.9056	2.643	2.758
L-CG-3	25.9415	5.2848	30.0000	27.3940	15	58	5.5532	15	58	1.0560	102.9056	102.9040	2.926	3.110
L-CG-8	25.9415	5.2848	30.0000	31.6710	15	58	6.4230	15	58	1.2209	102.9039	102.9034	3.110	3.349
L-CG-9	36.5322	5.1683	36.0000	37.2478	15	58	5.5007	15	37	1.0196	102.9034	102.9035	2.968	2.998
L-CG-10	48.2390	6.8244	36.0000	40.3074	15	58	6.3019	15	36	0.8356	102.9035	102.9037	2.998	3.111
L-CG-11	7.0235	3.9745	18.0000	3.9557	25	31	3.0278	15	52	0.5632	102.9104	102.9104	3.474	3.727
L-CG-6	4.7182	2.6700	18.0000	4.9934	15	59	3.4656	15	50	1.0583	102.9104	102.9087	3.727	3.879
L-CG-5	10.2314	3.2567	24.0000	9.8913	25	28	3.1147	25	28	0.9668	102.9087	102.9073	3.159	3.249

L-CG-4	18.4010	3.7486	30.0000	16.8105	15	58	3.4075	15	58	0.9136	102.9073	102.9056	2.799	2.926
L-CG-7	12.9601	7.3339	18.0000	10.5539	16	15	5.8624	16	15	0.8143	102.9759	102.9073	3.797	4.665
L-CH-1	13.6322	7.7143	18.0000	7.6174	16	0	6.7292	15	41	0.5588	102.9031	102.9030	4.269	5.335
L-CH-2	14.4445	8.1739	18.0000	-1.9286	15	58	-1.0859	15	58	-0.1335	102.9036	102.9034	4.269	4.962
L-CH-3	15.1704	8.5847	18.0000	-3.4099	15	59	-1.9108	15	59	-0.2248	102.9034	102.9031	4.962	5.449
L-CK-1	10.0692	3.2051	24.0000	16.1224	25	26	5.0950	25	26	1.6012	105.3025	105.3019	3.696	3.801
L-CK-2	10.1170	3.2204	24.0000	42.0134	15	30	13.2413	15	19	4.1527	105.3019	103.9722	4.246	3.661
L-CK-3	18.3434	3.7369	30.0000	44.2004	15	31	8.9293	15	19	2.4096	103.9722	103.8643	3.129	3.106
L-CK-4	39.6782	8.0832	30.0000	51.3286	15	47	10.5093	15	47	1.2936	103.8643	102.9996	3.106	3.576
L-CK-5	44.3036	9.0254	30.0000	51.2826	15	47	10.7033	15	47	1.1575	102.9996	102.9033	3.576	3.733
L-CK-6	10.7124	6.0620	18.0000	4.0546	16	15	4.4801	16	15	0.3785	116.3099	115.0275	0.427	0.612
L-CK-7	10.8827	6.1583	18.0000	7.5180	16	15	6.6442	16	15	0.6908	115.0275	113.4171	0.612	0.611
L-CK-8	21.5275	12.1821	18.0000	6.6439	15	59	8.6049	15	39	0.3086	102.9135	102.9034	4.109	5.642
L-CK-9	20.2265	11.4459	18.0000	6.3595	15	59	7.1545	15	39	0.3144	102.9038	102.9034	4.103	5.709
L-CL-9	4.7410	2.6828	18.0000	14.6172	26	21	8.1913	26	21	3.0832	102.9013	102.8996	3.774	3.920
L-CL-1	5.8096	3.2876	18.0000	14.6098	26	20	8.2665	26	21	2.5148	102.8996	102.8985	3.920	4.092
L-CL-2	8.7305	2.7790	24.0000	22.7737	26	19	7.1908	26	19	2.6085	102.8985	102.8980	3.319	3.354
L-CL-3	10.3346	3.2896	24.0000	22.8533	26	14	7.2110	26	14	2.2113	102.8980	102.8964	3.354	3.473
L-CL-8	19.4903	6.2040	24.0000	22.8586	26	14	7.2268	26	14	1.1728	102.8964	102.8965	3.473	3.833
L-CL-4	17.8448	5.6802	24.0000	22.8715	26	14	7.2378	26	14	1.2817	102.8965	102.8990	3.833	4.114
L-CL-4a	17.8448	5.6802	24.0000	22.8844	26	14	7.2499	26	14	1.2824	102.8990	102.9025	4.114	4.396
L-CL-5	31.7717	6.4725	30.0000	22.8986	26	14	5.8778	15	43	0.7207	102.9025	102.9029	3.517	3.589
L-CL-6	103.0543	20.9940	30.0000	23.1920	25	24	4.6469	25	24	0.2250	102.9029	102.9033	3.789	5.001
L-CL-7	8.4689	4.7924	18.0000	10.5442	15	59	5.9010	15	59	1.2451	102.9036	102.9031	5.649	5.995
L-CP-1	31.3375	17.7334	18.0000	1.8589	15	59	2.2550	15	59	0.0593	102.9029	102.9026	3.782	6.155
L-CP-3	5.7535	3.2558	18.0000	7.2392	25	59	4.0213	25	59	1.2582	103.0414	102.9031	4.101	4.329
L-CP-2	22.9739	13.0005	18.0000	8.5520	25	0	4.7267	25	0	0.3722	102.9031	102.9022	4.329	6.241
L-CR-5	10.6643	3.3946	24.0000	26.4080	25	50	8.3278	25	50	2.4763	102.8871	102.8870	3.444	3.494
L-CR-MH5	121.0412	17.1238	36.0000	27.3578	25	51	3.8320	25	51	0.2260	102.8870	102.8862	2.662	4.309
L-CR-4	164.9458	4.2860	84.0000	11.0064	25	52	-0.4624	14	49	0.0667	102.8863	102.8862	1.839	1.847
L-CR-3	204.9410	4.6389	90.0000	35.4916	25	46	1.1634	28	20	0.1732	102.8862	102.8860	1.723	1.758
L-CR-8	236.9704	5.3639	90.0000	169.5867	25	46	3.8267	25	46	0.7156	102.8860	102.8860	1.758	1.771
L-CR-9	198.2636	4.4878	90.0000	280.0891	25	47	6.3206	25	47	1.4127	102.8860	102.8948	1.771	1.786
L-CR-10	1121.248	19.7594	102.0000	280.1739	25	47	4.9275	25	47	0.2499	102.8948	102.9002	1.576	1.618
L-CR-8a	43.5653	4.5281	42.0000	122.6789	25	53	12.6060	25	53	2.8160	102.8863	102.8860	3.582	3.599
L-CR-41	12.1893	3.8800	24.0000	2.1965	16	1	3.0316	16	1	0.1802	115.4312	114.8034	0.301	0.257
L-CR-34	5.8721	3.3229	18.0000	8.5662	16	0	5.5006	15	56	1.4588	102.7500	102.7499	5.633	5.700
L-CR-32	5.7535	3.2558	18.0000	7.6595	16	15	5.6424	28	12	1.3313	102.6269	102.6267	4.391	4.531
L-CR-MH32	5.6148	3.1773	18.0000	9.2735	27	21	5.1773	27	21	1.6516	102.7450	102.7447	5.497	5.630
L-CR-33a	5.8721	3.3229	18.0000	14.0583	27	21	7.7947	27	21	2.3941	102.7447	102.7445	5.630	5.696
L-CR-33	12.3908	3.9441	24.0000	34.5990	27	0	10.8716	27	0	2.7923	102.7445	102.7499	4.272	4.500
L-CR-34a	13.0202	4.1444	24.0000	39.9768	26	33	12.5860	26	38	3.0704	102.7499	102.9013	4.500	4.841
L-CR-11	10.7922	6.1071	18.0000	9.8865	16	0	6.9256	16	0	0.9161	102.9034	102.8849	4.096	5.350
L-CR-28	12.7500	4.0585	24.0000	23.0000	27	18	7.2057	27	18	1.8039	102.6267	102.6363	4.168	4.308
L-CR-27	5.8518	3.3115	18.0000	18.4101	28	12	10.3606	28	12	3.1461	102.6364	102.6363	4.384	4.564
L-CR-29	12.2829	3.9098	24.0000	37.5259	27	20	11.8393	27	20	3.0551	102.6363	102.7913	4.308	4.641
L-CR-30	22.4660	4.5767	30.0000	49.9830	25	59	10.0672	25	59	2.2248	102.7913	102.8668	3.913	4.147
L-CR-31	24.0484	4.8991	30.0000	49.7999	25	59	10.0622	25	59	2.0708	102.8668	102.8835	4.147	4.197
L-CR-45	104.2890	6.5573	54.0000	50.7802	25	34	3.1552	25	34	0.4869	102.8835	102.8849	3.187	3.228
L-CR-88	12.2309	3.8932	24.0000	6.4305	16	0	3.9982	16	0	0.5258	118.2249	118.0226	0.512	0.506
L-CR-40	12.2388	3.8957	24.0000	6.4281	16	0	4.0650	16	0	0.5252	118.0226	117.8870	0.506	0.498
L-CR-39	12.3032	3.9162	24.0000	6.4271	16	0	4.3602	16	1	0.5224	117.8870	117.5773	0.498	0.449
L-CR-37	10.2459	3.2614	24.0000	10.9023	27	39	3.3202	27	39	1.0641	102.7970	102.7970	4.413	4.493
L-CR-22	53.0542	16.8877	24.0000	14.1637	27	35	4.4790	27	35	0.2670	102.7870	102.7869	4.119	4.613
L-CR-21	29.2054	9.2964	24.0000	31.1170	26	57	9.7157	26	57	1.0655	102.7869	102.7959	4.613	5.118
L-CR-25	11.3112	3.6005	24.0000	7.8676	16	0	4.3683	15	49	0.6956	102.8578	102.8575	4.089	4.129
L-CR-24	14.2874	8.0850	18.0000	3.2526	25	12	1.8015	25	12	0.2277	102.8576	102.8575	4.252	5.238
L-CR-15	4.6977	2.6583	18.0000	9.0540	25	54	5.0311	25	54	1.9273	102.8521	102.8520	4.188	4.295
L-CR-13	3.0556	1.7291	18.0000	15.7529	26	0	8.8147	26	0	5.1554	102.8528	102.8520	4.062	4.135
L-CR-14	12.3349	3.9263	24.0000	22.2245	25	59	6.9703	25	59	1.8018	102.8520	102.8513	4.101	4.266
L-CR-16	10.3918	3.3078	24.0000	22.1665	25	59	6.9683	25	59	2.1331	102.8513	102.8504	4.266	4.380
L-CR-35	5.7535	3.2558	18.0000	19.4992	27	56	10.9551	27	56	3.3891	102.7994	102.7983	4.566	4.766
L-CR-36	10.1170	3.2204	24.0000	38.0161	27	40	12.9311	27	40	3.7576	102.7983	102.7970	3.824	3.948
L-CR-38	18.3434	3.7369	30.0000	61.4899	27	35	12.4393	27	35	3.3522	102.7970	102.7959	3.795	3.894
L-CR-20	29.2258	4.1346	36.0000	65.4274	27	18	9.1784	27	18	2.2387	102.7959	102.8040	3.412	3.495
L-CR-19	30.1580	4.2665	36.0000	65.4336	27	18	9.2040	27	18	2.1697	102.8040	102.8336	3.495	3.658
L-CR-18	24.9563	3.5306	36.0000	68.0225	15	56	9.5593	15	56	2.7257	102.8336	102.8504	3.678	3.730
L-CR-17	46.3788	4.8205	42.0000	79.5002	15	57	8.2241	15	57	1.7141	102.8504	102.8575	3.340	3.391
L-CR-23	44.0850	4.5821	42.0000	87.1735	15	59	9.0210	15	59	1.9774	102.8575	102.8726	3.391	3.464
L-CR-6	46.2270	4.8047	42.0000	87.1439	15	59	9.0277	15	59	1.8851	102.8726	102.8860	3.464	3.522
L-CR-10a	1021.637	18.0040	102.0000	305.0269	25	47	5.3625	25	47	0.2986	102.9013	102.8849	1.618	1.709
L-CR-12	281.6024	7.8223	72.0000	338.2178	25	45	9.3469	25	45	1.2010	102.8849	102.8949	2.421	2.522
L-CR-97	343.1880	6.3553	72.0000	338.2872	25	45	6.2333	25	45	0.9857	102.8949	102.9001	2.522	2.603
L-CR-98	608.9192	11.2763	72.0000	338.3732	25	45	6.2349	25	45	0.5557	102.9001	102.9002	2.603	2.610
L-CJ-18	272.2468	5.6718	72.0000	198.6204	16	2	4.3327	15	53	0.7296	103.8806	103.7199	1.843	1.837
L-CJ-19	248.5262	5.1776	72.0000	205.2834	16	2	4.3993	15	53	0.8260	103.7199	103.6629	1.837	1.835
L-CJ-20	242.5367	5.0528	72.0000	205.2972	16	2	4.3488	15	53	0.8465	103.6624	103.5885	1.835	1.833
L-CJ-21	314.3635	6.5492	72.0000	214.8538	16	2	4.4773	15	53	0.6835	103.5885	103.5386	1.833	1.838
L-CJ-22	267.4279	5.5714	72.0000	219.1492	16	2	4.5559	16	2	0.8195	103.5387	103.2909	1.838	1.815
L-CJ-23	256.8325	5.3507	72.0000	222.8110	16	2	4.6319	16	2	0.8675	103.2909	103.0226	1.815	1.789
L-CJ-24	286.9733	5.9786	72.0000	229.0328	16	2	4.7611	16	2	0.7981	103.0226	102.9188	1.789	1.781
L-CJ-25	260.6565	5.4303	72.0000	233.1501	16	2	4.8467	16	2	0.8945	102.9194	102.9058	1.782	1.798
L-CJ-26	493.5396	10.2821	72.0000	238.7589	16	2	4.9636	16	2	0.4838	102.9058	102.9056	1.764	1.811
L-CJ-30	265.2650	5.5264	72.0000	246.4671	16	1	5.1227	16	1	0.9291	102.9056	102.9054	1.811	1.826
L-CJ-31	263.6697	4.8828	72.0000	282.2950	16	1	5.2158	16	1	1.0706	102.9054	102.9054	1.826	1.828
L-CJ-32	316.7999	5.8667	72.0000	282.4076	16	1	5.2177	16	1	0.8914	102.9054	102.9049	1.828	1.854
L-CJ-33	280.5420	5.1952	72.0000	286.1758	16	1	5.2872	16	1	1.0201	102.9049	102.9047	1.854	1.862
L-CJ-35	306.0090	5.6668	72.0000	293.8090	16	1	5.4282	16	1	0.9601	102.9047	102.9044	1.862	1.881
L-CJ-37	310.8032	5.7556	72.0000	305.8908	16	1	5.6516	16	1	0.9842	102.9044	102.9040	1.881	1.899
L-CJ-37a	301.1321	5.5765	72.0000	312.7876	16	1	5.7790	16	1	1.0387	102.9040	102.9037	1.899	1.907
L-CJ-37b	301.6791	5.5866	72.0000	362.4410	16	1	6.6965	16	1	1.2014	102.9037	102.9033	1.907	1.917
L-CJ-37c	309.1802	5.7256	72.0000	362.5460	16	1	6.6988	16	1	1.1726	102.9033	102.9030	1.917	1.935
L-CJ-38	302.9335	5.6099	72.0000	370.0933	16	1	6.8383	16	1	1.2217	102.9030	102.9030	1.935	1.954
L-CJ-39	316.4037	5.8593	72.0000	386.3148	16	1	7.1383	16	1	1.2210	102.9030	102.9031	1.954	1.964
L-CJ-40	316.4037	5.8593	72.0000	385.9388	16	1	7.1315	16	1	1.2198	102.9031	102.9031	1.964	1.974
L-CJ-41	346.4205	5.7737	72.0000	399.9601	16	1	6.6518	16	1	1.1546	102.9031	102.9033	1.974	2.001
L-CJ-43	353.4445	5.8907	72.0000	439.6498	16	1	7.3123	16	1	1.2439	102.9033	102.9034	2.001	2.029
L-CJ-45	349.3903	5.8232	72.0000	475.4542	16	1	7.9083	16	1	1.3608	102.9034	102.9034	2.029	2.047
L-CJ-46	336.5828	5.6097	72.0000	492.4296	16	1	8.1912	16	1	1.4630	102.9034	102.9034	2.047	2.056
L-CJ-47	353.4445	5.8907	72.0000	495.9365	16	1	8.2503	16	1	1.4032	102.9034	102.9033	2.056	2.084
L-CJ-48	172.6910	4.7970	72.0000	257.6122	16	1	7.1431	16	1	1.4918	102.9033	102.9033	2.084	2.091
L-CJ-49	179.7425	4.9928	72.0000	267.1231	16	1	7.4076	16	1	1.4861	102.9033	102.9031	2.091	2.111
L-CJ-50	184.1813	5.1161	72.0000	271.8590	16	1	7.5397	16	1	1.4760	102.9031	102.9030	2.111	2.122
L-CJ-51	183.8751	5.1076	72.0000	273.8546	16	1	7.5956	16	1	1.4894	102.9030	102.9028	2.122	2.139
L-CJ-52	173.0082	4.8058	72.0000	278.8686	16	1	7.7353	16	1	1.6119	102.9028	102.9026	2.139	2.150
L-CJ-53	179.7425	4.9928	72.0000	278.9208	16	1	7.7377	16	1	1.5518	102.9026	102.9024	2.150	2.159
L-CJ-53a	178.5072	4.9585	72.0000	278.9769	16	1	7.7398	16	1	1.5628	102.9024	102.9022	2.159	2.172
L-CJ-54	177.4815	4.9300	72.0000	278.5494	16	2	7.7285	16	2	1.5695	102.9022	102.9018	2.172	2.194
L-CJ-55	181.5311	5.0425	72.0000	278.5448	16	1	7.7297	16	1	1.5344	102.9018	102.9013	2.194	2.222
L-CJ-56	176.1110	4.8920	72.0000	302.6430	16	1	8.4002	16	1	1.7185	102.9013	102.9007	2.222	2.248
L-CJ-57	178.7005	4.9639	72.0000	302.6329	16	2	8.4023	16	2	1.6935	102.9007	102.9002	2.248	2.280
L-CJ-58	367.2333	5.7380	96.0000	383.3674	16	2	5.9888	16	2	1.0439	102.9003	102.9000	1.958	1.965
L-CK-2a	15.9965	5.0918	24.0000	46.6853	15	59	14.6220	15	59	2.9185	106.5537	105.3019	4.722	4.246
L-CR-18.1	29.0035	5.9085	30.0000	54.1071	16	15	10.8624	16	15	1.8655	102.8336	102.8336	4.293	4.413
Link552	61.7728	3.4318	36.0000	-87.6748	16	56	-4.8362	16	56	-1.4193	103.4269	106.0924	2.587	3.564
Link553	23.9172	13.5344	18.0000	7.7634	15	58	9.7115	15	44	0.3246	103.1306	102.9058	3.580	4.744
Pump01	Undefnd	Undefnd	Undefn	112.1386	16	55								
FREE # 1	Undefnd	Undefnd	Undefn	766.7552	16	2								

Table E15 - SPREADSHEET INFO LIST
Conduit Flow and Junction Depth Information for use in spreadsheets. The maximum values in this table are the true maximum values because they sample every time step. The values in the review results may only be the maximum of a subset of all the time steps in the run.

| Note: These flows are only the flows in a single barrel.|

Conduit Name	Maximum Flow (cfs)	Total Flow (ft^3)	Maximum Velocity (ft/s)	Maximum Volume (ft^3)	##	Junction Name	Invert Elevation (ft)	Maximum Elevation (ft)
L-CC-3	3.4091	19554.6483	4.6271	174.5876	##	CJ-10	94.5000	103.6275
L-CC-2	10.2905	72513.8089	9.9529	179.2311	##	CJ-12	94.3900	103.5855
L-CC-1	16.1483	90069.8695	5.0810	194.3109	##	CJ-14	94.1500	103.6051
L-CC-4	16.3918	91918.2928	5.1518	563.2013	##	CC-48	100.5400	106.1966
L-CC-5	17.5770	106265.2895	3.5483	312.5582	##	CC-6	99.5000	104.2382
L-CC-8	6.6482	27855.4562	7.8167	21.4432	##	CC-5	97.3000	104.1830
L-CC-7	8.6523	36122.7839	9.1849	32.4684	##	CC-1	98.0300	104.3853
L-CC-6	12.9351	44798.3212	7.8131	190.6888	##	CC-8	118.6000	119.2777
L-CC-9	3.6122	8679.8065	2.0105	107.0276	##	CJ-1	96.6000	104.1706
L-CC-11	0.0000	0.0000	0.0000	0.0000	##	CC-9	98.7300	104.2939
L-CC-12	0.0000	0.0000	0.0000	0.0000	##	CC-2	102.3100	105.0835
L-CC-13	4.2689	7404.4896	5.5798	174.6295	##	CC-3	103.9400	105.1270
L-CC-14	5.6138	8693.0781	6.3300	97.3323	##	CC-7	118.0300	118.8199
L-CC-21	3.1536	13053.2913	2.6834	112.4885	##	CJ-2A	96.3000	104.0904
L-CC-20	5.1452	21324.2364	4.3267	85.8844	##	CJ-2	96.3200	104.1063
L-CC-19	18.1464	86149.8845	10.0652	541.1217	##	CJ-3	96.1800	104.0294
L-CC-22	18.4259	86184.9361	9.6086	102.0575	##	CD-1	101.0300	103.9334
L-CC-18	1.7308	7401.7932	1.8631	177.3518	##	CD-2	100.8200	104.2227
L-CC-17	6.2713	31315.4628	4.9902	110.7544	##	CJ-5	94.9300	103.8880
L-CC-16	8.3160	44394.7650	4.5736	230.5371	##	CJ-4	95.0000	103.9320
L-CC-15	1.8885	8257.1759	2.5142	184.2436	##	CD-3	100.7100	103.8330
L-CC-23	4.2405	15639.7677	4.7120	58.6047	##	CJ-6	94.8600	103.8228
L-CC-24	5.6895	20439.6718	3.5896	55.5762	##	CD-4	100.8300	103.7516
L-CC-29	8.7187	12661.7872	10.7402	47.8339	##	CJ-7	94.7800	103.7453
L-CC-28	21.2613	78752.2111	8.0352	852.5436	##	CD-5	101.0600	103.6707
L-CC-31	21.4390	78710.2718	7.5817	153.3427	##	CJ-8	94.7000	103.6652
L-CC-27	4.0383	5217.4437	2.6921	110.7770	##	CD-6	101.0700	103.7515
L-CC-26	16.2575	50972.7595	5.6154	171.2571	##	CD-7	100.8600	103.6393
L-CC-30	15.4065	50997.9593	6.5143	46.1077	##	CC-32	97.7100	103.9954
L-CC-25	4.3662	12166.0301	3.5391	110.6473	##	CJ-8a	94.6600	103.6311
L-CC-32	8.6643	30462.7306	6.6629	54.1050	##	CC-31	97.3400	103.6774
L-CC-38	5.0658	21334.8722	5.5498	82.3501	##	CJ-6a	94.8300	103.7976
L-CC-33	21.2856	104195.0637	8.8948	547.4289	##	CC-24	98.0000	103.8592
L-CC-34	21.4566	104199.3983	9.9054	95.7360	##	CC-23	98.0000	103.9477
L-CC-37	3.2739	6506.2943	2.7790	101.8861	##	CC-22	97.9400	104.0878
L-CC-36	13.9657	69752.0003	6.0685	259.7195	##	CJ-29	95.0900	103.9576
L-CC-35	2.3844	5638.4973	2.6465	166.4061	##	CC-14	100.5000	104.1142
L-CC-39	8.0582	23957.2956	8.0268	54.2035	##	CC-13	100.5000	104.0354
L-CC-46	6.1483	30438.4319	3.4785	66.6915	##	CC-12	112.1400	112.1400
L-CC-45	10.2393	30433.3865	5.7425	148.1152	##	CC-11	112.6900	112.6900
L-CC-57	15.6172	-57793.1083	10.8401	78.7897	##	CC-10	100.0000	104.1493
L-CC-40	108.0480	426345.5520	5.9532	1456.0977	##	CJ-28	96.4000	104.1512
L-CC-43	109.5825	454480.2553	4.5433	3598.7741	##	CJ-27	96.5100	104.1654
L-CC-44	110.8392	476206.4802	4.5951	1158.7580	##	CC-15	102.7800	105.0653
L-CC-42	17.3681	47012.2660	9.7834	71.7895	##	CC-16	102.0000	105.0458
L-CC-49	-17.9628	-18405.5082	-10.0143	101.8896	##	CC-17	102.8500	105.1997
L-CC-48	16.5272	18944.4920	9.2297	177.2936	##	CC-18	103.4300	105.2171
L-CC-47	17.2200	18950.6216	9.6789	98.1845	##	CC-19	101.7700	104.9675
L-CC-56	4.6477	20009.3488	5.3727	64.8271	##	CC-20	110.2400	111.2676
L-CD-1	-2.0558	2.8852	-1.2504	32.4513	##	CC-21	110.5200	111.4030
L-CD-2	14.7740	165332.2356	21.0634	32.4547	##	CC-28	100.2900	104.0648
L-CD-3	1.4771	6.7797	1.6439	32.4552	##	CC-29	115.6000	115.9113
L-CD-4	3.0448	9560.0391	9.7164	32.4558	##	CC-25	102.6000	104.1217
L-CD-5	-0.8070	2.0309	-0.8465	32.4559	##	CC-26	100.4900	104.0844
L-CD-6	12.6330	102456.6696	20.2889	32.4618	##	CC-27	102.5900	104.1441
L-CD-7	1.3624	3.4356	1.4934	32.4597	##	CD-8	100.7600	103.6137
L-CD-8	1.4534	2.7305	1.5996	32.4664	##	CD-9	100.8500	103.6121
L-CD-9	2.5700	3.0892	1.0970	89.2577	##	CJ-13	94.3100	103.5688
L-CD-10	13.9015	107228.1928	20.7794	32.5217	##	CC-35	102.5300	105.2762
L-CD-11	5.0958	18255.1230	13.7211	32.5266	##	CC-33	99.8600	104.9760
L-CD-13	-7.1326	12.2430	-2.5416	240.4187	##	CC-36	100.8200	105.2693

L-CD-12	-12.5699	77.9038	-2.7722	1275.8648	##	CC-37	102.4200	105.2784
L-CJ-1	18.5767	118021.1211	1.6553	1080.2358	##	CC-38	121.6400	122.4104
L-CJ-27	27.0089	166294.4174	2.4085	1317.3625	##	CC-39	97.8900	104.2241
L-CJ-28	50.9993	310773.3619	4.6755	948.5006	##	CD-10	100.7000	103.9107
L-CJ-2	55.2529	336013.0981	5.0815	263.4725	##	CJ-15	94.0900	103.5882
L-CJ-2a	55.7523	340318.2216	5.1927	974.8483	##	CD-11	100.3700	104.3493
L-CJ-3	57.9076	350965.6417	5.7927	1053.8889	##	CJ-16	93.9900	103.7562
L-CJ-29	59.1018	363725.3152	2.9512	1650.1071	##	CJ-17	92.8800	103.8853
L-CJ-4	76.5147	449908.3456	3.8206	1469.2587	##	CC-4	97.8400	104.2812
L-CJ-5	92.4356	630851.4630	4.6154	1370.0244	##	CJ-11	94.4600	103.6079
L-CJ-6	92.0735	630837.6281	4.5976	504.3689	##	CJ-9	94.5400	103.6133
L-CJ-6a	95.6256	651273.1507	4.7753	1007.7491	##	CJ-12a	94.3200	103.5794
L-CJ-7	97.3212	660777.5900	4.8601	1470.2825	##	CC-44	94.9800	104.1123
L-CJ-8	97.1838	660763.6738	4.8534	605.1533	##	CC-34	97.4200	103.6448
L-CJ-8a	112.2279	739459.4315	4.8716	2735.8960	##	CC-40	95.4000	106.0924
L-CJ-9	125.5256	841961.4134	5.3225	1004.0832	##	CC-43	95.2500	105.9152
L-CJ-10	135.3797	872394.9023	5.6808	756.3349	##	CC-46	101.1500	105.2391
L-CJ-11	128.8231	872312.9417	5.5319	1756.9698	##	CC-45	101.0400	104.9979
L-CJ-12	129.3916	872295.5470	5.5784	1255.1757	##	CC-57	100.8000	104.5763
L-CJ-12a	146.4021	976464.4959	6.3580	631.1701	##	CC-42	101.8700	104.6882
L-CJ-13	146.1238	976347.8954	6.3265	3138.9222	##	CD-12	99.2600	104.3964
L-CJ-14	151.2127	1000232.447	6.6298	1890.6810	##	CD-13	100.4000	104.4400
L-CJ-15	162.1137	1107614.305	7.2833	2410.7720	##	CC-30	100.3300	104.0042
L-CJ-16	166.2879	1125102.013	8.1647	2486.6141	##	CC-49	100.5200	106.3018
L-CJ-17	198.3246	1602497.288	4.4150	2471.5176	##	CC-47	100.2500	106.1013
L-CC-50	8.0872	17.0679	4.5249	86.7609	##	CJ-21	92.5900	103.5885
L-CC-52	6.0611	20923.2361	7.1151	83.3643	##	CJ-24	92.2900	103.0226
L-CC-51	6.9086	20924.7622	11.6347	86.8914	##	CJ-33	91.7800	102.9049
L-CC-53	4.2611	19178.1274	3.8502	202.5160	##	CE-10	97.7700	102.9051
L-CC-54	9.7839	19172.8965	9.8212	63.3862	##	CD-23	96.8100	102.9030
L-CC-55	7.9392	27430.3454	11.5385	63.3091	##	CJ-47	90.5700	102.9034
L-CD-14	11.4862	62703.3547	16.7767	32.6036	##	CD-29	96.2400	102.9037
L-CD-15	4.8173	27855.1723	10.7506	32.5793	##	CR-98	87.2800	102.9001
L-CD-16	15.7643	26061.7970	10.5258	89.3711	##	CR-97	87.7600	102.8949
L-CD-17	-10.4901	48021.3134	13.6492	32.5856	##	CE-11	97.3100	102.9100
L-CD-18	-8.5521	15.8773	-4.7526	32.5991	##	CR-23	90.9900	102.8575
L-CD-19	9.0268	49178.3726	12.7092	32.6274	##	CR-35	95.9500	102.7994
L-CD-20	8.1126	39363.4792	13.0372	32.6435	##	CR-37	93.9700	102.7970
L-CD-21	8.9261	39422.2769	12.3009	32.6570	##	CR-38	93.3100	102.7970
L-CD-22	14.3743	76800.9011	16.9714	32.6731	##	CR-22	94.5500	102.7870
L-CD-23	16.4197	88335.0016	16.9945	89.6202	##	CR-20	92.5600	102.7959
L-CD-24	14.5489	137455.6690	16.4870	32.7095	##	CR-41	114.8300	115.4312
L-CD-27	31.1738	204892.7579	18.5230	32.7541	##	CR-10	89.5000	102.8948
L-CD-28	21.2111	121747.3800	16.3794	32.7689	##	CR-88	117.2000	118.2249
L-CD-29	20.0384	211333.3473	21.5416	32.8850	##	CR-24	96.4800	102.8576
L-CD-30	26.0424	21521.9728	8.9855	89.8340	##	CE-1	99.9000	104.1228
L-CD-31	20.6778	47646.3565	13.3481	32.8431	##	CD-15	97.5000	103.3544
L-CD-32	15.0221	-716.2099	8.3315	36.5223	##	CD-31	95.6000	102.9031
L-CE-1	-4.4947	4785.1923	-2.5775	212.9711	##	CR-13	96.7600	102.8528
L-CE-2	4.6551	8703.4344	-3.2135	278.1392	##	CR-17	91.1600	102.8504
L-CE-3	11.4526	36470.8596	5.1248	458.0914	##	CJ-53a	89.9500	102.9024
L-CE-4	15.1261	55889.1691	3.9594	571.1965	##	CJ-50	90.2400	102.9031
L-CE-5	31.7734	155531.7743	5.3245	555.7619	##	CJ-49	90.3600	102.9033
L-CE-6	36.6164	174858.2173	3.9592	353.0112	##	CR-14	94.6500	102.8520
L-CE-7	40.7869	188339.8397	4.8890	1724.7143	##	CG-11	97.7000	102.9104
L-CE-8	41.0282	188609.3248	5.2397	403.4422	##	CJ-40	91.1200	102.9031
L-CE-9	8.3111	20441.8213	5.3738	82.1132	##	CG-1	99.2400	102.9062
L-CE-11	-6.5387	6527.2753	-3.6615	82.3187	##	CJ-37	91.6200	102.9044
L-CE-10	6.5183	16969.6835	7.6829	90.6129	##	CE-7	95.0100	102.9073
L-CF-1	2.6148	10867.5717	2.2658	175.4673	##	CE-5	95.7300	102.9083
L-CF-2	5.2192	21745.0422	4.1664	178.8464	##	CE-4	96.4500	102.9098
L-CF-3	5.8129	21712.3174	4.5924	181.3004	##	CJ-45	90.7300	102.9034
L-CG-1	5.7939	17023.7912	4.7898	231.1410	##	CD-24	96.4100	102.9033
L-CG-2	19.0469	59663.3260	6.0274	385.3277	##	CC-50	100.9600	104.8116

L-CG-3	27.3940	146270.3520	5.5532	591.3296	##	CJ-18	92.8200	103.8808
L-CG-8	31.6710	164666.9319	6.4230	771.8057	##	CJ-20	92.6500	103.6629
L-CG-9	37.2478	192356.7251	5.5007	222.3049	##	CC-51	100.5500	103.8238
L-CG-10	40.3074	207972.9058	6.3019	481.6603	##	CC-52	100.6900	104.9130
L-CG-11	3.9557	14390.3635	3.0278	155.2663	##	CD-14	99.3000	103.7479
L-CG-6	4.9934	19169.9511	3.4656	211.0643	##	CJ-22	92.5100	103.5386
L-CG-5	9.8913	26424.2841	3.1147	289.8195	##	CC-53	122.2000	123.1919
L-CG-4	16.8105	81189.4750	3.4075	818.1752	##	CC-55	98.5000	103.7629
L-CG-7	10.5539	49187.5609	5.8624	162.7538	##	CJ-25	92.2300	102.9194
L-CH-1	7.6174	33528.8464	6.7292	172.5122	##	CD-16	97.5000	102.9061
L-CH-2	-1.9286	3.0731	-1.0859	99.6446	##	CJ-26	92.1200	102.9058
L-CH-3	-3.4099	11.1841	-1.9108	63.6018	##	CD-17	97.3200	102.9059
L-CK-1	16.1224	16252.0322	5.0950	349.1005	##	CJ-30	92.0400	102.9056
L-CK-2	42.0134	882856.2373	13.2413	263.4725	##	CD-18	97.5400	102.9056
L-CK-3	44.2004	906865.5510	8.9293	128.6487	##	CJ-32	91.9400	102.9054
L-CK-4	51.3286	962378.4573	10.5093	1102.2083	##	CJ-31	91.9500	102.9054
L-CK-5	51.2826	962331.2682	10.7033	216.0316	##	CE-2	99.5700	103.6202
L-CK-6	4.0546	20017.5718	4.4801	80.9732	##	CE-3	97.7700	102.9101
L-CK-7	7.5180	36136.4751	6.6442	96.7259	##	CE-9	98.6500	103.4508
L-CK-8	6.6439	24360.4098	8.6049	100.0654	##	CE-6	95.0800	102.9076
L-CK-9	6.3595	15237.6096	7.1545	118.3079	##	CD-19	97.4100	102.9049
L-CL-9	14.6172	-691.4235	8.1913	200.0722	##	CD-20	97.0100	102.9045
L-CL-1	14.6098	34964.7089	8.2665	157.2910	##	CF-1	109.5100	110.3086
L-CL-2	22.7737	33930.8806	7.1908	154.7476	##	CF-2	109.0600	110.1670
L-CL-3	22.8533	41907.2767	7.2110	378.6101	##	CD-21	96.6100	102.9041
L-CL-8	22.8586	52333.9765	7.2268	314.0320	##	CJ-37a	91.5100	102.9040
L-CL-4	22.8715	77529.5860	7.2378	294.5210	##	CD-22	96.9100	102.9037
L-CL-4a	22.8844	77530.6362	7.2499	293.2980	##	CJ-37c	91.4000	102.9033
L-CL-5	22.8986	92318.5044	5.8778	154.3783	##	CJ-37b	91.4600	102.9037
L-CL-6	23.1920	90544.1168	4.6469	241.6214	##	CG-2	97.6200	102.9060
L-CL-7	10.5442	40847.5373	5.9010	147.7576	##	CG-4	95.9100	102.9073
L-CP-1	1.8589	5.3458	2.2550	73.0056	##	CG-7	97.2800	102.9759
L-CP-3	7.2392	10489.7192	4.0213	288.7350	##	CG-3	95.5900	102.9056
L-CP-2	8.5520	10486.1987	4.7267	109.5668	##	CG-8	95.1300	102.9039
L-CR-5	26.4080	21698.0447	8.3278	148.1988	##	CG-9	94.0000	102.9034
L-CR-MH5	27.3578	21110.0435	3.8320	1082.6214	##	CG-10	93.9100	102.9035
L-CR-4	11.0064	-5.7479	-0.4624	3025.8171	##	CH-1	96.5000	102.9031
L-CR-3	35.4916	19837.3243	1.1634	16904.4367	##	CJ-38	91.2900	102.9030
L-CR-8	169.5867	768441.5394	3.8267	4862.9159	##	CH-2	96.5000	102.9036
L-CR-9	280.0891	805261.9464	6.3206	6947.0224	##	CH-3	95.4600	102.9034
L-CR-10	280.1739	814570.8451	4.9275	1903.5878	##	CJ-41	91.0600	102.9031
L-CR-8a	122.6789	-14093.0874	12.6060	322.7466	##	CK-1	97.9100	105.3025
L-CR-41	2.1965	9142.2160	3.0316	126.5217	##	CK-2	96.8100	105.3019
L-CR-34	8.5662	44386.5476	5.5006	59.2670	##	CK-3	96.1500	103.9722
L-CR-32	7.6595	36951.4048	5.6424	129.6692	##	CK-4	96.1000	103.8643
L-CR-MH32	9.2735	-10.3474	5.1773	129.6686	##	CJ-43	90.9000	102.9033
L-CR-33a	14.0583	-18.1576	7.7947	59.2745	##	CK-5	94.0600	102.9996
L-CR-33	34.5990	-6626.4142	10.8716	488.8490	##	CK-6	115.6700	116.3099
L-CR-34a	39.9768	30445.7227	12.5860	523.2083	##	CK-7	114.1100	115.0275
L-CR-11	9.8865	61899.5631	6.9256	326.8949	##	CD-27	96.4100	102.9037
L-CR-28	23.0000	57013.2966	7.2057	279.9387	##	CK-8	96.7500	102.9135
L-CR-27	18.4101	7046.1122	10.3606	160.6175	##	CD-28	96.7100	102.9037
L-CR-29	37.5259	73278.1692	11.8393	569.5610	##	CJ-46	90.6200	102.9034
L-CR-30	49.9830	76657.2388	10.0672	871.4368	##	CK-9	96.7500	102.9038
L-CR-31	49.7999	82918.9970	10.0622	164.6701	##	CJ-48	90.4000	102.9033
L-CR-45	50.7802	305445.4679	3.1552	1067.0624	##	CL-6	93.4300	102.9029
L-CR-88	6.4305	26564.6443	3.9982	104.4728	##	CL-5	94.1100	102.9025
L-CR-40	6.4281	26573.3659	4.0650	64.7700	##	CL-4a	94.6700	102.8990
L-CR-39	6.4271	26582.1126	4.3602	103.9283	##	CL-4	95.2300	102.8965
L-CR-37	10.9023	23512.5153	3.3202	256.8857	##	CL-8	95.9500	102.8964
L-CR-22	14.1637	2.2198	4.4790	57.8495	##	CL-3	96.1900	102.8980
L-CR-21	31.1170	-2021.1994	9.7157	193.4371	##	CL-2	96.2600	102.8985
L-CR-25	7.8676	32632.1571	4.3683	105.3890	##	CL-1	97.0200	102.8996
L-CR-24	3.2526	183.2184	1.8015	145.1862	##	CL-9	97.2400	102.9013

L-CR-15	9.0540	12942.1633	5.0311	148.1781	##	CL-7	94.4300	102.9036
L-CR-13	15.7529	28630.6143	8.8147	240.8276	##	CD-30	95.6000	102.9031
L-CR-14	22.2245	50521.8840	6.9703	365.0600	##	CJ-51	90.1700	102.9030
L-CR-16	22.1665	66068.6270	6.9683	358.9812	##	CJ-52	90.0700	102.9028
L-CR-35	19.4992	5008.3895	10.9551	184.5044	##	CP-1	97.2300	102.9029
L-CR-36	38.0161	14309.9525	12.0311	411.5383	##	CJ-53	90.0000	102.9026
L-CR-38	61.4899	53919.2945	12.4393	643.1311	##	CR-25	94.6800	102.8578
L-CR-20	65.4274	61720.8474	9.1784	926.2517	##	CR-15	96.5700	102.8521
L-CR-19	65.4336	92010.7698	9.2040	1666.7728	##	CR-16	94.3200	102.8513
L-CR-18	68.0225	624040.7881	9.5593	741.0132	##	CR-18	91.8000	102.8336
L-CR-17	79.5002	697897.2328	8.2241	806.8821	##	CR-19	92.3200	102.8040
L-CR-23	87.1735	730571.7100	9.0210	1260.7567	##	CR-21	93.5600	102.7869
L-CR-6	87.1439	730434.9614	9.0277	907.7434	##	CR-36	95.1500	102.7983
L-CR-10a	305.0269	845059.4475	5.3625	5175.3814	##	CR-6	90.7500	102.8726
L-CR-12	338.2178	1212671.068	9.3469	7980.2900	##	CR-8	89.7000	102.8860
L-CR-97	338.2872	1216846.993	6.2333	18507.1859	##	CR-8a	90.3500	102.8863
L-CR-98	338.3732	1216737.249	6.2349	490.7524	##	CR-9	89.6000	102.8860
L-CJ-18	198.6204	1602447.361	4.3327	4824.6442	##	CR-10a	89.1500	102.9013
L-CJ-19	205.2834	1632507.511	4.3993	2419.7818	##	CR-45	88.5400	102.8835
L-CJ-20	205.2972	1632470.526	4.3488	3052.3658	##	CR-31	92.5000	102.8668
L-CJ-21	214.8538	1695111.767	4.4773	2417.5416	##	CR-30	93.0100	102.7913
L-CJ-22	219.1492	1714242.703	4.5559	4582.9778	##	CR-29	94.0200	102.6363
L-CJ-23	222.8110	1742173.913	4.6319	4974.9376	##	CR-33	94.2000	102.7445
L-CJ-24	229.0328	1769530.321	4.7611	2179.5842	##	CR-27	96.0600	102.6364
L-CJ-25	233.1501	1795501.396	4.8467	4819.6679	##	CR-33a	94.3000	102.7447
L-CJ-26	238.7589	1822784.199	4.9636	3421.8183	##	CR-34a	93.7500	102.7499
L-CJ-30	246.4671	1870765.025	5.1227	3813.2292	##	CR-34	94.3000	102.7500
L-CJ-31	282.2950	2059407.064	5.2158	653.0771	##	CR-32	96.0400	102.6269
L-CJ-32	282.4076	2059457.255	5.2177	7212.6726	##	CR-MH32	94.5000	102.7450
L-CJ-33	286.1758	2076369.601	5.2872	2887.0129	##	CR-12	88.3600	102.8849
L-CJ-35	293.8090	2125597.426	5.4282	5320.8674	##	CR-11	96.7600	102.9034
L-CJ-37	305.8908	2186797.445	5.6516	5158.4271	##	CE-8	93.8800	102.9058
L-CJ-37a	312.7876	2226263.979	5.7790	2506.8696	##	CF-3	96.0000	102.9049
L-CJ-37b	362.4410	2511084.636	6.6965	2999.1055	##	CJ-35	91.7300	102.9047
L-CJ-37c	362.5460	2511111.298	6.6988	5213.7731	##	CR-40	117.0100	118.0226
L-CJ-38	370.0933	2544662.646	6.8383	5426.1449	##	CR-39	116.8900	117.8870
L-CJ-39	386.3148	2632968.995	7.1383	2722.0995	##	CR-28	94.2900	102.6267
L-CJ-40	385.9388	2633055.582	7.1315	2725.2786	##	CG-6	97.3200	102.9104
L-CJ-41	399.9601	2770519.343	6.6518	8743.5239	##	CJ-54	89.8700	102.9022
L-CJ-43	439.6498	3732549.784	7.3123	8939.0134	##	CD-32	95.9000	102.9026
L-CJ-45	475.4542	3961673.998	7.9083	5918.5234	##	CJ-55	89.7400	102.9018
L-CJ-46	492.4296	4084814.472	8.1912	2908.3126	##	CJ-56	89.5700	102.9013
L-CJ-47	495.9365	4099184.675	8.2503	8933.6628	##	CJ-57	89.4100	102.9007
L-CJ-48	257.6122	4188826.032	7.1431	2803.6307	##	CJ-58	87.2400	102.9003
L-CJ-49	267.1231	4400286.948	7.4076	7766.7244	##	CJ-59	87.1800	102.9000
L-CJ-50	271.8590	4441286.160	7.5397	4316.2108	##	CR-3	89.9600	102.8862
L-CJ-51	273.8546	4462701.342	7.5956	6160.0132	##	CR-4	90.0100	102.8863
L-CJ-52	278.8686	4510288.525	7.7353	4884.6483	##	CR-5	96.0000	102.8871
L-CJ-53	278.9208	4510084.864	7.7377	3222.0606	##	CR-MH5	94.9000	102.8870
L-CJ-53a	278.9769	4513166.477	7.7398	5232.8874	##	CP-2	96.4100	102.9031
L-CJ-54	278.5494	4523049.892	7.7285	8608.4944	##	CP-3	96.8900	103.0414
L-CJ-55	278.5448	4523330.261	7.7297	10750.1064	##	CJ-19	92.7000	103.7199
L-CJ-56	302.6430	4806989.796	8.4002	10776.1706	##	CJ-23	92.4000	103.2910
L-CJ-57	302.6329	4807166.274	8.4023	12416.6952	##	CJ-39	91.1800	102.9030
L-CJ-58	383.3674	6024098.982	5.9888	7686.0252	##	CG-5	96.5900	102.9087
L-CK-2a	46.6853	861053.4273	14.6220	197.5737	##	CC-54	98.5000	104.2267
L-CR-18.1	54.1071	526263.6573	10.8624	308.7538	##	BW8-SW	97.1100	106.5537
Link552	-87.6748	359.9488	-4.8362	5359.8170	##	BW8-SE	92.1000	102.8336
Link553	7.7634	27418.1739	9.7115	68.7520	##	SNT01	81.4500	98.0004
Pump01	112.1386	320906.7839	0.0000	0.0000	##	CK-3H	95.6650	103.4269
FREE # 1	766.7552	6024116.941	0.0000	0.0000	##	CC-56	97.7600	103.1303

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| Table E15a - SPREADSHEET REACH LIST |
| Peak flow and Total Flow listed by Reach or those |
| conduits or diversions having the same |

upstream and downstream nodes.

Upstream Node	Downstream Node	Maximum Flow (cfs)	Total Flow (ft^3)
CC-3	CC-2	3.4091	19554.6483
CC-2	CC-1	10.2905	72513.8089
CC-1	CC-4	16.1483	90069.8695
CC-4	CC-5	16.3918	91918.2928
CC-5	CJ-1	17.5770	106265.290
CC-8	CC-7	6.6482	27855.4562
CC-7	CC-6	8.6523	36122.7839
CC-6	CJ-27	12.9351	44798.3212
CC-9	CJ-28	3.6122	8679.8065
CC-13	CJ-3	4.2689	7404.4896
CC-14	CJ-29	5.6138	8693.0781
CC-21	CC-20	3.1536	13053.2913
CC-20	CC-19	5.1452	21324.2364
CC-19	CC-22	18.1464	86149.8845
CC-22	CJ-4	18.4259	86184.9361
CC-18	CC-17	1.7308	7401.7932
CC-17	CC-16	6.2713	31315.4628
CC-16	CC-19	8.3160	44394.7650
CC-15	CC-16	1.8885	8257.1759
CC-23	CJ-5	4.2405	15639.7677
CC-24	CJ-6a	5.6895	20439.6718
CC-29	CC-28	8.7187	12661.7872
CC-28	CC-31	21.2613	78752.2111
CC-31	CJ-8a	21.4390	78710.2718
CC-27	CC-26	4.0383	5217.4437
CC-26	CC-30	16.2575	50972.7595
CC-30	CC-28	15.4065	50997.9593
CC-25	CC-26	4.3662	12166.0301
CC-32	CJ-10	8.6643	30462.7306
CC-38	CC-33	5.0658	21334.8722
CC-33	CC-34	21.2856	104195.064
CC-34	CJ-12a	21.4566	104199.398
CC-37	CC-36	3.2739	6506.2943
CC-36	CC-33	13.9657	69752.0003
CC-35	CC-36	2.3844	5638.4973
CC-39	CJ-14	8.0582	23957.2956
CC-46	CC-45	6.1483	30438.4319
CC-45	CC-57	10.2393	30433.3865
CC-40	CC-57	-15.6172	57793.1083
CC-40	CC-43	108.0480	426345.552
CC-43	CC-44	109.5825	454480.255
CC-44	CJ-17	110.8392	476206.480
CC-42	CC-40	17.3681	47012.2660
CC-48	CC-49	17.9628	18405.5082
CC-48	CC-47	16.5272	18944.4920
CC-47	CC-43	17.2200	18950.6216
CC-10	CJ-2	4.6477	20009.3488
CD-1	CJ-4	-2.0558	2.8852
CD-2	CJ-5	14.7740	165332.236
CD-3	CJ-6	1.4771	6.7797
CD-4	CJ-7	3.0448	9560.0391
CD-5	CJ-8	-0.8070	2.0309
CD-6	CJ-9	12.6330	102456.670
CD-7	CJ-11	1.3624	3.4356
CD-8	CJ-12	1.4534	2.7305
CD-9	CJ-13	2.5700	3.0892
CD-10	CJ-15	13.9015	107228.193
CD-11	CJ-16	5.0958	18255.1230
CD-13	CD-12	-7.1326	12.2430
CD-12	CJ-17	-12.5699	77.9038
CJ-1	CJ-27	18.5767	118021.121

CJ-27	CJ-28	27.0089	166294.417
CJ-28	CJ-2	50.9993	310773.362
CJ-2	CJ-2A	55.2529	336013.098
CJ-2A	CJ-3	55.7523	340318.222
CJ-3	CJ-29	57.9076	350965.642
CJ-29	CJ-4	59.1018	363725.315
CJ-4	CJ-5	76.5147	449908.346
CJ-5	CJ-6	92.4356	630851.463
CJ-6	CJ-6a	92.0735	630837.628
CJ-6a	CJ-7	95.6256	651273.151
CJ-7	CJ-8	97.3212	660777.590
CJ-8	CJ-8a	97.1838	660763.674
CJ-8a	CJ-9	112.2279	739459.431
CJ-9	CJ-10	125.5256	841961.413
CJ-10	CJ-11	135.3797	872394.902
CJ-11	CJ-12	128.8231	872312.942
CJ-12	CJ-12a	129.3916	872295.547
CJ-12a	CJ-13	146.4021	976464.496
CJ-13	CJ-14	146.1238	976347.895
CJ-14	CJ-15	151.2127	1000232.45
CJ-15	CJ-16	162.1137	1107614.31
CJ-16	CJ-17	166.2879	1125102.01
CJ-17	CJ-18	198.3246	1602497.29
CC-50	CJ-18	8.0872	17.0679
CC-52	CC-51	6.0611	20923.2361
CC-51	CJ-19	6.9086	20924.7622
CC-53	CC-54	4.2611	19178.1274
CC-54	CJ-22	9.7839	19172.8965
CC-55	CJ-24	7.9392	27430.3454
CD-14	CJ-21	11.4862	62703.3547
CD-15	CJ-23	4.8173	27855.1723
CD-16	CJ-25	15.7643	26061.7970
CD-17	CJ-30	-10.4901	48021.3134
CD-18	CJ-32	-8.5521	15.8773
CD-19	CJ-35	9.0268	49178.3726
CD-20	CJ-37	8.1126	39363.4792
CD-21	CJ-37a	8.9261	39422.2769
CD-22	CJ-37b	14.3743	76800.9011
CD-23	CJ-39	16.4197	88335.0016
CD-24	CJ-41	14.5489	137455.669
CD-27	CJ-45	31.1738	204892.758
CD-28	CJ-46	21.2111	121747.380
CD-29	CJ-49	20.0384	211333.347
CD-30	CJ-51	26.0424	21521.9728
CD-31	CJ-52	20.6778	47646.3565
CD-32	CJ-54	15.0221	-716.2099
CE-1	CE-2	-4.4947	4785.1923
CE-2	CE-3	4.6551	8703.4344
CE-3	CE-4	11.4526	36470.8596
CE-4	CE-5	15.1261	55889.1691
CE-5	CE-6	31.7734	155531.774
CE-6	CE-7	36.6164	174858.217
CE-7	CE-8	40.7869	188339.840
CE-8	CJ-31	41.0282	188609.325
CE-9	CE-3	8.3111	20441.8213
CE-11	CE-4	-6.5387	6527.2753
CE-10	CJ-33	6.5183	16969.6835
CF-1	CF-2	2.6148	10867.5717
CF-2	CF-3	5.2192	21745.0422
CF-3	CJ-37	5.8129	21712.3174
CG-1	CG-2	5.7939	17023.7912
CG-2	CG-3	19.0469	59663.3260
CG-3	CG-8	27.3940	146270.352
CG-8	CG-9	31.6710	164666.932

CG-9	CG-10	37.2478	192356.725
CG-10	CJ-37b	40.3074	207972.906
CG-11	CG-6	3.9557	14390.3635
CG-6	CG-5	4.9934	19169.9511
CG-5	CG-4	9.8913	26424.2841
CG-4	CG-3	16.8105	81189.4750
CG-7	CG-4	10.5539	49187.5609
CH-1	CJ-38	7.6174	33528.8464
CH-2	CH-3	-1.9286	3.0731
CH-3	CJ-40	-3.4099	11.1841
CK-1	CK-2	16.1224	16252.0322
CK-2	CK-3	42.0134	882856.237
CK-3	CK-4	44.2004	906865.551
CK-4	CK-5	51.3286	962378.457
CK-5	CJ-43	51.2826	962331.268
CK-6	CK-7	4.0546	20017.5718
CK-7	CK-4	7.5180	36136.4751
CK-8	CJ-45	6.6439	24360.4098
CK-9	CJ-47	6.3595	15237.6096
CL-9	CL-1	14.6172	-691.4235
CL-1	CL-2	14.6098	34964.7089
CL-2	CL-3	22.7737	33930.8806
CL-3	CL-8	22.8533	41907.2767
CL-8	CL-4	22.8586	52333.9765
CL-4	CL-4a	22.8715	77529.5860
CL-4a	CL-5	22.8844	77530.6362
CL-5	CL-6	22.8986	92318.5044
CL-6	CJ-48	23.1920	90544.1168
CL-7	CJ-50	10.5442	40847.5373
CP-1	CJ-53	1.8589	5.3458
CP-3	CP-2	7.2392	10489.7192
CP-2	CJ-54	8.5520	10486.1987
CR-5	CR-MH5	26.4080	21698.0447
CR-MH5	CR-3	27.3578	21110.0435
CR-4	CR-3	11.0064	-5.7479
CR-3	CR-8	35.4916	19837.3243
CR-8	CR-9	169.5867	768441.539
CR-9	CR-10	280.0891	805261.946
CR-10	CR-10a	280.1739	814570.845
CR-8a	CR-9	122.6789	-14093.087
CR-41	CR-10	2.1965	9142.2160
CR-34	CR-34a	8.5662	44386.5476
CR-32	CR-28	7.6595	36951.4048
CR-MH32	CR-33a	9.2735	-10.3474
CR-33a	CR-33	14.0583	-18.1576
CR-33	CR-34a	34.5990	-6626.4142
CR-34a	CR-10a	39.9768	30445.7227
CR-11	CR-12	9.8865	61899.5631
CR-28	CR-29	23.0000	57013.2966
CR-27	CR-29	18.4101	7046.1122
CR-29	CR-30	37.5259	73278.1692
CR-30	CR-31	49.9830	76657.2388
CR-31	CR-45	49.7999	82918.9970
CR-45	CR-12	50.7802	305445.468
CR-88	CR-40	6.4305	26564.6443
CR-40	CR-39	6.4281	26573.3659
CR-39	CR-9	6.4271	26582.1126
CR-37	CR-38	10.9023	23512.5153
CR-22	CR-21	14.1637	2.2198
CR-21	CR-20	31.1170	-2021.1994
CR-25	CR-23	7.8676	32632.1571
CR-24	CR-23	3.2526	183.2184
CR-15	CR-14	9.0540	12942.1633
CR-13	CR-14	15.7529	28630.6143

CR-14	CR-16	22.2245	50521.8840
CR-16	CR-17	22.1665	66068.6270
CR-35	CR-36	19.4992	5008.3895
CR-36	CR-38	38.0161	14309.9525
CR-38	CR-20	61.4899	53919.2945
CR-20	CR-19	65.4274	61720.8474
CR-19	CR-18	65.4336	92010.7698
CR-18	CR-17	68.0225	624040.788
CR-17	CR-23	79.5002	697897.233
CR-23	CR-6	87.1735	730571.710
CR-6	CR-8	87.1439	730434.961
CR-10a	CR-12	305.0269	845059.447
CR-12	CR-97	338.2178	1212671.07
CR-97	CR-98	338.2872	1216846.99
CR-98	CJ-58	338.3732	1216737.25
CJ-18	CJ-19	198.6204	1602447.36
CJ-19	CJ-20	205.2834	1632507.51
CJ-20	CJ-21	205.2972	1632470.53
CJ-21	CJ-22	214.8538	1695111.77
CJ-22	CJ-23	219.1492	1714242.70
CJ-23	CJ-24	222.8110	1742173.91
CJ-24	CJ-25	229.0328	1769530.32
CJ-25	CJ-26	233.1501	1795501.40
CJ-26	CJ-30	238.7589	1822784.20
CJ-30	CJ-31	246.4671	1870765.03
CJ-31	CJ-32	282.2950	2059407.06
CJ-32	CJ-33	282.4076	2059457.26
CJ-33	CJ-35	286.1758	2076369.60
CJ-35	CJ-37	293.8090	2125597.43
CJ-37	CJ-37a	305.8908	2186797.44
CJ-37a	CJ-37b	312.7876	2226263.98
CJ-37b	CJ-37c	362.4410	2511084.64
CJ-37c	CJ-38	362.5460	2511111.30
CJ-38	CJ-39	370.0933	2544662.65
CJ-39	CJ-40	386.3148	2632968.99
CJ-40	CJ-41	385.9388	2633055.58
CJ-41	CJ-43	399.9601	2770519.34
CJ-43	CJ-45	439.6498	3732549.78
CJ-45	CJ-46	475.4542	3961674.00
CJ-46	CJ-47	492.4296	4084814.47
CJ-47	CJ-48	495.9365	4099184.68
CJ-48	CJ-49	515.2244	4188826.03
CJ-49	CJ-50	534.2462	4400286.95
CJ-50	CJ-51	543.7179	4441286.16
CJ-51	CJ-52	547.7092	4462701.34
CJ-52	CJ-53	557.7373	4510288.53
CJ-53	CJ-53a	557.8415	4510084.86
CJ-53a	CJ-54	557.9538	4513166.48
CJ-54	CJ-55	557.0988	4523049.89
CJ-55	CJ-56	557.0895	4523330.26
CJ-56	CJ-57	605.2859	4806989.80
CJ-57	CJ-58	605.2658	4807166.27
CJ-58	CJ-59	766.7347	6024098.98
BW8-SW	CK-2	46.6853	861053.427
BW8-SE	CR-18	54.1071	526263.657
CK-3H	CC-40	-87.6748	359.9488
CC-56	CJ-26	7.7634	27418.1739
SNT01	CC-40	112.1386	320906.784

Table E19 - Junction Inflow & Outflow Listing
Units are either ft^3 or m^3 depending on the units in your model.

Junction Name	Constant Inflow to Node	User Inflow to Node	Interface Inflow to Node	DWF Inlow to Node	Inflow through Outfall	RNF Layer Inflow to Node	Outflow from Node	Evaporation from Node	Inflow from 2D Layer

CC-6	0.0000	8694.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CC-5	0.0000	14373.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CC-1	0.0000	16974.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CC-8	0.0000	27855.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CJ-1	0.0000	11754.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CC-9	0.0000	8685.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CC-2	0.0000	53077.5500	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CC-3	0.0000	19557.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CC-7	0.0000	8262.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CJ-2A	0.0000	4338.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CJ-2	0.0000	5229.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CJ-3	0.0000	3474.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CD-2	0.0000	165344.3500	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CD-4	0.0000	9567.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CD-6	0.0000	102442.7500	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CC-32	0.0000	30465.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CC-24	0.0000	20457.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CC-23	0.0000	15642.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CJ-29	0.0000	3897.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CC-14	0.0000	8694.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CC-13	0.0000	7398.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CC-10	0.0000	20016.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CJ-28	0.0000	135792.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CJ-27	0.0000	3483.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CC-15	0.0000	8271.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CC-16	0.0000	4770.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CC-17	0.0000	23931.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CC-18	0.0000	7398.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CC-19	0.0000	20475.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CC-20	0.0000	8262.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CC-21	0.0000	13050.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CC-28	0.0000	13473.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CC-29	0.0000	13527.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CC-25	0.0000	12177.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CC-26	0.0000	33525.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CC-27	0.0000	5229.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CC-35	0.0000	5652.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CC-33	0.0000	13059.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CC-36	0.0000	57636.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CC-37	0.0000	6516.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CC-38	0.0000	21330.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CC-39	0.0000	23958.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CD-10	0.0000	107181.3000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CD-11	0.0000	18261.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CC-44	0.0000	21771.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CC-43	0.0000	9135.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CC-46	0.0000	30447.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CC-57	0.0000	27414.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CC-42	0.0000	47025.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CC-49	0.0000	17838.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CE-10	0.0000	16974.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CD-23	0.0000	88389.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CD-29	0.0000	211838.3500	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CE-11	0.0000	6525.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CR-35	0.0000	6516.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CR-37	0.0000	23517.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CR-38	0.0000	18279.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CR-20	0.0000	13041.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CR-41	0.0000	9135.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CR-88	0.0000	26559.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CE-1	0.0000	4761.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CD-15	0.0000	27855.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CD-31	0.0000	48330.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CR-13	0.0000	29592.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

CR-17	0.0000	8694.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CR-14	0.0000	11295.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CG-11	0.0000	14382.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CG-1	0.0000	16965.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CE-7	0.0000	13905.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CE-5	0.0000	99693.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CE-4	0.0000	13041.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CD-24	0.0000	137650.8500	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CC-52	0.0000	20916.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CD-14	0.0000	62712.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CC-53	0.0000	19170.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CC-55	0.0000	27441.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CD-16	0.0000	26082.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CD-17	0.0000	47871.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CE-2	0.0000	3897.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CE-3	0.0000	7398.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CE-9	0.0000	20457.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CE-6	0.0000	19161.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CD-19	0.0000	49185.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CD-20	0.0000	39150.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CF-1	0.0000	10863.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CF-2	0.0000	10863.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CD-21	0.0000	39159.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CD-22	0.0000	76635.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CG-2	0.0000	43497.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CG-4	0.0000	6084.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CG-7	0.0000	49194.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CG-3	0.0000	6084.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CG-8	0.0000	18693.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CG-9	0.0000	27432.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CG-10	0.0000	16074.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CH-1	0.0000	33561.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CK-1	0.0000	16119.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CK-2	0.0000	6966.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CK-3	0.0000	24372.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CK-4	0.0000	19575.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CK-6	0.0000	20016.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CK-7	0.0000	16110.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CD-27	0.0000	205911.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CK-8	0.0000	24372.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CD-28	0.0000	121887.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CK-9	0.0000	15246.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CL-5	0.0000	14823.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CL-4	0.0000	25209.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CL-8	0.0000	12636.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CL-3	0.0000	9549.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CL-1	0.0000	35676.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CL-7	0.0000	40905.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CD-30	0.0000	21744.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CR-25	0.0000	32661.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CR-15	0.0000	8280.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CR-16	0.0000	16524.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CR-18	0.0000	6948.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CR-19	0.0000	32634.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CR-21	0.0000	9999.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CR-36	0.0000	11304.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CR-8	0.0000	44415.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CR-9	0.0000	24363.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CR-45	0.0000	224928.5000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CR-31	0.0000	10440.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CR-30	0.0000	9558.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CR-29	0.0000	9135.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CR-27	0.0000	8271.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CR-34	0.0000	44424.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

CR-32	0.0000	36963.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CR-11	0.0000	52245.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CR-28	0.0000	23085.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CG-6	0.0000	4779.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CJ-56	0.0000	282978.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CJ-59	0.0000	0.0000	0.0000	0.0000	1.1387E+06	0.0000	7.1628E+06	0.0000
CR-5	0.0000	19575.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CJ-19	0.0000	9135.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CG-5	0.0000	7830.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
BW8-SW	0.0000	798820.7500	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
BW8-SE	0.0000	526294.6000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
SNT01	0.0000	525821.4500	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CC-56	0.0000	27423.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Table E20 - Junction Flooding and Volume Listing. The maximum volume is the total volume in the node including the volume in the flooded storage area. This is the max volume at any time. The volume in the flooded storage area is the total volume above the ground elevation, where the flooded pond storage area starts. The fourth column is instantaneous, the fifth is the sum of the flooded volume over the entire simulation. Units are either ft^3 or m^3 depending on the units.

Junction Name	Surcharged Time (min)	Flooded Time(min)	Out of 1D-System (Flooded Volume)	Maximum Volume	Passed to 2D cell OR Volume Stored in allowed Flood Pond of 1D-System
CJ-10	585.6833	0.0000	0.0000	114.6961	0.0000
CJ-12	586.3583	0.0000	0.0000	115.5511	0.0000
CJ-14	588.0083	0.0000	0.0000	118.8123	0.0000
CC-48	532.8250	0.6000	0.0000	694.6841	15.5291
CC-6	0.0000	0.0000	0.0000	59.5392	0.0000
CC-5	587.0167	0.0000	0.0000	86.4917	0.0000
CC-1	568.0833	0.0000	0.0000	15808.2218	0.0000
CC-8	0.0000	0.0000	0.0000	8.5154	0.0000
CJ-1	575.4250	0.0000	0.0000	32.9779	0.0000
CC-9	578.0083	0.0000	0.0000	69.9179	0.0000
CC-2	92.6083	0.0000	0.0000	12.0813	0.0000
CC-3	0.0000	0.0000	0.0000	5.1704	0.0000
CC-7	0.0000	0.0000	0.0000	9.9261	0.0000
CJ-2A	576.8083	0.0000	0.0000	33.9350	0.0000
CJ-2	565.0833	0.0000	0.0000	33.9173	0.0000
CJ-3	573.9000	0.0000	0.0000	34.1918	0.0000
CD-1	446.4667	0.0000	0.0000	12.6471	0.0000
CD-2	511.2333	0.0000	0.0000	14.8220	0.0000
CJ-5	593.7000	0.0000	0.0000	112.5662	0.0000
CJ-4	593.1917	0.0000	0.0000	112.2393	0.0000
CD-3	528.4167	0.0000	0.0000	13.6036	0.0000
CJ-6	595.0417	0.0000	0.0000	112.6264	0.0000
CD-4	499.7000	0.0000	0.0000	12.7253	0.0000
CJ-7	597.3500	0.0000	0.0000	112.6590	0.0000
CD-5	437.2833	0.0000	0.0000	11.3723	0.0000
CJ-8	599.8333	0.0000	0.0000	112.6571	0.0000
CD-6	436.1500	0.0000	0.0000	11.6814	0.0000
CD-7	485.6250	0.0000	0.0000	12.1065	0.0000
CC-32	588.6417	0.0000	0.0000	78.9827	0.0000
CJ-8a	584.7750	0.0000	0.0000	112.7312	0.0000
CC-31	582.2583	0.0000	0.0000	79.6355	0.0000
CJ-6a	587.1167	0.0000	0.0000	112.6870	0.0000
CC-24	587.9667	0.0000	0.0000	73.6278	0.0000
CC-23	587.9583	0.0000	0.0000	74.7394	0.0000
CC-22	580.9417	0.0000	0.0000	77.2536	0.0000
CJ-29	578.9917	0.0000	0.0000	38.6269	0.0000
CC-14	544.4167	0.0000	0.0000	45.4191	0.0000
CC-13	0.0000	0.0000	0.0000	44.4258	0.0000
CC-12	0.0000	0.0000	0.0000	0.0000	0.0000
CC-11	0.0000	0.0000	0.0000	0.0000	0.0000
CC-10	558.9833	0.0000	0.0000	52.1396	0.0000

CJ-28	576.6750	0.0000	0.0000	33.7642	0.0000
CJ-27	576.0917	0.0000	0.0000	33.3468	0.0000
CC-15	29.7500	0.0000	0.0000	9.9547	0.0000
CC-16	37.9000	0.0000	0.0000	13.2675	0.0000
CC-17	31.5000	0.0000	0.0000	10.2352	0.0000
CC-18	12.9750	0.0000	0.0000	7.7846	0.0000
CC-19	0.0000	0.0000	0.0000	40.1797	0.0000
CC-20	0.0000	0.0000	0.0000	12.9131	0.0000
CC-21	0.0000	0.0000	0.0000	11.0954	0.0000
CC-28	306.7750	0.0000	0.0000	47.4353	0.0000
CC-29	0.0000	0.0000	0.0000	3.9117	0.0000
CC-25	0.1667	0.0000	0.0000	6.6286	0.0000
CC-26	9.4333	0.0000	0.0000	15.6573	0.0000
CC-27	0.2583	0.0000	0.0000	6.7697	0.0000
CD-8	515.3250	0.0000	0.0000	12.4305	0.0000
CD-9	0.2083	0.0000	0.0000	12.0319	0.0000
CJ-13	585.6917	0.0000	0.0000	116.3453	0.0000
CC-35	36.8250	0.0000	0.0000	11.9626	0.0000
CC-33	0.0000	0.0000	0.0000	64.2871	0.0000
CC-36	40.9750	0.0000	0.0000	19.3811	0.0000
CC-37	38.6417	0.0000	0.0000	12.4510	0.0000
CC-38	0.0000	0.0000	0.0000	9.6807	0.0000
CC-39	586.1167	0.0000	0.0000	79.5937	0.0000
CD-10	530.0250	0.0000	0.0000	13.9876	0.0000
CJ-15	588.6583	0.0000	0.0000	119.3535	0.0000
CD-11	543.8083	0.0000	0.0000	16.9742	0.0000
CJ-16	590.3833	0.0000	0.0000	122.7217	0.0000
CJ-17	592.7750	0.0000	0.0000	138.2842	0.0000
CC-4	588.3000	80.9250	0.0000	3327.9575	3798.1908
CJ-11	585.9417	0.0000	0.0000	114.9522	0.0000
CJ-9	585.4417	0.0000	0.0000	114.0137	0.0000
CJ-12a	586.7250	0.0000	0.0000	116.3522	0.0000
CC-44	590.4500	0.0000	0.0000	114.7577	0.0000
CC-34	586.2667	0.0000	0.0000	78.2228	0.0000
CC-40	288.1417	0.1750	0.0000	455.7082	160.8858
CC-43	550.9667	0.0000	0.0000	134.0180	0.0000
CC-46	418.6132	0.0000	0.0000	42.2411	0.0000
CC-45	452.2111	0.0000	0.0000	47.4726	0.0000
CC-57	522.6623	0.0000	0.0000	122.4475	0.0000
CC-42	14.1083	0.0000	0.0000	177.0488	0.0000
CD-12	493.6583	0.0000	0.0000	30.6591	0.0000
CD-13	448.1833	0.0000	0.0000	49.2753	0.0000
CC-30	492.8250	0.0000	0.0000	46.1705	0.0000
CC-49	534.6250	1.4000	0.0000	661.9543	81.2835
CC-47	545.4500	0.0083	0.0000	73.5015	0.8641
CJ-21	597.1083	0.0000	0.0000	138.1999	0.0000
CJ-24	601.2833	0.0000	0.0000	134.8653	0.0000
CJ-33	607.2833	0.0000	0.0000	139.7958	0.0000
CE-10	586.2833	0.0000	0.0000	64.5279	0.0000
CD-23	585.8250	0.0000	0.0000	15808.2218	0.0000
CJ-47	630.2833	534.7667	0.0000	25482.9593	30552.0926
CD-29	605.9583	0.0000	0.0000	15808.2218	0.0000
CR-98	721.3148	0.0000	0.0000	196.2816	0.0000
CR-97	706.8860	389.7750	0.0000	5198.5568	7028.5741
CE-11	595.0333	0.0000	0.0000	70.3700	0.0000
CR-23	653.7750	307.1917	0.0000	2293.4195	2511.9277
CR-35	743.2833	0.0000	0.0000	15801.8185	0.0000
CR-37	727.6050	0.0000	0.0000	110.9201	0.0000
CR-38	710.1528	0.0000	0.0000	15811.6631	0.0000
CR-22	711.0577	0.0000	0.0000	103.5063	0.0000
CR-20	716.2091	0.0000	0.0000	15817.6743	0.0000
CR-41	0.0000	0.0000	0.0000	7.5545	0.0000
CR-10	0.0000	0.0000	0.0000	168.3186	0.0000
CR-88	0.0000	0.0000	0.0000	12.8783	0.0000

CR-24	615.1417	327.5000	0.0000	2369.0726	2881.2622
CE-1	559.0417	0.0000	0.0000	25.6554	0.0000
CD-15	590.0833	0.0000	0.0000	25.5016	0.0000
CD-31	616.5667	0.0000	0.0000	15809.1366	0.0000
CR-13	622.8750	0.0000	0.0000	15806.0438	0.0000
CR-17	679.5333	0.0000	0.0000	7228.3058	0.0000
CJ-53a	643.0667	449.1583	0.0000	8774.6587	10700.2440
CJ-50	636.6833	389.5833	0.0000	4854.7333	5360.0344
CJ-49	633.8250	394.1500	0.0000	4854.8766	5126.3137
CR-14	622.0167	0.0000	0.0000	15816.9338	0.0000
CG-11	589.7833	0.0000	0.0000	65.4744	0.0000
CJ-40	620.3917	348.3833	0.0000	3328.5558	3788.3701
CG-1	574.2583	0.0000	0.0000	818.8758	0.0000
CJ-37	609.9833	0.0000	0.0000	141.7994	0.0000
CE-7	598.6500	0.0000	0.0000	99.2377	0.0000
CE-5	595.6583	0.0000	0.0000	841.4615	0.0000
CE-4	591.8750	0.0000	0.0000	5594.6475	0.0000
CJ-45	627.4333	269.7583	0.0000	1217.1658	1660.4519
CD-24	605.1583	0.0000	0.0000	15808.2218	0.0000
CC-50	425.7417	0.0000	0.0000	48.3990	0.0000
CJ-18	593.7667	0.0000	0.0000	138.9878	0.0000
CJ-20	596.0000	0.0000	0.0000	138.3820	0.0000
CC-51	531.6333	0.0000	0.0000	41.1384	0.0000
CC-52	518.4500	0.0000	0.0000	53.0684	0.0000
CD-14	570.0083	0.0000	0.0000	19.3751	0.0000
CJ-22	598.4417	0.0000	0.0000	138.5868	0.0000
CC-53	0.0000	0.0000	0.0000	12.4643	0.0000
CC-55	578.5917	0.0000	0.0000	66.1343	0.0000
CJ-25	599.8917	0.0000	0.0000	134.3158	0.0000
CD-16	578.5583	0.0000	0.0000	155.7190	0.0000
CJ-26	600.8250	0.0000	0.0000	135.5339	0.0000
CD-17	593.0750	0.0000	0.0000	7851.5262	0.0000
CJ-30	603.9250	0.0000	0.0000	136.5373	0.0000
CD-18	589.1500	0.0000	0.0000	4134.5792	0.0000
CJ-32	605.0750	0.0000	0.0000	137.7908	0.0000
CJ-31	604.9833	0.0000	0.0000	137.6657	0.0000
CE-2	564.9417	0.0000	0.0000	24.2367	0.0000
CE-3	582.0250	0.0000	0.0000	87.7673	0.0000
CE-9	576.1667	0.0000	0.0000	60.3284	0.0000
CE-6	597.5083	352.6167	0.0000	2608.9688	2970.0479
CD-19	591.9500	0.0000	0.0000	6199.4233	0.0000
CD-20	596.9500	0.0000	0.0000	13713.7810	0.0000
CF-1	0.0000	0.0000	0.0000	10.0346	0.0000
CF-2	0.0000	0.0000	0.0000	13.9108	0.0000
CD-21	602.6667	0.0000	0.0000	15808.2218	0.0000
CJ-37a	612.0167	307.2750	0.0000	1848.3507	1830.7251
CD-22	599.4750	0.0000	0.0000	15682.6309	0.0000
CJ-37c	614.3167	0.0000	0.0000	144.5504	0.1538
CJ-37b	613.1333	0.0000	0.0000	143.8019	0.0000
CG-2	584.8083	0.0000	0.0000	15803.8658	0.0000
CG-4	602.3417	0.0000	0.0000	11828.7602	0.0000
CG-7	598.2000	0.0000	0.0000	71.5745	0.0000
CG-3	586.9250	0.0000	0.0000	9520.2493	0.0000
CG-8	613.0667	0.0000	0.0000	97.6875	0.0000
CG-9	625.2417	0.0000	0.0000	111.8806	0.0000
CG-10	627.7333	545.5583	0.0000	15441.8150	20983.9978
CH-1	604.6750	0.0000	0.0000	27.8918	0.0000
CJ-38	616.8917	0.0000	0.0000	145.9289	0.1353
CH-2	602.4167	0.0000	0.0000	80.4680	0.0000
CH-3	624.1167	0.0000	0.0000	93.5332	0.0000
CJ-41	621.5000	348.4833	0.0000	3329.5847	3643.1597
CK-1	628.4481	0.0000	0.0000	15803.8658	0.0000
CK-2	633.8361	0.0000	0.0000	15810.3998	0.0000
CK-3	634.5655	558.8750	0.0000	31005.3861	36191.7291

CK-4	0.0000	0.0000	0.0000	97.5665	0.0000
CJ-43	624.5167	270.0500	0.0000	1214.5765	1408.9154
CK-5	637.5167	0.0000	0.0000	112.3353	0.0000
CK-6	0.0000	0.0000	0.0000	8.0406	0.0000
CK-7	0.0000	0.0000	0.0000	11.5291	0.0000
CD-27	606.2917	0.0000	0.0000	15808.2218	0.0000
CK-8	598.9917	0.0000	0.0000	77.4504	0.0000
CD-28	599.4917	0.0000	0.0000	15808.2218	0.0000
CJ-46	629.5500	269.3417	0.0000	1218.6987	1667.7610
CK-9	598.8583	0.0000	0.0000	77.3290	0.0000
CJ-48	632.6083	525.7500	0.0000	25482.9651	28625.5931
CL-6	632.2000	529.0250	0.0000	25431.2969	29515.4895
CL-5	630.5667	0.0000	0.0000	110.4867	0.0000
CL-4a	631.8250	0.0000	0.0000	103.4050	0.0000
CL-4	629.9167	0.0000	0.0000	96.3370	0.0000
CL-8	622.4417	0.0000	0.0000	15810.9225	0.0000
CL-3	624.4833	0.0000	0.0000	15808.2218	0.0000
CL-2	626.1167	0.0000	0.0000	15808.2218	0.0000
CL-1	627.4833	0.0000	0.0000	73.8828	0.0000
CL-9	626.9917	0.0000	0.0000	15805.3033	0.0000
CL-7	649.9083	0.0000	0.0000	106.4795	0.0000
CD-30	596.8167	0.0000	0.0000	15808.2218	0.0000
CJ-51	634.0500	460.8833	0.0000	10062.0003	12453.8645
CJ-52	640.7500	458.6750	0.0000	10060.0297	11827.2485
CP-1	582.2250	0.0000	0.0000	71.2862	0.0000
CJ-53	642.0083	457.0750	0.0000	10057.9693	13072.3448
CR-25	651.3667	0.0000	0.0000	102.7619	0.0000
CR-15	622.8917	310.7583	0.0000	1705.1345	2682.1322
CR-16	673.9250	0.0000	0.0000	13269.6776	0.0000
CR-18	719.6574	0.0000	0.0000	7832.0162	0.0000
CR-19	717.1389	0.0000	0.0000	15824.8182	0.0000
CR-21	715.9102	692.1408	0.0000	194681.3516	221125.6784
CR-36	742.4596	0.0000	0.0000	15803.8658	0.0000
CR-6	705.5526	0.0000	0.0000	152.3328	0.0000
CR-8	607.7250	578.4833	0.0000	396695.9227	438312.5531
CR-8a	705.5000	578.6083	0.0000	396832.9378	456699.8738
CR-9	0.0000	0.0000	0.0000	166.9522	0.0000
CR-10a	595.5333	0.0000	0.0000	172.7850	0.0000
CR-45	675.8667	0.0000	0.0000	15840.7176	0.0000
CR-31	679.1000	0.0000	0.0000	15823.0758	0.0000
CR-30	734.7278	0.0000	0.0000	15817.1516	0.0000
CR-29	727.4417	0.0000	0.0000	15809.3979	0.0000
CR-33	679.1750	649.4250	0.0000	123308.9248	140954.1228
CR-27	730.9083	0.0000	0.0000	15801.6878	0.0000
CR-33a	681.7750	0.0000	0.0000	106.1162	0.0000
CR-34a	682.1833	627.8500	0.0000	124007.3932	142833.9410
CR-34	683.1750	0.0000	0.0000	106.1828	0.0000
CR-32	728.7939	0.0000	0.0000	82.7707	0.0000
CR-MH32	680.4250	0.0000	0.0000	103.6063	0.0000
CR-12	615.2750	193.2917	0.0000	846.0662	766.0427
CR-11	590.8917	266.8250	0.0000	902.5213	1970.8342
CE-8	599.9500	0.0000	0.0000	113.4178	0.0000
CF-3	0.0000	0.0000	0.0000	86.7676	0.0000
CJ-35	608.0083	0.0000	0.0000	140.4218	0.0000
CR-40	0.0000	0.0000	0.0000	12.7248	0.0000
CR-39	0.0000	0.0000	0.0000	12.5277	0.0000
CR-28	728.2750	716.1194	0.0000	165110.9239	191664.0875
CG-6	596.2333	0.0000	0.0000	7933.6540	0.0000
CJ-54	644.7333	447.7500	0.0000	8772.9487	10932.7348
CD-32	607.5417	0.0000	0.0000	15808.2218	0.0000
CJ-55	647.5167	392.3917	0.0000	5243.7461	5512.3921
CJ-56	651.2667	388.3000	0.0000	5240.3490	5459.7215
CJ-57	653.9583	385.5750	0.0000	5236.8847	5355.0482
CJ-58	656.1667	0.0000	0.0000	196.7864	0.0000

CJ-59	657.3583	0.0000	0.0000	197.5375	0.0000
CR-3	600.6750	528.4333	0.0000	49492.5982	52652.2676
CR-4	612.7167	0.0000	0.0000	161.8034	0.0000
CR-5	586.8583	509.4667	0.0000	24925.2323	28790.7793
CR-MH5	589.6083	529.4750	0.0000	49476.3214	56272.6377
CP-2	595.9000	362.5583	0.0000	3262.1738	7695.4926
CP-3	586.9000	190.5000	0.0000	950.4246	1576.1782
CJ-19	595.5250	0.0000	0.0000	138.4744	0.0000
CJ-23	600.0667	0.0000	0.0000	136.8556	0.0000
CJ-39	616.8750	194.1667	0.0000	633.6506	544.0260
CG-5	600.0333	0.0000	0.0000	15809.5722	0.0000
CC-54	0.0000	0.0000	0.0000	71.9618	0.0000
BW8-SW	652.9848	569.4405	0.0000	123221.1206	152579.0551
BW8-SE	727.4009	0.0000	0.0000	134.8785	0.0000
SNT01	1275.0000	0.0000	0.0000	248241.5154	0.0000
CK-3H	596.3583	536.6333	0.0000	15909.0857	31525.9685
CC-56	586.5667	0.0000	0.0000	67.4868	0.0000

==================================
| Simulation Specific Information |
==================================

Number of Input Conduits.....	248	Number of Simulated Conduits.....	250
Number of Natural Channels.....	0	Number of Junctions.....	250
Number of Storage Junctions.....	88	Number of Weirs.....	0
Number of Orifices.....	0	Number of Pumps.....	1
Number of Free Outfalls.....	1	Number of Tide Gate Outfalls.....	0

===
| Average % Change in Junction or Conduit is defined as: |
| Conduit % Change ==> 100.0 (Q(n+1) - Q(n)) / Qfull |
| Junction % Change ==> 100.0 (Y(n+1) - Y(n)) / Yfull |
===

The Conduit with the largest average change was..L-CR-98 with 0.038 percent
The Junction with the largest average change was.BW8-SW with 0.255 percent
The Conduit with the largest sinuosity was.....L-CC-24 with 809.988

==
| Table E21. Continuity balance at the end of the simulation |
| Junction Inflow, Outflow or Street Flooding |
| Error = Inflow + Initial Volume - Outflow - Final   Volume |
==

Inflow Junction	Inflow Volume,ft^3	Average Inflow, cfs
CC-6	8694.0518	0.0671
CC-5	14373.1064	0.1109
CC-1	16974.1567	0.1310
CC-8	27855.2439	0.2149
CJ-1	11754.0836	0.0907
CC-9	8685.0567	0.0670
CC-2	53078.0078	0.4096
CC-3	19557.1973	0.1509
CC-7	8262.0742	0.0638
CJ-2A	4338.0283	0.0335
CJ-2	5229.0356	0.0403
CJ-3	3474.0258	0.0268
CD-2	165345.4876	1.2758
CD-4	9567.0640	0.0738
CD-6	102443.5985	0.7905
CC-32	30465.2340	0.2351
CC-24	20457.1556	0.1578
CC-23	15642.1131	0.1207
CJ-29	3897.0295	0.0301
CC-14	8694.0615	0.0671
CC-13	7398.0500	0.0571
CC-10	20016.1261	0.1544
CJ-28	135793.3578	1.0478
CJ-27	3483.0210	0.0269
CC-15	8271.0872	0.0638
CC-16	4770.0472	0.0368
CC-17	23931.2450	0.1847
CC-18	7398.0794	0.0571
CC-19	20475.1779	0.1580
CC-20	8262.0742	0.0638
CC-21	13050.1170	0.1007
CC-28	13473.1095	0.1040

CC-29	13527.1155	0.1044
CC-25	12177.1353	0.0940
CC-26	33525.2349	0.2587
CC-27	5229.0650	0.0403
CC-35	5652.0735	0.0436
CC-33	13059.1110	0.1008
CC-36	57636.3121	0.4447
CC-37	6516.0423	0.0503
CC-38	21330.1852	0.1646
CC-39	23958.1865	0.1849
CD-10	107182.0863	0.8270
CD-11	18261.1254	0.1409
CC-44	21771.1781	0.1680
CC-43	9135.0820	0.0705
CC-46	30447.2988	0.2349
CC-57	27414.1713	0.2115
CC-42	47025.5462	0.3629
CC-49	17838.1379	0.1376
CE-10	16974.1144	0.1310
CD-23	88389.9823	0.6820
CD-29	211840.3359	1.6346
CE-11	6525.0475	0.0503
CR-35	6516.0423	0.0503
CR-37	23517.2108	0.1815
CR-38	18279.1061	0.1410
CR-20	13041.1700	0.1006
CR-41	9135.0820	0.0705
CR-88	26559.2377	0.2049
CE-1	4761.0320	0.0367
CD-15	27855.2931	0.2149
CD-31	48330.3402	0.3729
CR-13	29592.1662	0.2283
CR-17	8694.1223	0.0671
CR-14	11295.1015	0.0872
CG-11	14382.1284	0.1110
CG-1	16965.1193	0.1309
CE-7	13905.1248	0.1073
CE-5	99693.4916	0.7692
CE-4	13041.0801	0.1006
CD-24	137651.9799	1.0621
CC-52	20916.1816	0.1614
CD-14	62712.2756	0.4839
CC-53	19170.1497	0.1479
CC-55	27441.2287	0.2117
CD-16	26082.2323	0.2013
CD-17	47871.4332	0.3694
CE-2	3897.0295	0.0301
CE-3	7398.0500	0.0571
CE-9	20457.1719	0.1578
CE-6	19161.1441	0.1478
CD-19	49185.2172	0.3795
CD-20	39150.3673	0.3021
CF-1	10863.0975	0.0838
CF-2	10863.0975	0.0838
CD-21	39159.3807	0.3022
CD-22	76635.8625	0.5913
CG-2	43497.5318	0.3356
CG-4	6084.0438	0.0469
CG-7	49194.3427	0.3796
CG-3	6084.0821	0.0469
CG-8	18693.1675	0.1442
CG-9	27432.2019	0.2117
CG-10	16074.2032	0.1240
CH-1	33561.2613	0.2590

CK-1	16119.1754	0.1244
CK-2	6966.0711	0.0538
CK-3	24372.3097	0.1881
CK-4	19575.1753	0.1510
CK-6	20016.1119	0.1544
CK-7	16110.1388	0.1243
CD-27	205911.8677	1.5888
CK-8	24372.2186	0.1881
CD-28	121887.4848	0.9405
CK-9	15246.1366	0.1176
CL-5	14823.1329	0.1144
CL-4	25209.1473	0.1945
CL-8	12636.0716	0.0975
CL-3	9549.1033	0.0737
CL-1	35676.2287	0.2753
CL-7	40905.3665	0.3156
CD-30	21744.1311	0.1678
CR-25	32661.2928	0.2520
CR-15	8280.0530	0.0639
CR-16	16524.1743	0.1275
CR-18	6948.0625	0.0536
CR-19	32634.2713	0.2518
CR-21	9999.1307	0.0772
CR-36	11304.0695	0.0872
CR-8	44415.3920	0.3427
CR-9	24363.1496	0.1880
CR-45	224930.5359	1.7356
CR-31	10440.0670	0.0806
CR-30	9558.1223	0.0738
CR-29	9135.0506	0.0705
CR-27	8271.0872	0.0638
CR-34	44424.5421	0.3428
CR-32	36963.2207	0.2852
CR-11	52245.6110	0.4031
CR-28	23085.2647	0.1781
CG-6	4779.0272	0.0369
CJ-56	282979.4588	2.1835
CJ-59	1.13873E+06	8.7865
CR-5	19575.1753	0.1510
CJ-19	9135.1046	0.0705
CG-5	7830.0541	0.0604
BW8-SW	798828.2126	6.1638
BW8-SE	526298.1463	4.0609
SNT01	525824.4037	4.0573
CC-56	27423.1962	0.2116
CJ-59	-7.163E+06	-55.2689

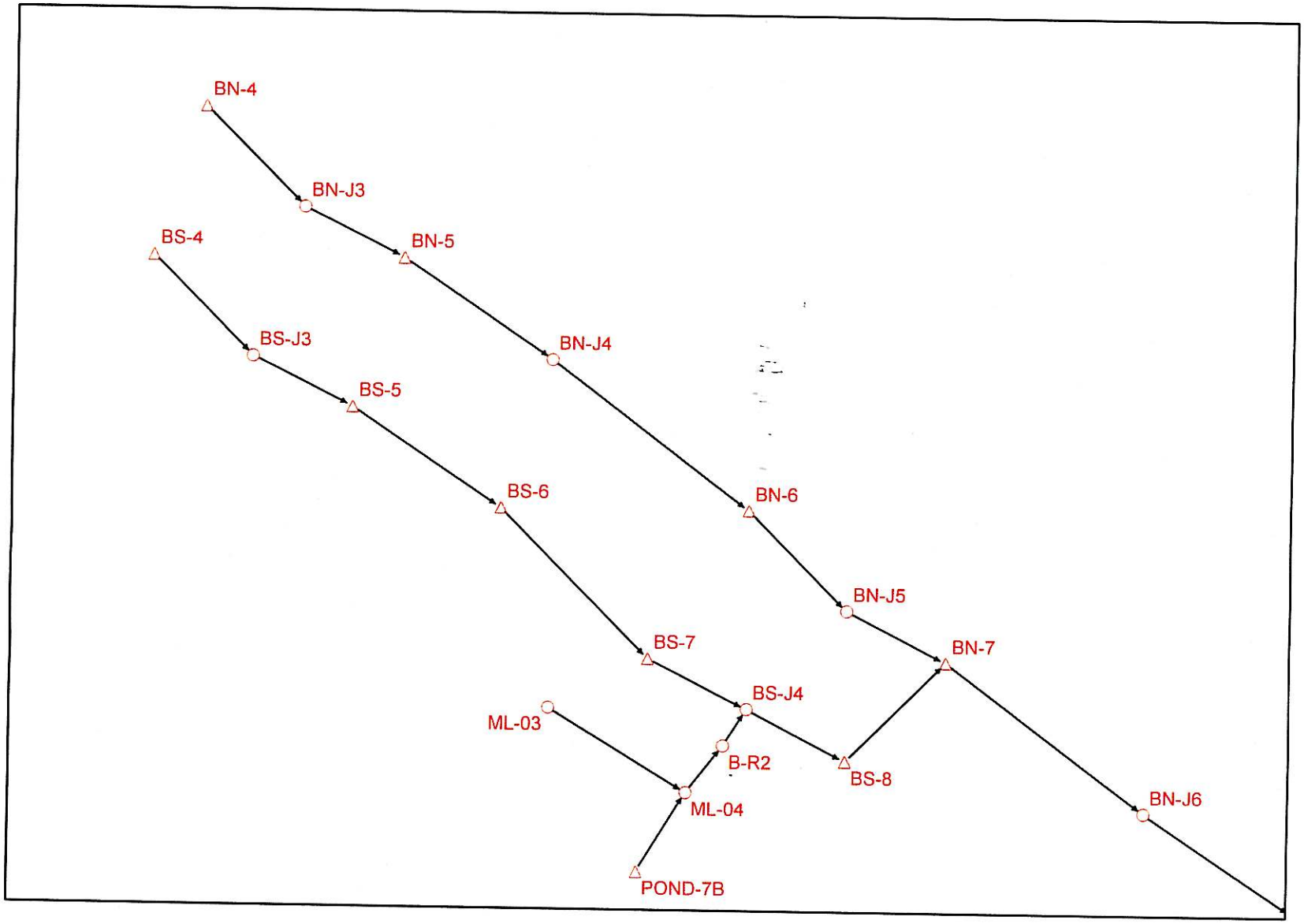
Outflow Junction	Outflow Volume,ft^3	Average Outflow, cfs
CJ-59	7.16285E+06	55.2689

```
*=====================================================*
| Initial system volume        =         0.0000 Cu Ft |
| Total system inflow volume   =   7.383979E+06 Cu Ft |
| Inflow + Initial volume      =   7.383979E+06 Cu Ft |
*=====================================================*
| Total system outflow         =   7.162847E+06 Cu Ft |
| Volume left in system        =    178481.8476 Cu Ft |
| Evaporation                  =         0.0000 Cu Ft |
| Outflow + Final Volume       =   7.341329E+06 Cu Ft |
*=====================================================*

*=============================================*
| Total Model Continuity Error                |
| Error in Continuity, Percent =         0.5776 |
| Error in Continuity, ft^3    =      42649.661 |
| + Error means a continuity loss, - a gain   |
*=============================================*
```

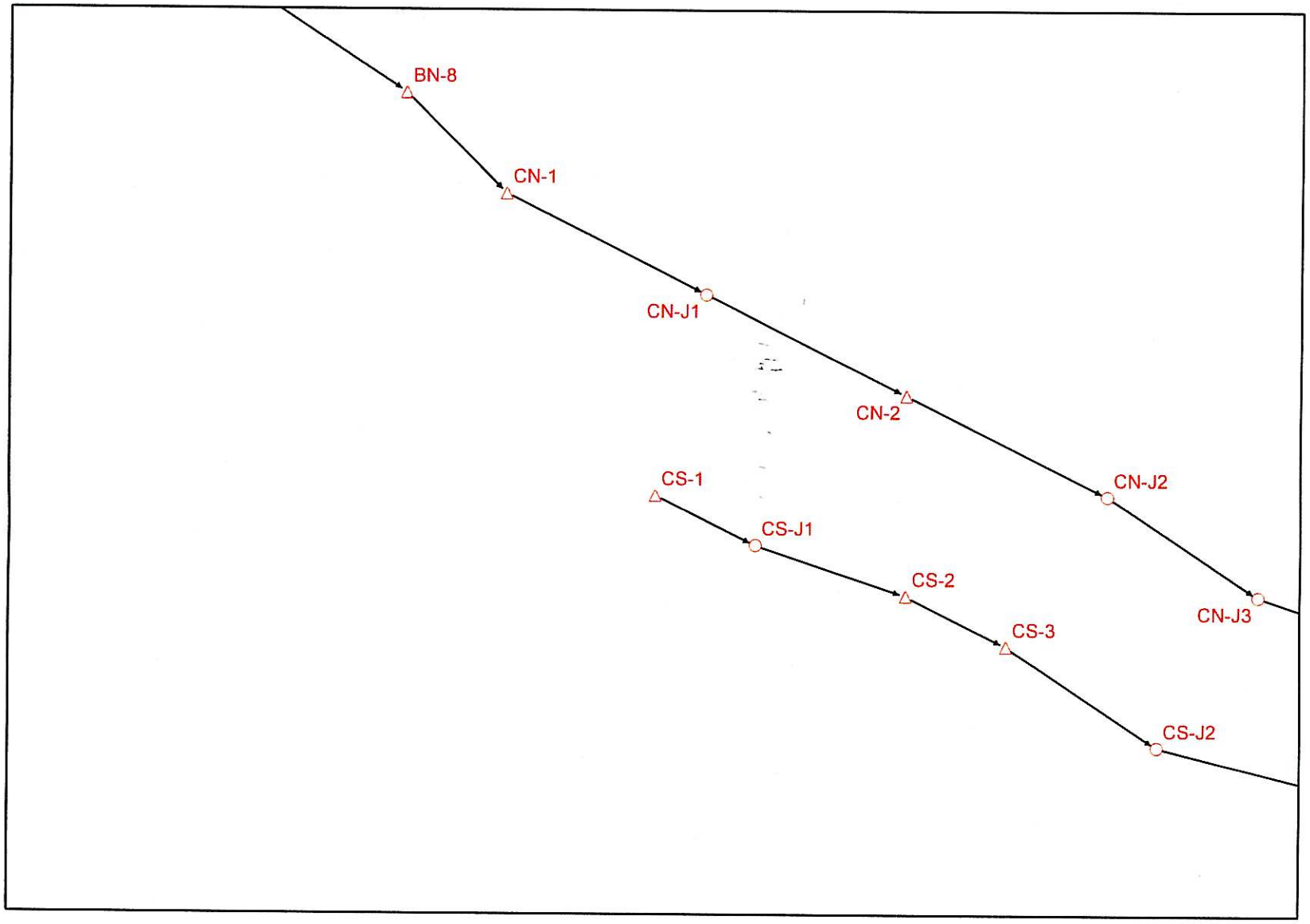
```
################################################
# Table E22. Numerical Model judgement section #
################################################

Your overall error was                                  0.5776 percent


Worst nodal error was in node BW8-SW           with       -3.7482 percent


Of the total inflow this loss was                       0.8426 percent


Your overall continuity error was                Excellent


                                                Excellent Efficiency


Efficiency of the simulation                     1.72


Most Number of Non Convergences at one Node      0.


Total Number Non Convergences at all Nodes       0.


Total Number of Nodes with Non Convergences      0.



===> Hydraulic model simulation ended normally.
===> XP-SWMM Simulation ended normally.



===> Your input file was named  : P:\PROJECTS\290PMC\PhaseII\DRA\Models\SWMM\Segment C\BW8Existing_100.DAT
===> Your output file was named : P:\PROJECTS\290PMC\PhaseII\DRA\Models\SWMM\Segment C\BW8Existing_100.out

*============================================================*
|            SWMM Simulation Date and Time Summary           |
*============================================================*
| Starting Date... August     20, 2009  Time...    15:10: 1: 5  |
|   Ending Date... August     20, 2009  Time...    15:17: 8:69  |
|  Elapsed Time...     7.12733 minutes or     427.64000 seconds  |
*============================================================*
```

OUTFALL 8
SWMM OUTPUT
100 YR- MITIGATED CONDITIONS

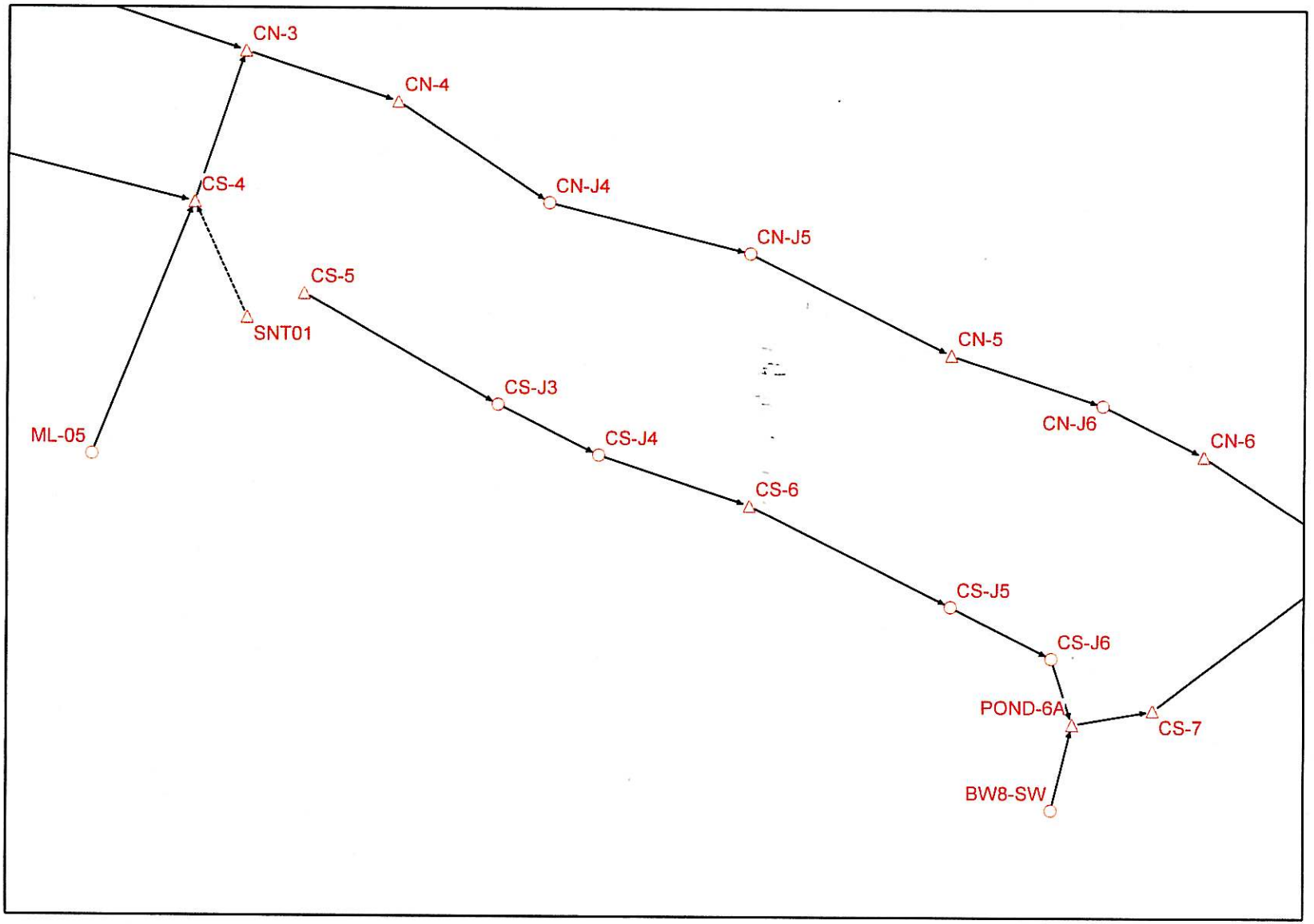
OUTFALL 8
MITIGATED CONDITIONS SWMM LAYOUT



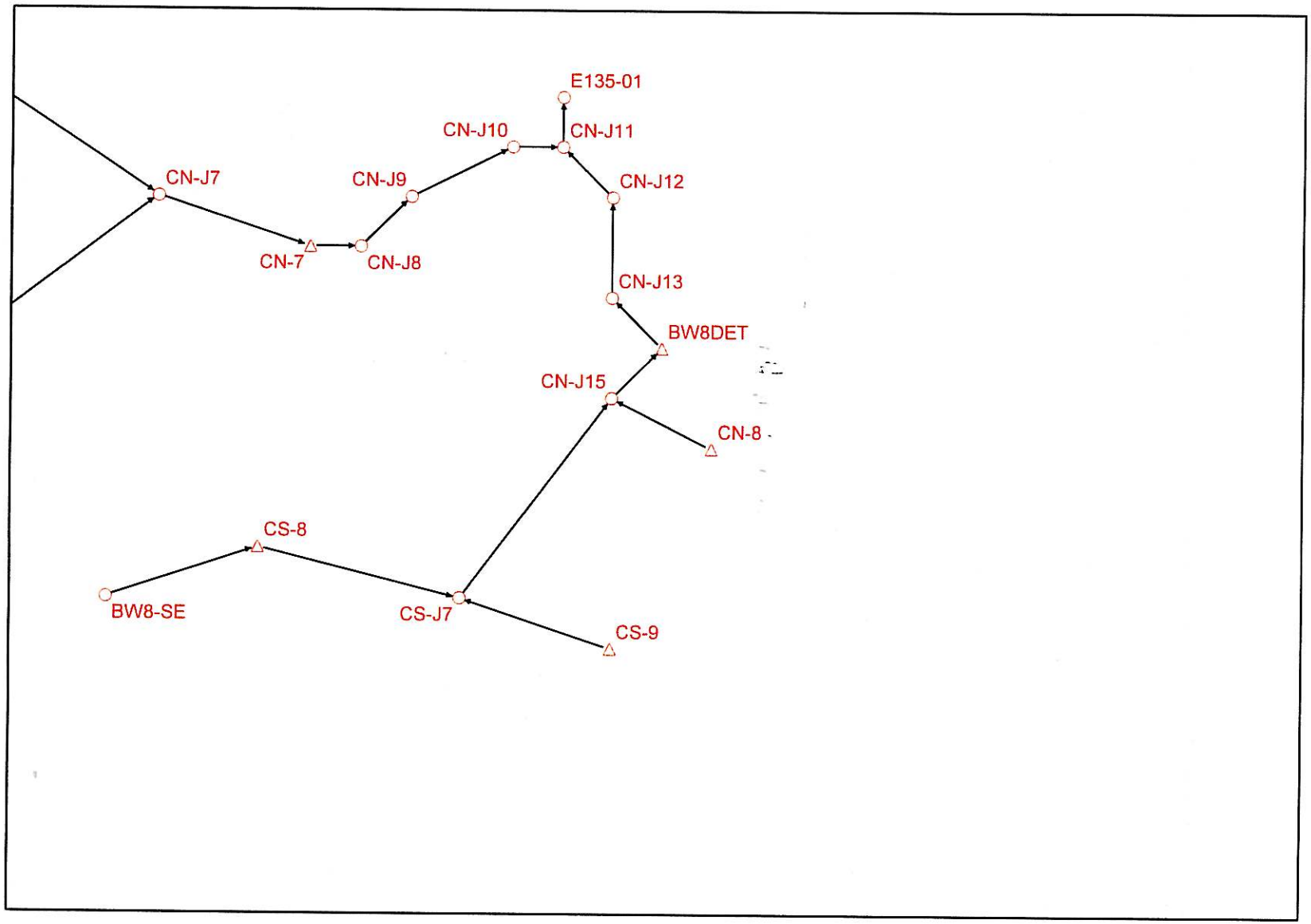
OUTFALL 8
MITIGATED CONDITIONS SWMM LAYOUT



OUTFALL 8
MITIGATED CONDITIONS SWMM LAYOUT



OUTFALL 8
MITIGATED CONDITIONS SWMM LAYOUT



```
 Current Directory:   C:\XPS\xpstorm
 Engine Name: C:\XPS\xpstorm\SWMMEN~1.EXE


 Input File : :\PROJECTS\290PMC\PhaseII\DRA\Models\SWMM\Segment C\BW8MIT_100.XP

          *================================================*
          |                     xpswmm                     |
          |     Storm and Wastewater Management Model      |
          |           Interface Version: 10.6              |
          |              Engine Version: 10.54             |
          |================================================|
          |                                                |
          |                Developed by                    |
          |                                                |
          |                XP Software                     |
          |                                                |
          |================================================|
          |      XP Software       November, 2006          |
          |       Data File Version --->    11.9           |
          |       Serial Number: 66-1060-0635              |
          |             Scientech Engineers                |
          *================================================*

Engine Name: C:\XPS\xpstorm\SWMMEN~1.EXE


*=================================================*
|       Input and Output file names by Layer      |
*=================================================*

 Input File  to Layer #     1 JOT.US
 Output File to Layer #     1 JOT.US

*============================================================*
|   Special command line arguments in XP-SWMM2000. This     |
|   now includes program defaults. $Keywords are the program|
|   defaults.  Other Keywords are from the SWMMCOM.CFG file.|
|   or the command line or any cfg file on the command line.|
|   Examples include these in the file xpswm.bat under the   |
|   section :solve or in the windows version XPSWMM32 in the|
|   file solve.bat                                           |
|                                                            |
|   Note: the cfg file should be in the subdirectory swmxp   |
|         or defined by the set variable in the xpswm.bat    |
|         file.  Some examples of the command lines possible|
|         are shown below:                                   |
|                                                            |
|   swmmd swmmcom.cfg                                        |
|   swmmd my.cfg                                             |
|   swmmd nokeys nconv5 perv extranwq                        |
*============================================================*

 $powerstation                        0.0000         1         2
 $perv                                0.0000         0         4
 $oldegg                              0.0000         0         7
 $as                                  0.0000         0        11
 $noflat                              0.0000         0        21
 $oldomega                            0.0000         0        24
 $oldvol                              0.0000         1        28
 $implicit                            0.0000         1        29
 $oldhot                              0.0000         1        31
 $oldscs                              0.0000         0        33
 $flood                               0.0000         1        40
 $nokeys                              0.0000         0        42
 $pzero                               0.0000         0        55
 $oldvol2                             0.0000         2        59
 $storage2                            0.0000         3        62
 $oldhot1                             0.0000         1        63
 $pumpwt                              0.0000         1        70
 $ecloss                              0.0000         1        77
 $exout                               0.0000         0        97
 SPATIAL=0.55                         0.5500         5       124
 $djref = -1.0                       -0.1000         3       143
 $weirlen = 50                       50.0000         1       153
 $oldbnd                              0.0000         1       154
 $nogrelev                            0.0000         1       161
 $ncmid                               0.0000         0       164
 $new_nl_97                           0.0000         2       290
 $best97                              0.0000         1       294
 $newbound                            0.0000         1       295
 $q_tol = 0.01                        0.0001         1       316
 $new_storage                         0.0000         1       322
 $old_iteration                       0.0000         1       333
 MINLEN=1.0                           1.0000         1       346
 $review_elevation                    0.0000         1       383
 $use_half_volume                     0.0000         1       385
 $min_ts = 0.5                        0.5000         1       407
 $design_restart = on                 0.0000         1       412
 $zero_value=1.e-05                   0.0000         1       415
 $relax_depth = on                    0.0000         1       427
 $saveallpts = on                     0.0000         1       434

 *============================================================*
 | Parameter Values on the Tapes Common Block.These are the |
 | values read from the data file and dynamically allocated |
 | by the model for this simulation.                        |
 *============================================================*

  Number of Subcatchments in the Runoff Block (NW)....     0
  Number of Channel/Pipes in the Runoff Block (NG)....     0
  Runoff Water quality constituents (NRQ).............     0
  Runoff Land Uses per Subcatchment (NLU).............     0
  Number of Elements in the Transport Block (NET).....     0
  Number of Storage Junctions in Transport (NTSE).....     0
  Number of Input Hydrographs in Transport (NTH)......     0
  Number of Elements in the Extran Block (NEE)........    65
  Number of Groundwater Subcatchments in Runoff (NGW).     0
  Number of Interface locations for all Blocks (NIE)..    65
  Number of Pumps in Extran (NEP).....................     1
  Number of Orifices in Extran (NEO)..................     0
  Number of Tide Gates/Free Outfalls in Extran (NTG)..     1
  Number of Extran Weirs (NEW)........................     0
  Number of scs hydrograph points.....................     1
  Number of Extran printout locations (NPO)...........     0
  Number of Tide elements in Extran (NTE).............     1
  Number of Natural channels (NNC)....................     0
  Number of Storage junctions in Extran (NVSE)........    31
  Number of Time history data points in Extran(NTVAL).   300
  Number of Variable storage elements in Extran (NVST)    14
  Number of Input Hydrographs in Extran (NEH).........    39
  Number of Particle sizes in Transport Block (NPS)...     0
  Number of User defined conduits (NHW)...............    65
  Number of Connecting conduits in Extran (NECC)......    20
  Number of Upstream elements in Transport (NTCC).....    10
  Number of Storage/treatment plants (NSTU)...........     1
```

```
 Number of Values for R1 lines in Transport (NR1)....     0
 Number of Nodes to be allowed for (NNOD)............    65
 Number of Plugs in a Storage Treatment Unit.........     1


#####################################################
#    Entry made to the HYDRAULIC Layer(Block) of SWMM #
#    Last Updated June,2005 by XP Software            #

    US 290/Hempstead Hwy Corridor
    Drainage Impact Study - Existing Conditions Sys_BW8- /// 100-Year Frequ


*============================================================*
|        HYDRAULICS TABLES IN THE OUTPUT FILE                |
|  These are the more important tables in the output file.   |
|  You can use your editor to find the table numbers,        |
|  for example: search for Table E20 to check continuity.    |
|  This output file can be imported into a Word Processor    |
|  and printed on US letter or A4 paper using portrait       |
|  mode, courier font, a size of 8 pt. and margins of 0.75   |
|                                                            |
| Table E1   - Basic Conduit Data                            |
| Table E2   - Conduit Factor Data                           |
| Table E3a  - Junction Data                                 |
| Table E3b  - Junction Data                                 |
| Table E4   - Conduit Connectivity Data                     |
| Table E4a  - Dry Weather Flow Data                         |
| Table E4b  - Real Time Control Data                        |
| Table E5   - Junction Time Step Limitation Summary         |
| Table E5a  - Conduit Explicit Condition Summary            |
| Table E6   - Final Model Condition                         |
| Table E7   - Iteration Summary                             |
| Table E8   - Junction Time Step Limitation Summary         |
| Table E9   - Junction  Summary  Statistics                 |
| Table E10  - Conduit   Summary  Statistics                 |
| Table E11  - Area assumptions used in the analysis         |
| Table E12  - Mean conduit information                      |
| Table E13  - Channel losses(H) and culvert info            |
| Table E13a - Culvert Analysis Classification               |
| Table E14  - Natural Channel Overbank Flow Information     |
| Table E14a - Natural Channel Encroachment Information      |
| Table E14b - Floodplain Mapping                            |
| Table E15  - Spreadsheet Info List                         |
| Table E15a - Spreadsheet Reach List                        |
| Table E16  - New Conduit Output Section                    |
| Table E17  - Pump Operation                                |
| Table E18  - Junction Continuity Error                     |
| Table E19  - Junction Inflow & Outflow Listing             |
| Table E20  - Junction Flooding and Volume List             |
| Table E21  - Continuity balance at simulation end          |
| Table E22  - Model Judgement Section                       |
*============================================================*

Time Control from Hydraulics Job Control
Year.........    2007 Month.......       1
Day..........       1 Hour........       0
Minute.......       0 Second......       0


Control information for simulation
----------------------------------

Integration cycles..................    129600
Length of integration step is......      1.00 seconds
Simulation length...................     36.00 hours
Do not create equiv. pipes(NEQUAL)..        0
Use U.S. customary units for I/O...         0
Printing starts in cycle...........         1
Intermediate printout intervals of.       500 cycles
Intermediate printout intervals of.      8.33 minutes
Summary printout intervals of......       500 cycles
Summary printout time interval of..      8.33 minutes
Hot start file parameter (REDO)....         0
Initial time........................      0.00 hours

Iteration variables: Flow Tolerance.   0.00010
                     Head Tolerance.   0.00010
    Minimum depth (m or ft).........   0.00001
    Underrelaxation parameter.......   0.85000
    Time weighting parameter........   0.85000
    Conduit roughness factor........   1.00000
    Flow adjustment factor..........   1.00000
    Initial Condition Smoothing.....         0
    Courant Time Step Factor........   1.00000
    Default Expansion/Contraction K.   0.00000
    Default Entrance/Exit K.........   0.00000
    Routing Method..................   Dynamic Wave
Default surface area of junctions...     12.57 square feet.
Minimum Junction/Conduit Depth......   0.00001 feet.
Ponding Area Coefficient............   5000.00
Ponding Area Exponent...............    1.0000
Minimum Orifice Length..............    500.00 feet.
NJSW input hydrograph junctions.....    39
     or user defined hydrographs....

*================================================*
|          Table E1 - Conduit Data               |
*================================================*
```

Inp Num	Conduit Name	Length (ft)	Conduit Class	Area (ft^2)	Manning Coef.	Max Width (ft)	Depth (ft)	Trapezoid Side Slopes
1	L_CN23	60.0550	Rectangle	64.0000	0.0130	8.0000	8.0000	
2	L_CN17	184.5410	Rectangle	42.0000	0.0130	7.0000	6.0000	
3	L_CN18	165.1560	Rectangle	54.0000	0.0130	9.0000	6.0000	
4	L_CN16	150.0000	Rectangle	42.0000	0.0130	7.0000	6.0000	
5	L_CN19	200.0390	Rectangle	54.0000	0.0130	9.0000	6.0000	
6	L_CN15	150.0000	Rectangle	42.0000	0.0130	7.0000	6.0000	
7	L_CN14	137.6140	Rectangle	42.0000	0.0130	7.0000	6.0000	
8	L_CN13	299.9970	Rectangle	42.0000	0.0130	7.0000	6.0000	
9	L_CN22	245.6910	Circular	15.9043	0.0130	4.5000	4.5000	
10	L_CS16	535.4330	Circular	28.2743	0.0130	6.0000	6.0000	
11	L_CN12	299.9930	Rectangle	60.0000	0.0130	10.0000	6.0000	
12	L_CS13	524.0220	Rectangle	32.0000	0.0130	8.0000	4.0000	
13	L_CS14	399.9480	Circular	28.2743	0.0130	6.0000	6.0000	
14	L_CS15	299.9400	Circular	9.6211	0.0130	3.5000	3.5000	
15	L_CN11	249.9740	Rectangle	54.0000	0.0130	9.0000	6.0000	
16	L_OS3	125.0000	Rectangle	18.0000	0.0130	6.0000	3.0000	
17	L_CS12	120.0000	Rectangle	32.0000	0.0130	8.0000	4.0000	
18	L_OS4	271.5950	Circular	28.2743	0.0130	6.0000	6.0000	
19	L_CN10	349.9620	Rectangle	54.0000	0.0130	9.0000	6.0000	
20	L_CS11	300.0000	Circular	12.5664	0.0130	4.0000	4.0000	
21	L_CN9	400.0000	Rectangle	54.0000	0.0130	9.0000	6.0000	
22	L_CS10	400.0000	Circular	12.5664	0.0130	4.0000	4.0000	
23	L_CN8	399.9270	Rectangle	54.0000	0.0130	9.0000	6.0000	
24	L_CS9	300.0000	Circular	7.0686	0.0130	3.0000	3.0000	

25	L_CN7	400.0000	Rectangle	54.0000	0.0130	9.0000	6.0000
26	L_CS8	299.9180	Circular	7.0686	0.0130	3.0000	3.0000
27	L_CN6	320.2200	Rectangle	54.0000	0.0130	9.0000	6.0000
28	L_CS7	399.9910	Circular	7.0686	0.0130	3.0000	3.0000
29	L_CN5	280.2880	Rectangle	45.0000	0.0130	9.0000	5.0000
30	L_CS6	361.7330	Rectangle	24.0000	0.0130	6.0000	4.0000
31	L_CN4	400.0000	Rectangle	45.0000	0.0130	9.0000	5.0000
32	L_CS5	349.8880	Circular	12.5664	0.0130	4.0000	4.0000
33	L_OS2	508.2260	Circular	9.6211	0.0130	3.5000	3.5000
34	L_CN3	399.7010	Rectangle	45.0000	0.0130	9.0000	5.0000
35	L_CS4	349.9770	Circular	12.5664	0.0130	4.0000	4.0000
36	L_CN2	438.1840	Rectangle	40.0000	0.0130	8.0000	5.0000
37	L_CS3	299.9540	Circular	12.5664	0.0130	4.0000	4.0000
38	L_CN1	438.3750	Rectangle	40.0000	0.0130	8.0000	5.0000
39	L_CS2	250.0000	Circular	9.6211	0.0130	3.5000	3.5000
40	L_BN13	323.4410	Rectangle	40.0000	0.0120	8.0000	5.0000
41	L_CS1	249.9590	Circular	7.0686	0.0130	3.0000	3.0000
42	L_BN12	400.0000	Rectangle	40.0000	0.0130	8.0000	5.0000
43	L_BN11	399.6820	Rectangle	40.0000	0.0130	8.0000	5.0000
44	L_BN10	300.3180	Rectangle	20.0000	0.0130	5.0000	4.0000
45	L_BS12	319.5260	Rectangle	40.0000	0.0130	8.0000	5.0000
46	L_BN9	299.6820	Rectangle	20.0000	0.0130	5.0000	4.0000
47	L_BS10	225.0000	Rectangle	40.0000	0.0130	8.0000	5.0000
48	L_BS14	132.3300	Rectangle	40.0000	0.0130	8.0000	5.0000
49	L_BN8	400.3170	Circular	12.5664	0.0130	4.0000	4.0000
50	L_BS9	224.9940	Circular	12.5664	0.0130	4.0000	4.0000
51	L_BS13	200.0000	Rectangle	40.0000	0.0130	8.0000	5.0000
52	L_BN7	399.6430	Circular	12.5664	0.0130	4.0000	4.0000
53	L_BS8	399.9280	Circular	12.5664	0.0130	4.0000	4.0000
54	L_BN6	250.3310	Circular	7.0686	0.0130	3.0000	3.0000
55	L_BS7	400.0000	Circular	9.6211	0.0130	3.5000	3.5000
56	L_BN5	249.6650	Circular	7.0686	0.0130	3.0000	3.0000
57	L_BS6	250.0000	Circular	7.0686	0.0130	3.0000	3.0000
58	L_BS5	250.0000	Circular	7.0686	0.0130	3.0000	3.0000
59	Link615	40.3000	Rectangle	40.0000	0.0400	8.0000	5.0000
60	Link616	70.0000	Circular	12.5664	0.0130	4.0000	4.0000
61	Link617	130.0000	Rectangle	36.0000	0.0130	6.0000	6.0000
62	Link618	130.0000	Circular	12.5664	0.0130	4.0000	4.0000
63	BS-ML	819.6400	Circular	19.6350	0.0130	5.0000	5.0000

Total length of all conduits .... 18930.0980 feet

==
| Table E2 - Conduit Factor Data |
==

Conduit Name	Number of Barrels	Entrance Loss Coef	Exit Loss Coef	Exp/Contc Coefficnt	Time Weighting Parameter	Low Flow Roughness Factor	Depth at Which n Changes	Flow Routing
L_CN23	2.0000	0.0000	0.0000	0.0000	0.8500	1.0000	0.0000	Standard - Dynamic Wave
L_CN17	2.0000	0.0000	0.0000	0.0000	0.8500	1.0000	0.0000	Standard - Dynamic Wave
L_CN16	2.0000	0.0000	0.0000	0.0000	0.8500	1.0000	0.0000	Standard - Dynamic Wave
L_CN15	2.0000	0.0000	0.0000	0.0000	0.8500	1.0000	0.0000	Standard - Dynamic Wave
L_CN14	2.0000	0.0000	0.0000	0.0000	0.8500	1.0000	0.0000	Standard - Dynamic Wave
L_CN13	2.0000	0.0000	0.0000	0.0000	0.8500	1.0000	0.0000	Standard - Dynamic Wave

==
| If there are messages about (sqrt(g*d)*dt/dx), or |
| the sqrt(wave celerity)*time step/conduit length |
| in the output file all it means is that the |
| program will lower the internal time step to |
| satisfy this condition (explicit condition). |
| You control the actual internal time step by |
| using the minimum courant time step factor in the |
| HYDRAULICS job control. The message put in words |
| states that the smallest conduit with the fastest |
| velocity will control the time step selection. |
| You have further control by using the modify |
| conduit option in the HYDRAULICS Job Control. |
==

Conduit Name	Courant Ratio
L_CN23	0.27
L_CN17	0.08
L_CN18	0.08
L_CN16	0.09
L_CN19	0.07
L_CN15	0.09
L_CN14	0.10
L_CN13	0.05
L_CN22	0.05
L_CS16	0.03
L_CN12	0.05
L_CS13	0.02
L_CS14	0.03
L_CS15	0.04
L_CN11	0.06
L_OS3	0.08
L_CS12	0.09
L_OS4	0.05
L_CN10	0.04
L_CS11	0.04
L_CN9	0.03
L_CS10	0.03
L_CN8	0.03
L_CS9	0.03
L_CN7	0.03
L_CS8	0.03
L_CN6	0.04
L_CS7	0.02
L_CN5	0.05
L_CS6	0.03
L_CN4	0.03
L_CS5	0.03
L_OS2	0.02
L_CN3	0.03
L_CS4	0.03
L_CN2	0.03
L_CS3	0.04
L_CN1	0.03
L_CS2	0.04
L_BN13	0.04
L_CS1	0.04
L_BN12	0.03
L_BN11	0.03
L_BN10	0.04
L_BS12	0.04
L_BN9	0.04
L_BS10	0.06
L_BS14	0.10
L_BN8	0.03
L_BS9	0.05
L_BS13	0.06
L_BN7	0.03
L_BS8	0.03

L_BN6	0.04
L_BS7	0.03
L_BN5	0.04
L_BS6	0.04
L_BS5	0.04
Link615	0.31
Link616	0.16
Link617	0.11
Link618	0.09
BS-ML	0.02

==================
| Conduit Volume |
==================

Full pipe or full open conduit volume
Input full depth volume..... 5.3411E+05 cubic feet

==
| Table E3a - Junction Data |
==

Inp Num	Junction Name	Ground Elevation	Crown Elevation	Invert Elevation	Qinst cfs	Initial Depth-ft	Interface Flow (%)
1	E135-01	102.0800	102.0800	86.8500	0.0000	0.0000	100.0000
2	CN-J11	101.9400	101.9400	86.9100	0.0000	0.0000	100.0000
3	CN-J10	102.3400	102.3400	87.0950	0.0000	0.0000	100.0000
4	CN-J12	101.4900	101.4900	87.0750	0.0000	0.0000	100.0000
5	CN-J9	101.8500	101.8500	87.2450	0.0000	0.0000	100.0000
6	CN-J13	101.3100	101.3100	87.2750	0.0000	0.0000	100.0000
7	CN-J8	101.3800	101.3800	87.3950	0.0000	0.0000	100.0000
8	CN-7	100.8700	100.8700	87.5320	0.0000	0.0000	100.0000
9	CN-J15	101.1300	101.1300	88.2000	0.0000	0.0000	100.0000
10	CN-J7	102.3700	102.3700	87.8320	0.0000	0.0000	100.0000
11	CN-8	100.2700	100.2700	90.0000	0.0000	0.0000	100.0000
12	CS-J7	101.5100	101.5100	88.7300	0.0000	0.0000	100.0000
13	CN-6	101.3200	101.3200	88.1320	0.0000	0.0000	100.0000
14	CS-7	100.7100	100.7100	90.6900	0.0000	0.0000	100.0000
15	CS-8	100.8100	100.8100	89.1300	0.0000	0.0000	100.0000
16	CS-9	100.4600	100.4600	91.5300	0.0000	0.0000	100.0000
17	CN-J6	102.3200	102.3200	88.3820	0.0000	0.0000	100.0000
18	BW8-SW	102.6600	102.6600	90.9100	0.0000	0.0000	100.0000
19	CS-J6	101.4100	101.4100	90.8900	0.0000	0.0000	100.0000
20	BW8-SE	102.0800	102.0800	89.4100	0.0000	0.0000	100.0000
21	CN-5	101.4700	101.4700	88.7320	0.0000	0.0000	100.0000
22	CS-J5	102.4600	102.4600	91.3700	0.0000	0.0000	100.0000
23	CN-J5	102.8700	102.8700	89.1320	0.0000	0.0000	100.0000
24	CS-6	101.7600	101.7600	91.7700	0.0000	0.0000	100.0000
25	CN-J4	103.4200	103.4200	89.5320	0.0000	0.0000	100.0000
26	CS-J4	102.8100	102.8100	93.0700	0.0000	0.0000	100.0000
27	CN-4	101.4200	101.4200	89.9320	0.0000	0.0000	100.0000
28	CS-J3	103.8600	103.8600	93.3700	0.0000	0.0000	100.0000
29	CN-3	101.8200	101.8200	90.2520	0.0000	0.0000	100.0000
30	CS-5	103.1600	103.1600	93.7700	0.0000	0.0000	100.0000
31	CN-J3	103.2200	103.2200	90.5330	0.0000	0.0000	100.0000
32	CS-4	103.4600	103.4600	90.6140	0.0000	0.0000	100.0000
33	CN-J2	105.2200	105.2200	90.9330	0.0000	0.0000	100.0000
34	CS-J2	105.0300	105.0300	93.2900	0.0000	0.0000	100.0000
35	SNT01	104.7100	104.7100	81.5000	0.0000	0.0000	100.0000
36	ML-05	106.4600	106.4600	91.1220	0.0000	0.0000	100.0000
37	CN-2	104.6700	104.6700	91.3320	0.0000	0.0000	100.0000
38	CS-3	106.6100	106.6100	93.6400	0.0000	0.0000	100.0000
39	CN-J1	104.3400	104.3400	91.7700	0.0000	0.0000	100.0000
40	CS-2	105.5600	105.5600	93.9400	0.0000	0.0000	100.0000
41	CN-1	103.0000	103.0000	92.2090	0.0000	0.0000	100.0000
42	CS-J1	106.8100	106.8100	94.6900	0.0000	0.0000	100.0000
43	BN-8	105.5600	105.5600	92.5320	0.0000	0.0000	100.0000
44	CS-1	105.8300	105.8300	95.4400	0.0000	0.0000	100.0000
45	BN-J6	107.6100	107.6100	92.9320	0.0000	0.0000	100.0000
46	BN-7	106.2200	106.2200	93.6600	0.0000	0.0000	100.0000
47	BN-J5	107.4100	107.4100	93.6320	0.0000	0.0000	100.0000
48	BS-8	108.3000	108.3000	93.6510	0.0000	0.0000	100.0000
49	BN-6	106.2200	106.2200	93.9320	0.0000	0.0000	100.0000
50	BS-J4	108.9700	108.9700	93.8760	0.0000	0.0000	100.0000
51	POND-7B	108.3000	108.3000	94.5950	0.0000	0.0000	100.0000
52	BN-J4	107.6100	107.6100	94.3320	0.0000	0.0000	100.0000
53	BS-7	108.4500	108.4500	94.1010	0.0000	0.0000	100.0000
54	ML-04	108.9700	108.9700	94.3910	0.0000	0.0000	100.0000
55	BN-5	106.4700	106.4700	94.7320	0.0000	0.0000	100.0000
56	BS-6	108.4500	108.4500	94.5010	0.0000	0.0000	100.0000
57	BN-J3	106.9100	106.9100	94.9820	0.0000	0.0000	100.0000
58	BS-5	108.4500	108.4500	94.9010	0.0000	0.0000	100.0000
59	BN-4	106.1700	106.1700	95.2320	0.0000	0.0000	100.0000
60	BS-J3	108.9000	108.9000	95.1510	0.0000	0.0000	100.0000
61	BS-4	108.1500	108.1500	95.4010	0.0000	0.0000	100.0000
62	B-R2	108.9700	108.9700	94.2540	0.0000	0.0000	100.0000
63	POND-6A	102.5000	102.5000	91.0000	0.0000	0.0000	100.0000
64	BW8DET	102.5000	102.5000	87.7500	0.0000	0.0000	100.0000
65	ML-03	109.0400	100.2140	95.2140	0.0000	0.0000	100.0000

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| Table E3b - Junction Data |
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Inp Num	Junction Name	X Coord.	Y Coord.	Type of Manhole	Type of Inlet	Maximum Capacity	Pavement Shape	Pavement Slope
1	E135-01	3.060900E+06	13.88360E+06	F	Normal		0	0.0000
2	CN-J11	3.060900E+06	13.88350E+06	F	Normal		0	0.0000
3	CN-J10	3.060800E+06	13.88350E+06	F	Normal		0	0.0000
4	CN-J12	3.061000E+06	13.88340E+06	F	Normal		0	0.0000
5	CN-J9	3.060600E+06	13.88340E+06	F	Normal		0	0.0000
6	CN-J13	3.061000E+06	13.88320E+06	F	Normal		0	0.0000
7	CN-J8	3.060500E+06	13.88330E+06	F	Normal		0	0.0000
8	CN-7	3.060400E+06	13.88330E+06	F	Normal		0	0.0000
9	CN-J15	3.061000E+06	13.88300E+06	F	Normal		0	0.0000
10	CN-J7	3.060100E+06	13.88340E+06	F	Normal		0	0.0000
11	CN-8	3.061200E+06	13.88290E+06	F	Normal		0	0.0000
12	CS-J7	3.060700E+06	13.88260E+06	F	Normal		0	0.0000
13	CN-6	3.059800E+06	13.88360E+06	F	Normal		0	0.0000
14	CS-7	3.059700E+06	13.88309E+06	F	Normal		0	0.0000
15	CS-8	3.060300E+06	13.88270E+06	F	Normal		0	0.0000
16	CS-9	3.061000E+06	13.88250E+06	F	Normal		0	0.0000
17	CN-J6	3.059600E+06	13.88370E+06	F	Normal		0	0.0000
18	BW8-SW	3.059500E+06	13.88290E+06	F	Normal		0	0.0000
19	CS-J6	3.059500E+06	13.88320E+06	F	Normal		0	0.0000
20	BW8-SE	3.060000E+06	13.88260E+06	F	Normal		0	0.0000
21	CN-5	3.059300E+06	13.88380E+06	F	Normal		0	0.0000
22	CS-J5	3.059300E+06	13.88330E+06	F	Normal		0	0.0000
23	CN-J5	3.058900E+06	13.88400E+06	F	Normal		0	0.0000
24	CS-6	3.058900E+06	13.88350E+06	F	Normal		0	0.0000
25	CN-J4	3.058500E+06	13.88410E+06	F	Normal		0	0.0000
26	CS-J4	3.058600E+06	13.88360E+06	F	Normal		0	0.0000
27	CN-4	3.058200E+06	13.88430E+06	F	Normal		0	0.0000
28	CS-J3	3.058400E+06	13.88370E+06	F	Normal		0	0.0000

29	CN-3	3.057900E+06	13.88440E+06		F	Normal	0	0.0000
30	CS-5	3.058016E+06	13.88392E+06		F	Normal	0	0.0000
31	CN-J3	3.057600E+06	13.88450E+06		F	Normal	0	0.0000
32	CS-4	3.057800E+06	13.88410E+06		F	Normal	0	0.0000
33	CN-J2	3.057300E+06	13.88470E+06		F	Normal	0	0.0000
34	CS-J2	3.057400E+06	13.88420E+06		F	Normal	0	0.0000
35	SNT01	3.057904E+06	13.88387E+06		F	Normal	0	0.0000
36	ML-05	3.057600E+06	13.88360E+06		F	Normal	0	0.0000
37	CN-2	3.056900E+06	13.88490E+06		F	Normal	0	0.0000
38	CS-3	3.057100E+06	13.88440E+06		F	Normal	0	0.0000
39	CN-J1	3.056500E+06	13.88510E+06		F	Normal	0	0.0000
40	CS-2	3.056900E+06	13.88450E+06		F	Normal	0	0.0000
41	CN-1	3.056100E+06	13.88530E+06		F	Normal	0	0.0000
42	CS-J1	3.056600E+06	13.88460E+06		F	Normal	0	0.0000
43	BN-8	3.055900E+06	13.88550E+06		F	Normal	0	0.0000
44	CS-1	3.056400E+06	13.88470E+06		F	Normal	0	0.0000
45	BN-J6	3.055600E+06	13.88570E+06		F	Normal	0	0.0000
46	BN-7	3.055200E+06	13.88600E+06		F	Normal	0	0.0000
47	BN-J5	3.055000E+06	13.88610E+06		F	Normal	0	0.0000
48	BS-8	3.055000E+06	13.88580E+06		F	Normal	0	0.0000
49	BN-6	3.054800E+06	13.88630E+06		F	Normal	0	0.0000
50	BS-J4	3.054800E+06	13.88590E+06		F	Normal	0	0.0000
51	POND-7B	3.054582E+06	13.88557E+06		F	Normal	0	0.0000
52	BN-J4	3.054400E+06	13.88660E+06		F	Normal	0	0.0000
53	BS-7	3.054600E+06	13.88600E+06		F	Normal	0	0.0000
54	ML-04	3.054680E+06	13.88573E+06		F	Normal	0	0.0000
55	BN-5	3.054100E+06	13.88680E+06		F	Normal	0	0.0000
56	BS-6	3.054300E+06	13.88630E+06		F	Normal	0	0.0000
57	BN-J3	3.053900E+06	13.88690E+06		F	Normal	0	0.0000
58	BS-5	3.054000E+06	13.88650E+06		F	Normal	0	0.0000
59	BN-4	3.053700E+06	13.88710E+06		F	Normal	0	0.0000
60	BS-J3	3.053800E+06	13.88660E+06		F	Normal	0	0.0000
61	BS-4	3.053600E+06	13.88680E+06		F	Normal	0	0.0000
62	B-R2	3.054754E+06	13.88583E+06		F	Normal	0	0.0000
63	POND-6A	3.059541E+06	13.88307E+06		F	Normal	0	0.0000
64	BW8DET	3.061100E+06	13.88310E+06		F	Normal	0	0.0000
65	ML-03	3.054400E+06	13.88590E+06		No P	Normal	0	0.0000

Table E4 - Conduit Connectivity

Input Number	Conduit Name	Upstream Node	Downstream Node	Upstream Elevation	Downstream Elevation	
1	L_CN23	CN-J11	E135-01	87.2400	87.1900	No Design
2	L_CN17	CN-J10	CN-J11	87.4300	87.2400	No Design
3	L_CN18	CN-J12	CN-J11	87.4100	87.2400	No Design
4	L_CN16	CN-J9	CN-J10	87.5800	87.4300	No Design
5	L_CN19	CN-J13	CN-J12	87.6100	87.4100	No Design
6	L_CN15	CN-J8	CN-J9	87.7300	87.5800	No Design
7	L_CN14	CN-7	CN-J8	87.8600	87.7300	No Design
8	L_CN13	CN-J7	CN-7	88.1600	87.8600	No Design
9	L_CN22	CN-8	CN-J15	90.0000	89.7000	No Design
10	L_CS16	CS-J7	CN-J15	88.7300	88.2000	No Design
11	L_CN12	CN-6	CN-J7	88.4600	88.1600	No Design
12	L_CS13	CS-7	CN-J7	90.6900	90.1600	No Design
13	L_CS14	CS-8	CS-J7	89.1300	88.7300	No Design
14	L_CS15	CS-9	CS-J7	91.5300	91.2300	No Design
15	L_CN11	CN-J6	CN-6	88.7100	88.4600	No Design
16	L_OS3	BW8-SW	POND-6A	91.2000	91.0000	No Design
17	L_CS12	POND-6A	CS-7	91.0000	90.6900	No Design
18	L_OS4	BW8-SE	CS-8	89.4100	89.1300	No Design
19	L_CN10	CN-5	CN-J6	89.0600	88.7100	No Design
20	L_CS11	CS-J5	CS-J6	91.4500	91.1500	No Design
21	L_CN9	CN-J5	CN-5	89.4600	89.0600	No Design
22	L_CS10	CS-6	CS-J5	91.8500	91.4500	No Design
23	L_CN8	CN-J4	CN-J5	89.8600	89.4600	No Design
24	L_CS9	CS-J4	CS-6	93.1500	92.8500	No Design
25	L_CN7	CN-4	CN-J4	90.2600	89.8600	No Design
26	L_CS8	CS-J3	CS-J4	93.4500	93.1500	No Design
27	L_CN6	CN-3	CN-4	90.5800	90.2600	No Design
28	L_CS7	CS-5	CS-J3	93.8500	93.4500	No Design
29	L_CN5	CN-J3	CN-3	90.8600	90.5800	No Design
30	L_CS6	CS-4	CN-3	92.9400	92.5800	No Design
31	L_CN4	CN-J2	CN-J3	91.2600	90.8600	No Design
32	L_CS5	CS-J2	CS-4	93.2900	92.9400	No Design
33	L_OS2	ML-05	CS-4	93.4500	92.9400	No Design
34	L_CN3	CN-2	CN-J2	91.6600	91.2600	No Design
35	L_CS4	CS-3	CS-J2	93.6400	93.2900	No Design
36	L_CN2	CN-J1	CN-2	92.1000	91.6600	No Design
37	L_CS3	CS-2	CS-3	93.9400	93.6400	No Design
38	L_CN1	CN-1	CN-J1	92.5400	92.1000	No Design
39	L_CS2	CS-J1	CS-2	94.6900	94.4400	No Design
40	L_BN13	BN-8	CN-1	92.8600	92.5400	No Design
41	L_CS1	CS-1	CS-J1	95.4400	95.1900	No Design
42	L_BN12	BN-J6	BN-8	93.2600	92.8600	No Design
43	L_BN11	BN-7	BN-J6	93.6600	93.2600	No Design
44	L_BN10	BN-J5	BN-7	93.9600	93.6600	No Design
45	L_BS12	BS-8	BN-7	93.9800	93.6600	No Design
46	L_BN9	BN-6	BN-J5	94.2600	93.9600	No Design
47	L_BS10	BS-J4	BS-8	94.2100	93.9800	No Design
48	L_BS14	ML-04	B-R2	94.3910	94.2540	No Design
49	L_BN8	BN-J4	BN-6	94.6600	94.2600	No Design
50	L_BS9	BS-7	BS-J4	94.4300	94.2100	No Design
51	L_BS13	POND-7B	ML-04	94.5950	94.3910	No Design
52	L_BN7	BN-5	BN-J4	95.0600	94.6600	No Design
53	L_BS8	BS-6	BS-7	94.8300	94.4300	No Design
54	L_BN6	BN-J3	BN-5	95.3100	95.0600	No Design
55	L_BS7	BS-5	BS-6	95.2300	94.8300	No Design
56	L_BN5	BN-4	BN-J3	95.5600	95.3100	No Design
57	L_BS6	BS-J3	BS-5	95.4800	95.2300	No Design
58	L_BS5	BS-4	BS-J3	95.7300	95.4800	No Design
59	Link615	B-R2	BS-J4	94.2540	94.2100	No Design
60	Link616	CS-J6	POND-6A	91.1500	91.0000	No Design
61	Link617	CN-J15	BW8DET	88.2000	88.0000	No Design
62	Link618	BW8DET	CN-J13	87.7500	87.6100	No Design
63	BS-ML	ML-03	ML-04	95.2140	94.3910	No Design

Storage Junction Data

STORAGE JUNCTION NUMBER OR NAME	JUNCTION TYPE	MAXIMUM OR CONSTANT SURFACE AREA (FT2)	PEAK OR CONSTANT VOLUME (CUBIC FEET)	CROWN ELEVATION (FT)	DEPTH STARTS FROM
CN-7	Stage/Area	16727.0400	213333.5533	100.8700	Node Invert
CN-8	Stage/Area	16727.0400	162014.9946	100.2700	Spill Crest
CN-6	Stage/Area	16727.0400	210824.4973	101.3200	Node Invert
CS-7	Stage/Area	16727.0400	157833.2346	100.7100	Spill Crest
CS-8	Stage/Area	16727.0400	185600.1210	100.8100	Spill Crest
CS-9	Stage/Area	16727.0400	139600.7610	100.4600	Spill Crest
CN-5	Stage/Area	16727.0400	203297.3293	101.4700	Spill Crest
CS-6	Stage/Area	16727.0400	157331.4234	101.7600	Spill Crest
CN-4	Stage/Area	16727.0400	182388.5293	101.4200	Spill Crest

CN-3	Stage/Area	16727.0400	183726.6925	101.8200	Spill Crest
CS-5	Stage/Area	16727.0400	147295.1994	103.1600	Spill Crest
CS-4	Stage/Area	16727.0400	205103.8496	103.4600	Spill Crest
SNT01	Constant	15000.0000	348150.0000	104.7100	Node Invert
CN-2	Stage/Area	16727.0400	213333.5533	104.6700	Node Invert
CS-3	Stage/Area	16727.0400	207178.0026	106.6100	Spill Crest
CS-2	Stage/Area	16727.0400	184596.4986	105.5600	Spill Crest
CN-1	Stage/Area	16727.0400	170729.7824	103.0000	Node Invert
BN-8	Stage/Area	16727.0400	208148.1709	105.5600	Spill Crest
CS-1	Stage/Area	16727.0400	164022.2394	105.8300	Spill Crest
BN-7	Stage/Area	16727.0400	200319.9162	106.2200	Node Invert
BS-8	Stage/Area	16727.0400	235262.7028	108.3000	Node Invert
BN-6	Stage/Area	16727.0400	195770.1613	106.2200	Node Invert
POND-7B	Stage/Area	388555.2000	4.505629E+06	108.3000	Node Invert
BS-7	Stage/Area	16727.0400	230244.5908	108.4500	Node Invert
BN-5	Stage/Area	16727.0400	186570.2893	106.4700	Node Invert
BS-6	Stage/Area	16727.0400	223553.7748	108.4500	Node Invert
BS-5	Stage/Area	16727.0400	216862.9588	108.4500	Spill Crest
BN-4	Stage/Area	16727.0400	173188.6573	106.1700	Node Invert
BS-4	Stage/Area	16727.0400	203481.3268	108.1500	Spill Crest
POND-6A	Stage/Area	412948.8000	4.025092E+06	102.5000	Node Invert
BW8DET	Stage/Area	45302.4000	400735.5877	102.5000	Node Invert

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| Variable storage data for node | CN-7
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	87.5320	0.0000	4.3560	0.0000	0.0001	0.0000
2	87.5570	0.0250	150.8265	1.5068	0.0035	0.0000
3	87.5820	0.0500	297.2970	7.0058	0.0068	0.0002
4	87.6070	0.0750	443.7675	16.2082	0.0102	0.0004
5	87.6320	0.1000	590.2380	29.0898	0.0135	0.0007
6	87.6570	0.1250	736.7085	45.6428	0.0169	0.0010
7	87.6820	0.1500	883.1790	65.8638	0.0203	0.0015
8	87.7070	0.1750	1029.6495	89.7507	0.0236	0.0021
9	87.7320	0.2000	1176.1200	117.3026	0.0270	0.0027
10	87.7570	0.2250	1475.5950	150.3783	0.0339	0.0035
11	87.7820	0.2500	1775.0700	190.9540	0.0408	0.0044
12	87.8070	0.2750	2074.5450	239.0256	0.0476	0.0055
13	87.8320	0.3000	2374.0200	294.5906	0.0545	0.0068
14	87.8570	0.3250	2673.4950	357.6475	0.0614	0.0082
15	87.8820	0.3500	2972.9700	428.1952	0.0683	0.0098
16	87.9070	0.3750	3272.4450	506.2330	0.0751	0.0116
17	87.9320	0.4000	3571.9200	591.7602	0.0820	0.0136
18	87.9445	0.4125	3773.3850	637.6626	0.0866	0.0146
19	87.9570	0.4250	3974.8500	686.0836	0.0912	0.0158
20	87.9695	0.4375	4176.3150	737.0232	0.0959	0.0169
21	87.9820	0.4500	4377.7800	790.4814	0.1005	0.0181
22	87.9945	0.4625	4579.2450	846.4581	0.1051	0.0194
23	88.0070	0.4750	4780.7100	904.9533	0.1098	0.0208
24	88.0195	0.4875	4982.1750	965.9670	0.1144	0.0222
25	88.0320	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	88.0445	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	88.0570	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	88.0695	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	88.0820	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	88.0945	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	88.1070	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	88.1195	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	88.1320	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	88.1445	0.6125	7900.6950	1761.8875	0.1814	0.0404
35	88.1570	0.6250	8265.5100	1862.9177	0.1897	0.0428
36	88.1695	0.6375	8630.3250	1968.5084	0.1981	0.0452
37	88.1820	0.6500	8995.1400	2078.6597	0.2065	0.0477
38	88.1945	0.6625	9359.9550	2193.3715	0.2149	0.0504
39	88.2070	0.6750	9724.7700	2312.6438	0.2233	0.0531
40	88.2195	0.6875	10089.5850	2436.4765	0.2316	0.0559
41	88.2320	0.7000	10454.4000	2564.8697	0.2400	0.0589
42	88.2570	0.7250	11238.4800	2835.9716	0.2580	0.0651
43	88.2820	0.7500	12022.5600	3126.6795	0.2760	0.0718
44	88.3070	0.7750	12806.6400	3436.9929	0.2940	0.0789
45	88.3320	0.8000	13590.7200	3766.9114	0.3120	0.0865
46	88.3570	0.8250	14374.8000	4116.4346	0.3300	0.0945
47	88.3820	0.8500	15158.8800	4485.5622	0.3480	0.1030
48	88.4070	0.8750	15942.9600	4874.2940	0.3660	0.1119
49	88.4320	0.9000	16727.0400	5282.6298	0.3840	0.1213
50	100.8700	13.3380	16727.0400	213333.5533	0.3840	4.8975

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| Variable storage data for node | CN-8
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	90.0000	0.0000	4.3560	0.0000	0.0001	0.0000
2	90.0250	0.0250	150.8265	1.5068	0.0035	0.0000
3	90.0500	0.0500	297.2970	7.0058	0.0068	0.0002
4	90.0750	0.0750	443.7675	16.2082	0.0102	0.0004
5	90.1000	0.1000	590.2380	29.0898	0.0135	0.0007
6	90.1250	0.1250	736.7085	45.6428	0.0169	0.0010
7	90.1500	0.1500	883.1790	65.8638	0.0203	0.0015
8	90.1750	0.1750	1029.6495	89.7507	0.0236	0.0021
9	90.2000	0.2000	1176.1200	117.3026	0.0270	0.0027
10	90.2250	0.2250	1475.5950	150.3783	0.0339	0.0035
11	90.2500	0.2500	1775.0700	190.9540	0.0408	0.0044
12	90.2750	0.2750	2074.5450	239.0256	0.0476	0.0055
13	90.3000	0.3000	2374.0200	294.5906	0.0545	0.0068
14	90.3250	0.3250	2673.4950	357.6475	0.0614	0.0082
15	90.3500	0.3500	2972.9700	428.1952	0.0683	0.0098
16	90.3750	0.3750	3272.4450	506.2330	0.0751	0.0116
17	90.4000	0.4000	3571.9200	591.7602	0.0820	0.0136
18	90.4125	0.4125	3773.3850	637.6626	0.0866	0.0146
19	90.4250	0.4250	3974.8500	686.0836	0.0912	0.0158
20	90.4375	0.4375	4176.3150	737.0232	0.0959	0.0169
21	90.4500	0.4500	4377.7800	790.4814	0.1005	0.0181
22	90.4625	0.4625	4579.2450	846.4581	0.1051	0.0194
23	90.4750	0.4750	4780.7100	904.9533	0.1098	0.0208
24	90.4875	0.4875	4982.1750	965.9670	0.1144	0.0222
25	90.5000	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	90.5125	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	90.5250	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	90.5375	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	90.5500	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	90.5625	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	90.5750	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	90.5875	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	90.6000	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	90.6125	0.6125	7900.6950	1761.8875	0.1814	0.0404
35	90.6250	0.6250	8265.5100	1862.9177	0.1897	0.0428
36	90.6375	0.6375	8630.3250	1968.5084	0.1981	0.0452
37	90.6500	0.6500	8995.1400	2078.6597	0.2065	0.0477
38	90.6625	0.6625	9359.9550	2193.3715	0.2149	0.0504
39	90.6750	0.6750	9724.7700	2312.6438	0.2233	0.0531
40	90.6875	0.6875	10089.5850	2436.4765	0.2316	0.0559
41	90.7000	0.7000	10454.4000	2564.8697	0.2400	0.0589
42	90.7250	0.7250	11238.4800	2835.9716	0.2580	0.0651

43	90.7500	0.7500	12022.5600	3126.6795	0.2760	0.0718
44	90.7750	0.7750	12806.6400	3436.9929	0.2940	0.0789
45	90.8000	0.8000	13590.7200	3766.9114	0.3120	0.0865
46	90.8250	0.8250	14374.8000	4116.4346	0.3300	0.0945
47	90.8500	0.8500	15158.8800	4485.5622	0.3480	0.1030
48	90.8750	0.8750	15942.9600	4874.2940	0.3660	0.1119
49	90.9000	0.9000	16727.0400	5282.6298	0.3840	0.1213
50	100.2700	10.2700	16727.0400	162014.9946	0.3840	3.7194

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| Variable storage data for node | CN-6
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	88.1320	0.0000	4.3560	0.0000	0.0001	0.0000
2	88.1570	0.0250	150.8265	1.5068	0.0035	0.0000
3	88.1820	0.0500	297.2970	7.0058	0.0068	0.0002
4	88.2070	0.0750	443.7675	16.2082	0.0102	0.0004
5	88.2320	0.1000	590.2380	29.0898	0.0135	0.0007
6	88.2570	0.1250	736.7085	45.6428	0.0169	0.0010
7	88.2820	0.1500	883.1790	65.8638	0.0203	0.0015
8	88.3070	0.1750	1029.6495	89.7507	0.0236	0.0021
9	88.3320	0.2000	1176.1200	117.3026	0.0270	0.0027
10	88.3570	0.2250	1475.5950	150.3783	0.0339	0.0035
11	88.3820	0.2500	1775.0700	190.9540	0.0408	0.0044
12	88.4070	0.2750	2074.5450	239.0256	0.0476	0.0055
13	88.4320	0.3000	2374.0200	294.5906	0.0545	0.0068
14	88.4570	0.3250	2673.4950	357.6475	0.0614	0.0082
15	88.4820	0.3500	2972.9700	428.1952	0.0683	0.0098
16	88.5070	0.3750	3272.4450	506.2330	0.0751	0.0116
17	88.5320	0.4000	3571.9200	591.7602	0.0820	0.0136
18	88.5445	0.4125	3773.3850	637.6626	0.0866	0.0146
19	88.5570	0.4250	3974.8500	686.0836	0.0912	0.0158
20	88.5695	0.4375	4176.3150	737.0232	0.0959	0.0169
21	88.5820	0.4500	4377.7800	790.4814	0.1005	0.0181
22	88.5945	0.4625	4579.2450	846.4581	0.1051	0.0194
23	88.6070	0.4750	4780.7100	904.9533	0.1098	0.0208
24	88.6195	0.4875	4982.1750	965.9670	0.1144	0.0222
25	88.6320	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	88.6445	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	88.6570	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	88.6695	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	88.6820	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	88.6945	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	88.7070	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	88.7195	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	88.7320	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	88.7445	0.6125	7900.6950	1761.8875	0.1814	0.0404
35	88.7570	0.6250	8265.5100	1862.9177	0.1897	0.0428
36	88.7695	0.6375	8630.3250	1968.5084	0.1981	0.0452
37	88.7820	0.6500	8995.1400	2078.6597	0.2065	0.0477
38	88.7945	0.6625	9359.9550	2193.3715	0.2149	0.0504
39	88.8070	0.6750	9724.7700	2312.6438	0.2233	0.0531
40	88.8195	0.6875	10089.5850	2436.4765	0.2316	0.0559
41	88.8320	0.7000	10454.4000	2564.8697	0.2400	0.0589
42	88.8570	0.7250	11238.4800	2835.9716	0.2580	0.0651
43	88.8820	0.7500	12022.5600	3126.6795	0.2760	0.0718
44	88.9070	0.7750	12806.6400	3436.9929	0.2940	0.0789
45	88.9320	0.8000	13590.7200	3766.9114	0.3120	0.0865
46	88.9570	0.8250	14374.8000	4116.4346	0.3300	0.0945
47	88.9820	0.8500	15158.8800	4485.5622	0.3480	0.1030
48	89.0070	0.8750	15942.9600	4874.2940	0.3660	0.1119
49	89.0320	0.9000	16727.0400	5282.6298	0.3840	0.1213
50	101.3200	13.1880	16727.0400	210824.4973	0.3840	4.8399

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| Variable storage data for node | CS-7
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	90.6900	0.0000	4.3560	0.0000	0.0001	0.0000
2	90.7150	0.0250	150.8265	1.5068	0.0035	0.0000
3	90.7400	0.0500	297.2970	7.0058	0.0068	0.0002
4	90.7650	0.0750	443.7675	16.2082	0.0102	0.0004
5	90.7900	0.1000	590.2380	29.0898	0.0135	0.0007
6	90.8150	0.1250	736.7085	45.6428	0.0169	0.0010
7	90.8400	0.1500	883.1790	65.8638	0.0203	0.0015
8	90.8650	0.1750	1029.6495	89.7507	0.0236	0.0021
9	90.8900	0.2000	1176.1200	117.3026	0.0270	0.0027
10	90.9150	0.2250	1475.5950	150.3783	0.0339	0.0035
11	90.9400	0.2500	1775.0700	190.9540	0.0408	0.0044
12	90.9650	0.2750	2074.5450	239.0256	0.0476	0.0055
13	90.9900	0.3000	2374.0200	294.5906	0.0545	0.0068
14	91.0150	0.3250	2673.4950	357.6475	0.0614	0.0082
15	91.0400	0.3500	2972.9700	428.1952	0.0683	0.0098
16	91.0650	0.3750	3272.4450	506.2330	0.0751	0.0116
17	91.0900	0.4000	3571.9200	591.7602	0.0820	0.0136
18	91.1025	0.4125	3773.3850	637.6626	0.0866	0.0146
19	91.1150	0.4250	3974.8500	686.0836	0.0912	0.0158
20	91.1275	0.4375	4176.3150	737.0232	0.0959	0.0169
21	91.1400	0.4500	4377.7800	790.4814	0.1005	0.0181
22	91.1525	0.4625	4579.2450	846.4581	0.1051	0.0194
23	91.1650	0.4750	4780.7100	904.9533	0.1098	0.0208
24	91.1775	0.4875	4982.1750	965.9670	0.1144	0.0222
25	91.1900	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	91.2025	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	91.2150	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	91.2275	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	91.2400	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	91.2525	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	91.2650	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	91.2775	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	91.2900	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	91.3025	0.6125	7900.6950	1761.8875	0.1814	0.0404
35	91.3150	0.6250	8265.5100	1862.9177	0.1897	0.0428
36	91.3275	0.6375	8630.3250	1968.5084	0.1981	0.0452
37	91.3400	0.6500	8995.1400	2078.6597	0.2065	0.0477
38	91.3525	0.6625	9359.9550	2193.3715	0.2149	0.0504
39	91.3650	0.6750	9724.7700	2312.6438	0.2233	0.0531
40	91.3775	0.6875	10089.5850	2436.4765	0.2316	0.0559
41	91.3900	0.7000	10454.4000	2564.8697	0.2400	0.0589
42	91.4150	0.7250	11238.4800	2835.9716	0.2580	0.0651
43	91.4400	0.7500	12022.5600	3126.6795	0.2760	0.0718
44	91.4650	0.7750	12806.6400	3436.9929	0.2940	0.0789
45	91.4900	0.8000	13590.7200	3766.9114	0.3120	0.0865
46	91.5150	0.8250	14374.8000	4116.4346	0.3300	0.0945
47	91.5400	0.8500	15158.8800	4485.5622	0.3480	0.1030
48	91.5650	0.8750	15942.9600	4874.2940	0.3660	0.1119
49	91.5900	0.9000	16727.0400	5282.6298	0.3840	0.1213
50	100.7100	10.0200	16727.0400	157833.2346	0.3840	3.6234

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| Variable storage data for node | CS-8
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft

Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	89.1300	0.0000	4.3560	0.0000	0.0001	0.0000
2	89.1550	0.0250	150.8265	1.5068	0.0035	0.0000
3	89.1800	0.0500	297.2970	7.0058	0.0068	0.0002
4	89.2050	0.0750	443.7675	16.2082	0.0102	0.0004
5	89.2300	0.1000	590.2380	29.0898	0.0135	0.0007
6	89.2550	0.1250	736.7085	45.6428	0.0169	0.0010
7	89.2800	0.1500	883.1790	65.8638	0.0203	0.0015
8	89.3050	0.1750	1029.6495	89.7507	0.0236	0.0021
9	89.3300	0.2000	1176.1200	117.3026	0.0270	0.0027
10	89.3550	0.2250	1475.5950	150.3783	0.0339	0.0035
11	89.3800	0.2500	1775.0700	190.9540	0.0408	0.0044
12	89.4050	0.2750	2074.5450	239.0256	0.0476	0.0055
13	89.4300	0.3000	2374.0200	294.5906	0.0545	0.0068
14	89.4550	0.3250	2673.4950	357.6475	0.0614	0.0082
15	89.4800	0.3500	2972.9700	428.1952	0.0683	0.0098
16	89.5050	0.3750	3272.4450	506.2330	0.0751	0.0116
17	89.5300	0.4000	3571.9200	591.7602	0.0820	0.0136
18	89.5425	0.4125	3773.3850	637.6626	0.0866	0.0146
19	89.5550	0.4250	3974.8500	686.0836	0.0912	0.0158
20	89.5675	0.4375	4176.3150	737.0232	0.0959	0.0169
21	89.5800	0.4500	4377.7800	790.4814	0.1005	0.0181
22	89.5925	0.4625	4579.2450	846.4581	0.1051	0.0194
23	89.6050	0.4750	4780.7100	904.9533	0.1098	0.0208
24	89.6175	0.4875	4982.1750	965.9670	0.1144	0.0222
25	89.6300	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	89.6425	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	89.6550	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	89.6675	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	89.6800	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	89.6925	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	89.7050	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	89.7175	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	89.7300	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	89.7425	0.6125	7900.6950	1761.8875	0.1814	0.0404
35	89.7550	0.6250	8265.5100	1862.9177	0.1897	0.0428
36	89.7675	0.6375	8630.3250	1968.5084	0.1981	0.0452
37	89.7800	0.6500	8995.1400	2078.6597	0.2065	0.0477
38	89.7925	0.6625	9359.9550	2193.3715	0.2149	0.0504
39	89.8050	0.6750	9724.7700	2312.6438	0.2233	0.0531
40	89.8175	0.6875	10089.5850	2436.4765	0.2316	0.0559
41	89.8300	0.7000	10454.4000	2564.8697	0.2400	0.0589
42	89.8550	0.7250	11238.4800	2835.9716	0.2580	0.0651
43	89.8800	0.7500	12022.5600	3126.6795	0.2760	0.0718
44	89.9050	0.7750	12806.6400	3436.9929	0.2940	0.0789
45	89.9300	0.8000	13590.7200	3766.9114	0.3120	0.0865
46	89.9550	0.8250	14374.8000	4116.4346	0.3300	0.0945
47	89.9800	0.8500	15158.8800	4485.5622	0.3480	0.1030
48	90.0050	0.8750	15942.9600	4874.2940	0.3660	0.1119
49	90.0300	0.9000	16727.0400	5282.6298	0.3840	0.1213
50	100.8100	11.6800	16727.0400	185600.1210	0.3840	4.2608

Variable storage data for node | CS-9						
Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	91.5300	0.0000	4.3560	0.0000	0.0001	0.0000
2	91.5550	0.0250	150.8265	1.5068	0.0035	0.0000
3	91.5800	0.0500	297.2970	7.0058	0.0068	0.0002
4	91.6050	0.0750	443.7675	16.2082	0.0102	0.0004
5	91.6300	0.1000	590.2380	29.0898	0.0135	0.0007
6	91.6550	0.1250	736.7085	45.6428	0.0169	0.0010
7	91.6800	0.1500	883.1790	65.8638	0.0203	0.0015
8	91.7050	0.1750	1029.6495	89.7507	0.0236	0.0021
9	91.7300	0.2000	1176.1200	117.3026	0.0270	0.0027
10	91.7550	0.2250	1475.5950	150.3783	0.0339	0.0035
11	91.7800	0.2500	1775.0700	190.9540	0.0408	0.0044
12	91.8050	0.2750	2074.5450	239.0256	0.0476	0.0055
13	91.8300	0.3000	2374.0200	294.5906	0.0545	0.0068
14	91.8550	0.3250	2673.4950	357.6475	0.0614	0.0082
15	91.8800	0.3500	2972.9700	428.1952	0.0683	0.0098
16	91.9050	0.3750	3272.4450	506.2330	0.0751	0.0116
17	91.9300	0.4000	3571.9200	591.7602	0.0820	0.0136
18	91.9425	0.4125	3773.3850	637.6626	0.0866	0.0146
19	91.9550	0.4250	3974.8500	686.0836	0.0912	0.0158
20	91.9675	0.4375	4176.3150	737.0232	0.0959	0.0169
21	91.9800	0.4500	4377.7800	790.4814	0.1005	0.0181
22	91.9925	0.4625	4579.2450	846.4581	0.1051	0.0194
23	92.0050	0.4750	4780.7100	904.9533	0.1098	0.0208
24	92.0175	0.4875	4982.1750	965.9670	0.1144	0.0222
25	92.0300	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	92.0425	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	92.0550	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	92.0675	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	92.0800	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	92.0925	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	92.1050	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	92.1175	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	92.1300	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	92.1425	0.6125	7900.6950	1761.8875	0.1814	0.0404
35	92.1550	0.6250	8265.5100	1862.9177	0.1897	0.0428
36	92.1675	0.6375	8630.3250	1968.5084	0.1981	0.0452
37	92.1800	0.6500	8995.1400	2078.6597	0.2065	0.0477
38	92.1925	0.6625	9359.9550	2193.3715	0.2149	0.0504
39	92.2050	0.6750	9724.7700	2312.6438	0.2233	0.0531
40	92.2175	0.6875	10089.5850	2436.4765	0.2316	0.0559
41	92.2300	0.7000	10454.4000	2564.8697	0.2400	0.0589
42	92.2550	0.7250	11238.4800	2835.9716	0.2580	0.0651
43	92.2800	0.7500	12022.5600	3126.6795	0.2760	0.0718
44	92.3050	0.7750	12806.6400	3436.9929	0.2940	0.0789
45	92.3300	0.8000	13590.7200	3766.9114	0.3120	0.0865
46	92.3550	0.8250	14374.8000	4116.4346	0.3300	0.0945
47	92.3800	0.8500	15158.8800	4485.5622	0.3480	0.1030
48	92.4050	0.8750	15942.9600	4874.2940	0.3660	0.1119
49	92.4300	0.9000	16727.0400	5282.6298	0.3840	0.1213
50	100.4600	8.9300	16727.0400	139600.7610	0.3840	3.2048

Variable storage data for node | CN-5						
Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	88.7320	0.0000	4.3560	0.0000	0.0001	0.0000
2	88.7570	0.0250	150.8265	1.5068	0.0035	0.0000
3	88.7820	0.0500	297.2970	7.0058	0.0068	0.0002
4	88.8070	0.0750	443.7675	16.2082	0.0102	0.0004
5	88.8320	0.1000	590.2380	29.0898	0.0135	0.0007
6	88.8570	0.1250	736.7085	45.6428	0.0169	0.0010
7	88.8820	0.1500	883.1790	65.8638	0.0203	0.0015
8	88.9070	0.1750	1029.6495	89.7507	0.0236	0.0021
9	88.9320	0.2000	1176.1200	117.3026	0.0270	0.0027
10	88.9570	0.2250	1475.5950	150.3783	0.0339	0.0035
11	88.9820	0.2500	1775.0700	190.9540	0.0408	0.0044
12	89.0070	0.2750	2074.5450	239.0256	0.0476	0.0055
13	89.0320	0.3000	2374.0200	294.5906	0.0545	0.0068

14	89.0570	0.3250	2673.4950	357.6475	0.0614	0.0082
15	89.0820	0.3500	2972.9700	428.1952	0.0683	0.0098
16	89.1070	0.3750	3272.4450	506.2330	0.0751	0.0116
17	89.1320	0.4000	3571.9200	591.7602	0.0820	0.0136
18	89.1445	0.4125	3773.3850	637.6626	0.0866	0.0146
19	89.1570	0.4250	3974.8500	686.0836	0.0912	0.0158
20	89.1695	0.4375	4176.3150	737.0232	0.0959	0.0169
21	89.1820	0.4500	4377.7800	790.4814	0.1005	0.0181
22	89.1945	0.4625	4579.2450	846.4581	0.1051	0.0194
23	89.2070	0.4750	4780.7100	904.9533	0.1098	0.0208
24	89.2195	0.4875	4982.1750	965.9670	0.1144	0.0222
25	89.2320	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	89.2445	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	89.2570	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	89.2695	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	89.2820	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	89.2945	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	89.3070	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	89.3195	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	89.3320	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	89.3445	0.6125	7900.6950	1761.8875	0.1814	0.0404
35	89.3570	0.6250	8265.5100	1862.9177	0.1897	0.0428
36	89.3695	0.6375	8630.3250	1968.5084	0.1981	0.0452
37	89.3820	0.6500	8995.1400	2078.6597	0.2065	0.0477
38	89.3945	0.6625	9359.9550	2193.3715	0.2149	0.0504
39	89.4070	0.6750	9724.7700	2312.6438	0.2233	0.0531
40	89.4195	0.6875	10089.5850	2436.4765	0.2316	0.0559
41	89.4320	0.7000	10454.4000	2564.8697	0.2400	0.0589
42	89.4570	0.7250	11238.4800	2835.9716	0.2580	0.0651
43	89.4820	0.7500	12022.5600	3126.6795	0.2760	0.0718
44	89.5070	0.7750	12806.6400	3436.9929	0.2940	0.0789
45	89.5320	0.8000	13590.7200	3766.9114	0.3120	0.0865
46	89.5570	0.8250	14374.8000	4116.4346	0.3300	0.0945
47	89.5820	0.8500	15158.8800	4485.5622	0.3480	0.1030
48	89.6070	0.8750	15942.9600	4874.2940	0.3660	0.1119
49	89.6320	0.9000	16727.0400	5282.6298	0.3840	0.1213
50	101.4700	12.7380	16727.0400	203297.3293	0.3840	4.6671

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| Variable storage data for node | CS-6
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	91.7700	0.0000	4.3560	0.0000	0.0001	0.0000
2	91.7950	0.0250	150.8265	1.5068	0.0035	0.0000
3	91.8200	0.0500	297.2970	7.0058	0.0068	0.0002
4	91.8450	0.0750	443.7675	16.2082	0.0102	0.0004
5	91.8700	0.1000	590.2380	29.0898	0.0135	0.0007
6	91.8950	0.1250	736.7085	45.6428	0.0169	0.0010
7	91.9200	0.1500	883.1790	65.8638	0.0203	0.0015
8	91.9450	0.1750	1029.6495	89.7507	0.0236	0.0021
9	91.9700	0.2000	1176.1200	117.3026	0.0270	0.0027
10	91.9950	0.2250	1475.5950	150.3783	0.0339	0.0035
11	92.0200	0.2500	1775.0700	190.9540	0.0408	0.0044
12	92.0450	0.2750	2074.5450	239.0256	0.0476	0.0055
13	92.0700	0.3000	2374.0200	294.5906	0.0545	0.0068
14	92.0950	0.3250	2673.4950	357.6475	0.0614	0.0082
15	92.1200	0.3500	2972.9700	428.1952	0.0683	0.0098
16	92.1450	0.3750	3272.4450	506.2330	0.0751	0.0116
17	92.1700	0.4000	3571.9200	591.7602	0.0820	0.0136
18	92.1825	0.4125	3773.3850	637.6626	0.0866	0.0146
19	92.1950	0.4250	3974.8500	686.0836	0.0912	0.0158
20	92.2075	0.4375	4176.3150	737.0232	0.0959	0.0169
21	92.2200	0.4500	4377.7800	790.4814	0.1005	0.0181
22	92.2325	0.4625	4579.2450	846.4581	0.1051	0.0194
23	92.2450	0.4750	4780.7100	904.9533	0.1098	0.0208
24	92.2575	0.4875	4982.1750	965.9670	0.1144	0.0222
25	92.2700	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	92.2825	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	92.2950	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	92.3075	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	92.3200	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	92.3325	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	92.3450	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	92.3575	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	92.3700	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	92.3825	0.6125	7900.6950	1761.8875	0.1814	0.0404
35	92.3950	0.6250	8265.5100	1862.9177	0.1897	0.0428
36	92.4075	0.6375	8630.3250	1968.5084	0.1981	0.0452
37	92.4200	0.6500	8995.1400	2078.6597	0.2065	0.0477
38	92.4325	0.6625	9359.9550	2193.3715	0.2149	0.0504
39	92.4450	0.6750	9724.7700	2312.6438	0.2233	0.0531
40	92.4575	0.6875	10089.5850	2436.4765	0.2316	0.0559
41	92.4700	0.7000	10454.4000	2564.8697	0.2400	0.0589
42	92.4950	0.7250	11238.4800	2835.9716	0.2580	0.0651
43	92.5200	0.7500	12022.5600	3126.6795	0.2760	0.0718
44	92.5450	0.7750	12806.6400	3436.9929	0.2940	0.0789
45	92.5700	0.8000	13590.7200	3766.9114	0.3120	0.0865
46	92.5950	0.8250	14374.8000	4116.4346	0.3300	0.0945
47	92.6200	0.8500	15158.8800	4485.5622	0.3480	0.1030
48	92.6450	0.8750	15942.9600	4874.2940	0.3660	0.1119
49	92.6700	0.9000	16727.0400	5282.6298	0.3840	0.1213
50	101.7600	9.9900	16727.0400	157331.4234	0.3840	3.6118

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| Variable storage data for node | CN-4
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	89.9320	0.0000	4.3560	0.0000	0.0001	0.0000
2	89.9570	0.0250	150.8265	1.5068	0.0035	0.0000
3	89.9820	0.0500	297.2970	7.0058	0.0068	0.0002
4	90.0070	0.0750	443.7675	16.2082	0.0102	0.0004
5	90.0320	0.1000	590.2380	29.0898	0.0135	0.0007
6	90.0570	0.1250	736.7085	45.6428	0.0169	0.0010
7	90.0820	0.1500	883.1790	65.8638	0.0203	0.0015
8	90.1070	0.1750	1029.6495	89.7507	0.0236	0.0021
9	90.1320	0.2000	1176.1200	117.3026	0.0270	0.0027
10	90.1570	0.2250	1475.5950	150.3783	0.0339	0.0035
11	90.1820	0.2500	1775.0700	190.9540	0.0408	0.0044
12	90.2070	0.2750	2074.5450	239.0256	0.0476	0.0055
13	90.2320	0.3000	2374.0200	294.5906	0.0545	0.0068
14	90.2570	0.3250	2673.4950	357.6475	0.0614	0.0082
15	90.2820	0.3500	2972.9700	428.1952	0.0683	0.0098
16	90.3070	0.3750	3272.4450	506.2330	0.0751	0.0116
17	90.3320	0.4000	3571.9200	591.7602	0.0820	0.0136
18	90.3445	0.4125	3773.3850	637.6626	0.0866	0.0146
19	90.3570	0.4250	3974.8500	686.0836	0.0912	0.0158
20	90.3695	0.4375	4176.3150	737.0232	0.0959	0.0169
21	90.3820	0.4500	4377.7800	790.4814	0.1005	0.0181
22	90.3945	0.4625	4579.2450	846.4581	0.1051	0.0194
23	90.4070	0.4750	4780.7100	904.9533	0.1098	0.0208
24	90.4195	0.4875	4982.1750	965.9670	0.1144	0.0222
25	90.4320	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	90.4445	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	90.4570	0.5250	5771.7000	1166.4244	0.1325	0.0268

28	90.4695	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	90.4820	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	90.4945	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	90.5070	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	90.5195	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	90.5320	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	90.5445	0.6125	7900.6950	1761.8875	0.1814	0.0404
35	90.5570	0.6250	8265.5100	1862.9177	0.1897	0.0428
36	90.5695	0.6375	8630.3250	1968.5084	0.1981	0.0452
37	90.5820	0.6500	8995.1400	2078.6597	0.2065	0.0477
38	90.5945	0.6625	9359.9550	2193.3715	0.2149	0.0504
39	90.6070	0.6750	9724.7700	2312.6438	0.2233	0.0531
40	90.6195	0.6875	10089.5850	2436.4765	0.2316	0.0559
41	90.6320	0.7000	10454.4000	2564.8697	0.2400	0.0589
42	90.6570	0.7250	11238.4800	2835.9716	0.2580	0.0651
43	90.6820	0.7500	12022.5600	3126.6795	0.2760	0.0718
44	90.7070	0.7750	12806.6400	3436.9929	0.2940	0.0789
45	90.7320	0.8000	13590.7200	3766.9114	0.3120	0.0865
46	90.7570	0.8250	14374.8000	4116.4346	0.3300	0.0945
47	90.7820	0.8500	15158.8800	4485.5622	0.3480	0.1030
48	90.8070	0.8750	15942.9600	4874.2940	0.3660	0.1119
49	90.8320	0.9000	16727.0400	5282.6298	0.3840	0.1213
50	101.4200	11.4880	16727.0400	182388.5293	0.3840	4.1871

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| Variable storage data for node | CN-3
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	90.2520	0.0000	4.3560	0.0000	0.0001	0.0000
2	90.2770	0.0250	150.8265	1.5068	0.0035	0.0000
3	90.3020	0.0500	297.2970	7.0058	0.0068	0.0002
4	90.3270	0.0750	443.7675	16.2082	0.0102	0.0004
5	90.3520	0.1000	590.2380	29.0898	0.0135	0.0007
6	90.3770	0.1250	736.7085	45.6428	0.0169	0.0010
7	90.4020	0.1500	883.1790	65.8638	0.0203	0.0015
8	90.4270	0.1750	1029.6495	89.7507	0.0236	0.0021
9	90.4520	0.2000	1176.1200	117.3026	0.0270	0.0027
10	90.4770	0.2250	1475.5950	150.3783	0.0339	0.0035
11	90.5020	0.2500	1775.0700	190.9540	0.0408	0.0044
12	90.5270	0.2750	2074.5450	239.0256	0.0476	0.0055
13	90.5520	0.3000	2374.0200	294.5906	0.0545	0.0068
14	90.5770	0.3250	2673.4950	357.6475	0.0614	0.0082
15	90.6020	0.3500	2972.9700	428.1952	0.0683	0.0098
16	90.6270	0.3750	3272.4450	506.2330	0.0751	0.0116
17	90.6520	0.4000	3571.9200	591.7602	0.0820	0.0136
18	90.6645	0.4125	3773.3850	637.6626	0.0866	0.0146
19	90.6770	0.4250	3974.8500	686.0836	0.0912	0.0158
20	90.6895	0.4375	4176.3150	737.0232	0.0959	0.0169
21	90.7020	0.4500	4377.7800	790.4814	0.1005	0.0181
22	90.7145	0.4625	4579.2450	846.4581	0.1051	0.0194
23	90.7270	0.4750	4780.7100	904.9533	0.1098	0.0208
24	90.7395	0.4875	4982.1750	965.9670	0.1144	0.0222
25	90.7520	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	90.7645	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	90.7770	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	90.7895	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	90.8020	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	90.8145	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	90.8270	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	90.8395	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	90.8520	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	90.8645	0.6125	7900.6950	1761.8875	0.1814	0.0404
35	90.8770	0.6250	8265.5100	1862.9177	0.1897	0.0428
36	90.8895	0.6375	8630.3250	1968.5084	0.1981	0.0452
37	90.9020	0.6500	8995.1400	2078.6597	0.2065	0.0477
38	90.9145	0.6625	9359.9550	2193.3715	0.2149	0.0504
39	90.9270	0.6750	9724.7700	2312.6438	0.2233	0.0531
40	90.9395	0.6875	10089.5850	2436.4765	0.2316	0.0559
41	90.9520	0.7000	10454.4000	2564.8697	0.2400	0.0589
42	90.9770	0.7250	11238.4800	2835.9716	0.2580	0.0651
43	91.0020	0.7500	12022.5600	3126.6795	0.2760	0.0718
44	91.0270	0.7750	12806.6400	3436.9929	0.2940	0.0789
45	91.0520	0.8000	13590.7200	3766.9114	0.3120	0.0865
46	91.0770	0.8250	14374.8000	4116.4346	0.3300	0.0945
47	91.1020	0.8500	15158.8800	4485.5622	0.3480	0.1030
48	91.1270	0.8750	15942.9600	4874.2940	0.3660	0.1119
49	91.1520	0.9000	16727.0400	5282.6298	0.3840	0.1213
50	101.8200	11.5680	16727.0400	183726.6925	0.3840	4.2178

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| Variable storage data for node | CS-5
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	93.7700	0.0000	4.3560	0.0000	0.0001	0.0000
2	93.7950	0.0250	150.8265	1.5068	0.0035	0.0000
3	93.8200	0.0500	297.2970	7.0058	0.0068	0.0002
4	93.8450	0.0750	443.7675	16.2082	0.0102	0.0004
5	93.8700	0.1000	590.2380	29.0898	0.0135	0.0007
6	93.8950	0.1250	736.7085	45.6428	0.0169	0.0010
7	93.9200	0.1500	883.1790	65.8638	0.0203	0.0015
8	93.9450	0.1750	1029.6495	89.7507	0.0236	0.0021
9	93.9700	0.2000	1176.1200	117.3026	0.0270	0.0027
10	93.9950	0.2250	1475.5950	150.3783	0.0339	0.0035
11	94.0200	0.2500	1775.0700	190.9540	0.0408	0.0044
12	94.0450	0.2750	2074.5450	239.0256	0.0476	0.0055
13	94.0700	0.3000	2374.0200	294.5906	0.0545	0.0068
14	94.0950	0.3250	2673.4950	357.6475	0.0614	0.0082
15	94.1200	0.3500	2972.9700	428.1952	0.0683	0.0098
16	94.1450	0.3750	3272.4450	506.2330	0.0751	0.0116
17	94.1700	0.4000	3571.9200	591.7602	0.0820	0.0136
18	94.1825	0.4125	3773.3850	637.6626	0.0866	0.0146
19	94.1950	0.4250	3974.8500	686.0836	0.0912	0.0158
20	94.2075	0.4375	4176.3150	737.0232	0.0959	0.0169
21	94.2200	0.4500	4377.7800	790.4814	0.1005	0.0181
22	94.2325	0.4625	4579.2450	846.4581	0.1051	0.0194
23	94.2450	0.4750	4780.7100	904.9533	0.1098	0.0208
24	94.2575	0.4875	4982.1750	965.9670	0.1144	0.0222
25	94.2700	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	94.2825	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	94.2950	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	94.3075	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	94.3200	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	94.3325	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	94.3450	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	94.3575	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	94.3700	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	94.3825	0.6125	7900.6950	1761.8875	0.1814	0.0404
35	94.3950	0.6250	8265.5100	1862.9177	0.1897	0.0428
36	94.4075	0.6375	8630.3250	1968.5084	0.1981	0.0452
37	94.4200	0.6500	8995.1400	2078.6597	0.2065	0.0477
38	94.4325	0.6625	9359.9550	2193.3715	0.2149	0.0504
39	94.4450	0.6750	9724.7700	2312.6438	0.2233	0.0531
40	94.4575	0.6875	10089.5850	2436.4765	0.2316	0.0559
41	94.4700	0.7000	10454.4000	2564.8697	0.2400	0.0589

42	94.4950	0.7250	11238.4800	2835.9716	0.2580	0.0651
43	94.5200	0.7500	12022.5600	3126.6795	0.2760	0.0718
44	94.5450	0.7750	12806.6400	3436.9929	0.2940	0.0789
45	94.5700	0.8000	13590.7200	3766.9114	0.3120	0.0865
46	94.5950	0.8250	14374.8000	4116.4346	0.3300	0.0945
47	94.6200	0.8500	15158.8800	4485.5622	0.3480	0.1030
48	94.6450	0.8750	15942.9600	4874.2940	0.3660	0.1119
49	94.6700	0.9000	16727.0400	5282.6298	0.3840	0.1213
50	103.1600	9.3900	16727.0400	147295.1994	0.3840	3.3814

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| Variable storage data for node | CS-4
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	90.6140	0.0000	4.3560	0.0000	0.0001	0.0000
2	90.6390	0.0250	150.8265	1.5068	0.0035	0.0000
3	90.6640	0.0500	297.2970	7.0058	0.0068	0.0002
4	90.6890	0.0750	443.7675	16.2082	0.0102	0.0004
5	90.7140	0.1000	590.2380	29.0898	0.0135	0.0007
6	90.7390	0.1250	736.7085	45.6428	0.0169	0.0010
7	90.7640	0.1500	883.1790	65.8638	0.0203	0.0015
8	90.7890	0.1750	1029.6495	89.7507	0.0236	0.0021
9	90.8140	0.2000	1176.1200	117.3026	0.0270	0.0027
10	90.8390	0.2250	1475.5950	150.3783	0.0339	0.0035
11	90.8640	0.2500	1775.0700	190.9540	0.0408	0.0044
12	90.8890	0.2750	2074.5450	239.0256	0.0476	0.0055
13	90.9140	0.3000	2374.0200	294.5906	0.0545	0.0068
14	90.9390	0.3250	2673.4950	357.6475	0.0614	0.0082
15	90.9640	0.3500	2972.9700	428.1952	0.0683	0.0098
16	90.9890	0.3750	3272.4450	506.2330	0.0751	0.0116
17	91.0140	0.4000	3571.9200	591.7602	0.0820	0.0136
18	91.0265	0.4125	3773.3850	637.6626	0.0866	0.0146
19	91.0390	0.4250	3974.8500	686.0836	0.0912	0.0158
20	91.0515	0.4375	4176.3150	737.0232	0.0959	0.0169
21	91.0640	0.4500	4377.7800	790.4814	0.1005	0.0181
22	91.0765	0.4625	4579.2450	846.4581	0.1051	0.0194
23	91.0890	0.4750	4780.7100	904.9533	0.1098	0.0208
24	91.1015	0.4875	4982.1750	965.9670	0.1144	0.0222
25	91.1140	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	91.1265	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	91.1390	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	91.1515	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	91.1640	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	91.1765	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	91.1890	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	91.2015	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	91.2140	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	91.2265	0.6125	7900.6950	1761.8875	0.1814	0.0404
35	91.2390	0.6250	8265.5100	1862.9177	0.1897	0.0428
36	91.2515	0.6375	8630.3250	1968.5084	0.1981	0.0452
37	91.2640	0.6500	8995.1400	2078.6597	0.2065	0.0477
38	91.2765	0.6625	9359.9550	2193.3715	0.2149	0.0504
39	91.2890	0.6750	9724.7700	2312.6438	0.2233	0.0531
40	91.3015	0.6875	10089.5850	2436.4765	0.2316	0.0559
41	91.3140	0.7000	10454.4000	2564.8697	0.2400	0.0589
42	91.3390	0.7250	11238.4800	2835.9716	0.2580	0.0651
43	91.3640	0.7500	12022.5600	3126.6795	0.2760	0.0718
44	91.3890	0.7750	12806.6400	3436.9929	0.2940	0.0789
45	91.4140	0.8000	13590.7200	3766.9114	0.3120	0.0865
46	91.4390	0.8250	14374.8000	4116.4346	0.3300	0.0945
47	91.4640	0.8500	15158.8800	4485.5622	0.3480	0.1030
48	91.4890	0.8750	15942.9600	4874.2940	0.3660	0.1119
49	91.5140	0.9000	16727.0400	5282.6298	0.3840	0.1213
50	103.4600	12.8460	16727.0400	205103.8496	0.3840	4.7085

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| Variable storage data for node | CN-2
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	91.3320	0.0000	4.3560	0.0000	0.0001	0.0000
2	91.3570	0.0250	150.8265	1.5068	0.0035	0.0000
3	91.3820	0.0500	297.2970	7.0058	0.0068	0.0002
4	91.4070	0.0750	443.7675	16.2082	0.0102	0.0004
5	91.4320	0.1000	590.2380	29.0898	0.0135	0.0007
6	91.4570	0.1250	736.7085	45.6428	0.0169	0.0010
7	91.4820	0.1500	883.1790	65.8638	0.0203	0.0015
8	91.5070	0.1750	1029.6495	89.7507	0.0236	0.0021
9	91.5320	0.2000	1176.1200	117.3026	0.0270	0.0027
10	91.5570	0.2250	1475.5950	150.3783	0.0339	0.0035
11	91.5820	0.2500	1775.0700	190.9540	0.0408	0.0044
12	91.6070	0.2750	2074.5450	239.0256	0.0476	0.0055
13	91.6320	0.3000	2374.0200	294.5906	0.0545	0.0068
14	91.6570	0.3250	2673.4950	357.6475	0.0614	0.0082
15	91.6820	0.3500	2972.9700	428.1952	0.0683	0.0098
16	91.7070	0.3750	3272.4450	506.2330	0.0751	0.0116
17	91.7320	0.4000	3571.9200	591.7602	0.0820	0.0136
18	91.7445	0.4125	3773.3850	637.6626	0.0866	0.0146
19	91.7570	0.4250	3974.8500	686.0836	0.0912	0.0158
20	91.7695	0.4375	4176.3150	737.0232	0.0959	0.0169
21	91.7820	0.4500	4377.7800	790.4814	0.1005	0.0181
22	91.7945	0.4625	4579.2450	846.4581	0.1051	0.0194
23	91.8070	0.4750	4780.7100	904.9533	0.1098	0.0208
24	91.8195	0.4875	4982.1750	965.9670	0.1144	0.0222
25	91.8320	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	91.8445	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	91.8570	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	91.8695	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	91.8820	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	91.8945	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	91.9070	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	91.9195	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	91.9320	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	91.9445	0.6125	7900.6950	1761.8875	0.1814	0.0404
35	91.9570	0.6250	8265.5100	1862.9177	0.1897	0.0428
36	91.9695	0.6375	8630.3250	1968.5084	0.1981	0.0452
37	91.9820	0.6500	8995.1400	2078.6597	0.2065	0.0477
38	91.9945	0.6625	9359.9550	2193.3715	0.2149	0.0504
39	92.0070	0.6750	9724.7700	2312.6438	0.2233	0.0531
40	92.0195	0.6875	10089.5850	2436.4765	0.2316	0.0559
41	92.0320	0.7000	10454.4000	2564.8697	0.2400	0.0589
42	92.0570	0.7250	11238.4800	2835.9716	0.2580	0.0651
43	92.0820	0.7500	12022.5600	3126.6795	0.2760	0.0718
44	92.1070	0.7750	12806.6400	3436.9929	0.2940	0.0789
45	92.1320	0.8000	13590.7200	3766.9114	0.3120	0.0865
46	92.1570	0.8250	14374.8000	4116.4346	0.3300	0.0945
47	92.1820	0.8500	15158.8800	4485.5622	0.3480	0.1030
48	92.2070	0.8750	15942.9600	4874.2940	0.3660	0.1119
49	92.2320	0.9000	16727.0400	5282.6298	0.3840	0.1213
50	104.6700	13.3380	16727.0400	213333.5533	0.3840	4.8975

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| Variable storage data for node | CS-3
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Data	Elevation	Depth	Area	Volume	Area	Volume

Point	ft	ft	ft^2	ft^3	acres	ac-ft
1	93.6400	0.0000	4.3560	0.0000	0.0001	0.0000
2	93.6650	0.0250	150.8265	1.5068	0.0035	0.0000
3	93.6900	0.0500	297.2970	7.0058	0.0068	0.0002
4	93.7150	0.0750	443.7675	16.2082	0.0102	0.0004
5	93.7400	0.1000	590.2380	29.0898	0.0135	0.0007
6	93.7650	0.1250	736.7085	45.6428	0.0169	0.0010
7	93.7900	0.1500	883.1790	65.8638	0.0203	0.0015
8	93.8150	0.1750	1029.6495	89.7507	0.0236	0.0021
9	93.8400	0.2000	1176.1200	117.3026	0.0270	0.0027
10	93.8650	0.2250	1475.5950	150.3783	0.0339	0.0035
11	93.8900	0.2500	1775.0700	190.9540	0.0408	0.0044
12	93.9150	0.2750	2074.5450	239.0256	0.0476	0.0055
13	93.9400	0.3000	2374.0200	294.5906	0.0545	0.0068
14	93.9650	0.3250	2673.4950	357.6475	0.0614	0.0082
15	93.9900	0.3500	2972.9700	428.1952	0.0683	0.0098
16	94.0150	0.3750	3272.4450	506.2330	0.0751	0.0116
17	94.0400	0.4000	3571.9200	591.7602	0.0820	0.0136
18	94.0525	0.4125	3773.3850	637.6626	0.0866	0.0146
19	94.0650	0.4250	3974.8500	686.0836	0.0912	0.0158
20	94.0775	0.4375	4176.3150	737.0232	0.0959	0.0169
21	94.0900	0.4500	4377.7800	790.4814	0.1005	0.0181
22	94.1025	0.4625	4579.2450	846.4581	0.1051	0.0194
23	94.1150	0.4750	4780.7100	904.9533	0.1098	0.0208
24	94.1275	0.4875	4982.1750	965.9670	0.1144	0.0222
25	94.1400	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	94.1525	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	94.1650	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	94.1775	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	94.1900	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	94.2025	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	94.2150	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	94.2275	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	94.2400	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	94.2525	0.6125	7900.6950	1761.8875	0.1814	0.0404
35	94.2650	0.6250	8265.5100	1862.9177	0.1897	0.0428
36	94.2775	0.6375	8630.3250	1968.5084	0.1981	0.0452
37	94.2900	0.6500	8995.1400	2078.6597	0.2065	0.0477
38	94.3025	0.6625	9359.9550	2193.3715	0.2149	0.0504
39	94.3150	0.6750	9724.7700	2312.6438	0.2233	0.0531
40	94.3275	0.6875	10089.5850	2436.4765	0.2316	0.0559
41	94.3400	0.7000	10454.4000	2564.8697	0.2400	0.0589
42	94.3650	0.7250	11238.4800	2835.9716	0.2580	0.0651
43	94.3900	0.7500	12022.5600	3126.6795	0.2760	0.0718
44	94.4150	0.7750	12806.6400	3436.9929	0.2940	0.0789
45	94.4400	0.8000	13590.7200	3766.9114	0.3120	0.0865
46	94.4650	0.8250	14374.8000	4116.4346	0.3300	0.0945
47	94.4900	0.8500	15158.8800	4485.5622	0.3480	0.1030
48	94.5150	0.8750	15942.9600	4874.2940	0.3660	0.1119
49	94.5400	0.9000	16727.0400	5282.6298	0.3840	0.1213
50	106.6100	12.9700	16727.0400	207178.0026	0.3840	4.7562

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| Variable storage data for node | CS-2
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	93.9400	0.0000	4.3560	0.0000	0.0001	0.0000
2	93.9650	0.0250	150.8265	1.5068	0.0035	0.0000
3	93.9900	0.0500	297.2970	7.0058	0.0068	0.0002
4	94.0150	0.0750	443.7675	16.2082	0.0102	0.0004
5	94.0400	0.1000	590.2380	29.0898	0.0135	0.0007
6	94.0650	0.1250	736.7085	45.6428	0.0169	0.0010
7	94.0900	0.1500	883.1790	65.8638	0.0203	0.0015
8	94.1150	0.1750	1029.6495	89.7507	0.0236	0.0021
9	94.1400	0.2000	1176.1200	117.3026	0.0270	0.0027
10	94.1650	0.2250	1475.5950	150.3783	0.0339	0.0035
11	94.1900	0.2500	1775.0700	190.9540	0.0408	0.0044
12	94.2150	0.2750	2074.5450	239.0256	0.0476	0.0055
13	94.2400	0.3000	2374.0200	294.5906	0.0545	0.0068
14	94.2650	0.3250	2673.4950	357.6475	0.0614	0.0082
15	94.2900	0.3500	2972.9700	428.1952	0.0683	0.0098
16	94.3150	0.3750	3272.4450	506.2330	0.0751	0.0116
17	94.3400	0.4000	3571.9200	591.7602	0.0820	0.0136
18	94.3525	0.4125	3773.3850	637.6626	0.0866	0.0146
19	94.3650	0.4250	3974.8500	686.0836	0.0912	0.0158
20	94.3775	0.4375	4176.3150	737.0232	0.0959	0.0169
21	94.3900	0.4500	4377.7800	790.4814	0.1005	0.0181
22	94.4025	0.4625	4579.2450	846.4581	0.1051	0.0194
23	94.4150	0.4750	4780.7100	904.9533	0.1098	0.0208
24	94.4275	0.4875	4982.1750	965.9670	0.1144	0.0222
25	94.4400	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	94.4525	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	94.4650	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	94.4775	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	94.4900	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	94.5025	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	94.5150	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	94.5275	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	94.5400	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	94.5525	0.6125	7900.6950	1761.8875	0.1814	0.0404
35	94.5650	0.6250	8265.5100	1862.9177	0.1897	0.0428
36	94.5775	0.6375	8630.3250	1968.5084	0.1981	0.0452
37	94.5900	0.6500	8995.1400	2078.6597	0.2065	0.0477
38	94.6025	0.6625	9359.9550	2193.3715	0.2149	0.0504
39	94.6150	0.6750	9724.7700	2312.6438	0.2233	0.0531
40	94.6275	0.6875	10089.5850	2436.4765	0.2316	0.0559
41	94.6400	0.7000	10454.4000	2564.8697	0.2400	0.0589
42	94.6650	0.7250	11238.4800	2835.9716	0.2580	0.0651
43	94.6900	0.7500	12022.5600	3126.6795	0.2760	0.0718
44	94.7150	0.7750	12806.6400	3436.9929	0.2940	0.0789
45	94.7400	0.8000	13590.7200	3766.9114	0.3120	0.0865
46	94.7650	0.8250	14374.8000	4116.4346	0.3300	0.0945
47	94.7900	0.8500	15158.8800	4485.5622	0.3480	0.1030
48	94.8150	0.8750	15942.9600	4874.2940	0.3660	0.1119
49	94.8400	0.9000	16727.0400	5282.6298	0.3840	0.1213
50	105.5600	11.6200	16727.0400	184596.4986	0.3840	4.2378

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| Variable storage data for node | CN-1
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	92.2090	0.0000	4.3560	0.0000	0.0001	0.0000
2	92.2340	0.0250	150.8265	1.5068	0.0035	0.0000
3	92.2590	0.0500	297.2970	7.0058	0.0068	0.0002
4	92.2840	0.0750	443.7675	16.2082	0.0102	0.0004
5	92.3090	0.1000	590.2380	29.0898	0.0135	0.0007
6	92.3340	0.1250	736.7085	45.6428	0.0169	0.0010
7	92.3590	0.1500	883.1790	65.8638	0.0203	0.0015
8	92.3840	0.1750	1029.6495	89.7507	0.0236	0.0021
9	92.4090	0.2000	1176.1200	117.3026	0.0270	0.0027
10	92.4340	0.2250	1475.5950	150.3783	0.0339	0.0035
11	92.4590	0.2500	1775.0700	190.9540	0.0408	0.0044
12	92.4840	0.2750	2074.5450	239.0256	0.0476	0.0055

13	92.5090	0.3000	2374.0200	294.5906	0.0545	0.0068
14	92.5340	0.3250	2673.4950	357.6475	0.0614	0.0082
15	92.5590	0.3500	2972.9700	428.1952	0.0683	0.0098
16	92.5840	0.3750	3272.4450	506.2330	0.0751	0.0116
17	92.6090	0.4000	3571.9200	591.7602	0.0820	0.0136
18	92.6215	0.4125	3773.3850	637.6626	0.0866	0.0146
19	92.6340	0.4250	3974.8500	686.0836	0.0912	0.0158
20	92.6465	0.4375	4176.3150	737.0232	0.0959	0.0169
21	92.6590	0.4500	4377.7800	790.4814	0.1005	0.0181
22	92.6715	0.4625	4579.2450	846.4581	0.1051	0.0194
23	92.6840	0.4750	4780.7100	904.9533	0.1098	0.0208
24	92.6965	0.4875	4982.1750	965.9670	0.1144	0.0222
25	92.7090	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	92.7215	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	92.7340	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	92.7465	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	92.7590	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	92.7715	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	92.7840	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	92.7965	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	92.8090	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	92.8215	0.6125	7900.6950	1761.8875	0.1814	0.0404
35	92.8340	0.6250	8265.5100	1862.9177	0.1897	0.0428
36	92.8465	0.6375	8630.3250	1968.5084	0.1981	0.0452
37	92.8590	0.6500	8995.1400	2078.6597	0.2065	0.0477
38	92.8715	0.6625	9359.9550	2193.3715	0.2149	0.0504
39	92.8840	0.6750	9724.7700	2312.6438	0.2233	0.0531
40	92.8965	0.6875	10089.5850	2436.4765	0.2316	0.0559
41	92.9090	0.7000	10454.4000	2564.8697	0.2400	0.0589
42	92.9340	0.7250	11238.4800	2835.9716	0.2580	0.0651
43	92.9590	0.7500	12022.5600	3126.6795	0.2760	0.0718
44	92.9840	0.7750	12806.6400	3436.9929	0.2940	0.0789
45	93.0090	0.8000	13590.7200	3766.9114	0.3120	0.0865
46	93.0340	0.8250	14374.8000	4116.4346	0.3300	0.0945
47	93.0590	0.8500	15158.8800	4485.5622	0.3480	0.1030
48	93.0840	0.8750	15942.9600	4874.2940	0.3660	0.1119
49	93.1090	0.9000	16727.0400	5282.6298	0.3840	0.1213
50	103.0000	10.7910	16727.0400	170729.7824	0.3840	3.9194

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| Variable storage data for node | BN-8
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	92.5320	0.0000	4.3560	0.0000	0.0001	0.0000
2	92.5570	0.0250	150.8265	1.5068	0.0035	0.0000
3	92.5820	0.0500	297.2970	7.0058	0.0068	0.0002
4	92.6070	0.0750	443.7675	16.2082	0.0102	0.0004
5	92.6320	0.1000	590.2380	29.0898	0.0135	0.0007
6	92.6570	0.1250	736.7085	45.6428	0.0169	0.0010
7	92.6820	0.1500	883.1790	65.8638	0.0203	0.0015
8	92.7070	0.1750	1029.6495	89.7507	0.0236	0.0021
9	92.7320	0.2000	1176.1200	117.3026	0.0270	0.0027
10	92.7570	0.2250	1475.5950	150.3783	0.0339	0.0035
11	92.7820	0.2500	1775.0700	190.9540	0.0408	0.0044
12	92.8070	0.2750	2074.5450	239.0256	0.0476	0.0055
13	92.8320	0.3000	2374.0200	294.5906	0.0545	0.0068
14	92.8570	0.3250	2673.4950	357.6475	0.0614	0.0082
15	92.8820	0.3500	2972.9700	428.1952	0.0683	0.0098
16	92.9070	0.3750	3272.4450	506.2330	0.0751	0.0116
17	92.9320	0.4000	3571.9200	591.7602	0.0820	0.0136
18	92.9445	0.4125	3773.3850	637.6626	0.0866	0.0146
19	92.9570	0.4250	3974.8500	686.0836	0.0912	0.0158
20	92.9695	0.4375	4176.3150	737.0232	0.0959	0.0169
21	92.9820	0.4500	4377.7800	790.4814	0.1005	0.0181
22	92.9945	0.4625	4579.2450	846.4581	0.1051	0.0194
23	93.0070	0.4750	4780.7100	904.9533	0.1098	0.0208
24	93.0195	0.4875	4982.1750	965.9670	0.1144	0.0222
25	93.0320	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	93.0445	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	93.0570	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	93.0695	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	93.0820	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	93.0945	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	93.1070	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	93.1195	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	93.1320	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	93.1445	0.6125	7900.6950	1761.8875	0.1814	0.0404
35	93.1570	0.6250	8265.5100	1862.9177	0.1897	0.0428
36	93.1695	0.6375	8630.3250	1968.5084	0.1981	0.0452
37	93.1820	0.6500	8995.1400	2078.6597	0.2065	0.0477
38	93.1945	0.6625	9359.9550	2193.3715	0.2149	0.0504
39	93.2070	0.6750	9724.7700	2312.6438	0.2233	0.0531
40	93.2195	0.6875	10089.5850	2436.4765	0.2316	0.0559
41	93.2320	0.7000	10454.4000	2564.8697	0.2400	0.0589
42	93.2570	0.7250	11238.4800	2835.9716	0.2580	0.0651
43	93.2820	0.7500	12022.5600	3126.6795	0.2760	0.0718
44	93.3070	0.7750	12806.6400	3436.9929	0.2940	0.0789
45	93.3320	0.8000	13590.7200	3766.9114	0.3120	0.0865
46	93.3570	0.8250	14374.8000	4116.4346	0.3300	0.0945
47	93.3820	0.8500	15158.8800	4485.5622	0.3480	0.1030
48	93.4070	0.8750	15942.9600	4874.2940	0.3660	0.1119
49	93.4320	0.9000	16727.0400	5282.6298	0.3840	0.1213
50	105.5600	13.0280	16727.0400	208148.1709	0.3840	4.7784

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| Variable storage data for node | CS-1
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	95.4400	0.0000	4.3560	0.0000	0.0001	0.0000
2	95.4650	0.0250	150.8265	1.5068	0.0035	0.0000
3	95.4900	0.0500	297.2970	7.0058	0.0068	0.0002
4	95.5150	0.0750	443.7675	16.2082	0.0102	0.0004
5	95.5400	0.1000	590.2380	29.0898	0.0135	0.0007
6	95.5650	0.1250	736.7085	45.6428	0.0169	0.0010
7	95.5900	0.1500	883.1790	65.8638	0.0203	0.0015
8	95.6150	0.1750	1029.6495	89.7507	0.0236	0.0021
9	95.6400	0.2000	1176.1200	117.3026	0.0270	0.0027
10	95.6650	0.2250	1475.5950	150.3783	0.0339	0.0035
11	95.6900	0.2500	1775.0700	190.9540	0.0408	0.0044
12	95.7150	0.2750	2074.5450	239.0256	0.0476	0.0055
13	95.7400	0.3000	2374.0200	294.5906	0.0545	0.0068
14	95.7650	0.3250	2673.4950	357.6475	0.0614	0.0082
15	95.7900	0.3500	2972.9700	428.1952	0.0683	0.0098
16	95.8150	0.3750	3272.4450	506.2330	0.0751	0.0116
17	95.8400	0.4000	3571.9200	591.7602	0.0820	0.0136
18	95.8525	0.4125	3773.3850	637.6626	0.0866	0.0146
19	95.8650	0.4250	3974.8500	686.0836	0.0912	0.0158
20	95.8775	0.4375	4176.3150	737.0232	0.0959	0.0169
21	95.8900	0.4500	4377.7800	790.4814	0.1005	0.0181
22	95.9025	0.4625	4579.2450	846.4581	0.1051	0.0194
23	95.9150	0.4750	4780.7100	904.9533	0.1098	0.0208
24	95.9275	0.4875	4982.1750	965.9670	0.1144	0.0222
25	95.9400	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	95.9525	0.5125	5477.6700	1096.1239	0.1258	0.0252

27	95.9650	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	95.9775	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	95.9900	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	96.0025	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	96.0150	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	96.0275	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	96.0400	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	96.0525	0.6125	7900.6950	1761.8875	0.1814	0.0404
35	96.0650	0.6250	8265.5100	1862.9177	0.1897	0.0428
36	96.0775	0.6375	8630.3250	1968.5084	0.1981	0.0452
37	96.0900	0.6500	8995.1400	2078.6597	0.2065	0.0477
38	96.1025	0.6625	9359.9550	2193.3715	0.2149	0.0504
39	96.1150	0.6750	9724.7700	2312.6438	0.2233	0.0531
40	96.1275	0.6875	10089.5850	2436.4765	0.2316	0.0559
41	96.1400	0.7000	10454.4000	2564.8697	0.2400	0.0589
42	96.1650	0.7250	11238.4800	2835.9716	0.2580	0.0651
43	96.1900	0.7500	12022.5600	3126.6795	0.2760	0.0718
44	96.2150	0.7750	12806.6400	3436.9929	0.2940	0.0789
45	96.2400	0.8000	13590.7200	3766.9114	0.3120	0.0865
46	96.2650	0.8250	14374.8000	4116.4346	0.3300	0.0945
47	96.2900	0.8500	15158.8800	4485.5622	0.3480	0.1030
48	96.3150	0.8750	15942.9600	4874.2940	0.3660	0.1119
49	96.3400	0.9000	16727.0400	5282.6298	0.3840	0.1213
50	105.8300	10.3900	16727.0400	164022.2394	0.3840	3.7654

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| Variable storage data for node | BN-7
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	93.6600	0.0000	4.3560	0.0000	0.0001	0.0000
2	93.6850	0.0250	150.8265	1.5068	0.0035	0.0000
3	93.7100	0.0500	297.2970	7.0058	0.0068	0.0002
4	93.7350	0.0750	443.7675	16.2082	0.0102	0.0004
5	93.7600	0.1000	590.2380	29.0898	0.0135	0.0007
6	93.7850	0.1250	736.7085	45.6428	0.0169	0.0010
7	93.8100	0.1500	883.1790	65.8638	0.0203	0.0015
8	93.8350	0.1750	1029.6495	89.7507	0.0236	0.0021
9	93.8600	0.2000	1176.1200	117.3026	0.0270	0.0027
10	93.8850	0.2250	1475.5950	150.3783	0.0339	0.0035
11	93.9100	0.2500	1775.0700	190.9540	0.0408	0.0044
12	93.9350	0.2750	2074.5450	239.0256	0.0476	0.0055
13	93.9600	0.3000	2374.0200	294.5906	0.0545	0.0068
14	93.9850	0.3250	2673.4950	357.6475	0.0614	0.0082
15	94.0100	0.3500	2972.9700	428.1952	0.0683	0.0098
16	94.0350	0.3750	3272.4450	506.2330	0.0751	0.0116
17	94.0600	0.4000	3571.9200	591.7602	0.0820	0.0136
18	94.0725	0.4125	3773.3850	637.6626	0.0866	0.0146
19	94.0850	0.4250	3974.8500	686.0836	0.0912	0.0158
20	94.0975	0.4375	4176.3150	737.0232	0.0959	0.0169
21	94.1100	0.4500	4377.7800	790.4814	0.1005	0.0181
22	94.1225	0.4625	4579.2450	846.4581	0.1051	0.0194
23	94.1350	0.4750	4780.7100	904.9533	0.1098	0.0208
24	94.1475	0.4875	4982.1750	965.9670	0.1144	0.0222
25	94.1600	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	94.1725	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	94.1850	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	94.1975	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	94.2100	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	94.2225	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	94.2350	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	94.2475	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	94.2600	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	94.2725	0.6125	7900.6950	1761.8875	0.1814	0.0404
35	94.2850	0.6250	8265.5100	1862.9177	0.1897	0.0428
36	94.2975	0.6375	8630.3250	1968.5084	0.1981	0.0452
37	94.3100	0.6500	8995.1400	2078.6597	0.2065	0.0477
38	94.3225	0.6625	9359.9550	2193.3715	0.2149	0.0504
39	94.3350	0.6750	9724.7700	2312.6438	0.2233	0.0531
40	94.3475	0.6875	10089.5850	2436.4765	0.2316	0.0559
41	94.3600	0.7000	10454.4000	2564.8697	0.2400	0.0589
42	94.3850	0.7250	11238.4800	2835.9716	0.2580	0.0651
43	94.4100	0.7500	12022.5600	3126.6795	0.2760	0.0718
44	94.4350	0.7750	12806.6400	3436.9929	0.2940	0.0789
45	94.4600	0.8000	13590.7200	3766.9114	0.3120	0.0865
46	94.4850	0.8250	14374.8000	4116.4346	0.3300	0.0945
47	94.5100	0.8500	15158.8800	4485.5622	0.3480	0.1030
48	94.5350	0.8750	15942.9600	4874.2940	0.3660	0.1119
49	94.5600	0.9000	16727.0400	5282.6298	0.3840	0.1213
50	106.2200	12.5600	16727.0400	200319.9162	0.3840	4.5987

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| Variable storage data for node | BS-8
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	93.6510	0.0000	4.3560	0.0000	0.0001	0.0000
2	93.6760	0.0250	150.8265	1.5068	0.0035	0.0000
3	93.7010	0.0500	297.2970	7.0058	0.0068	0.0002
4	93.7260	0.0750	443.7675	16.2082	0.0102	0.0004
5	93.7510	0.1000	590.2380	29.0898	0.0135	0.0007
6	93.7760	0.1250	736.7085	45.6428	0.0169	0.0010
7	93.8010	0.1500	883.1790	65.8638	0.0203	0.0015
8	93.8260	0.1750	1029.6495	89.7507	0.0236	0.0021
9	93.8510	0.2000	1176.1200	117.3026	0.0270	0.0027
10	93.8760	0.2250	1475.5950	150.3783	0.0339	0.0035
11	93.9010	0.2500	1775.0700	190.9540	0.0408	0.0044
12	93.9260	0.2750	2074.5450	239.0256	0.0476	0.0055
13	93.9510	0.3000	2374.0200	294.5906	0.0545	0.0068
14	93.9760	0.3250	2673.4950	357.6475	0.0614	0.0082
15	94.0010	0.3500	2972.9700	428.1952	0.0683	0.0098
16	94.0260	0.3750	3272.4450	506.2330	0.0751	0.0116
17	94.0510	0.4000	3571.9200	591.7602	0.0820	0.0136
18	94.0635	0.4125	3773.3850	637.6626	0.0866	0.0146
19	94.0760	0.4250	3974.8500	686.0836	0.0912	0.0158
20	94.0885	0.4375	4176.3150	737.0232	0.0959	0.0169
21	94.1010	0.4500	4377.7800	790.4814	0.1005	0.0181
22	94.1135	0.4625	4579.2450	846.4581	0.1051	0.0194
23	94.1260	0.4750	4780.7100	904.9533	0.1098	0.0208
24	94.1385	0.4875	4982.1750	965.9670	0.1144	0.0222
25	94.1510	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	94.1635	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	94.1760	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	94.1885	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	94.2010	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	94.2135	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	94.2260	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	94.2385	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	94.2510	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	94.2635	0.6125	7900.6950	1761.8875	0.1814	0.0404
35	94.2760	0.6250	8265.5100	1862.9177	0.1897	0.0428
36	94.2885	0.6375	8630.3250	1968.5084	0.1981	0.0452
37	94.3010	0.6500	8995.1400	2078.6597	0.2065	0.0477
38	94.3135	0.6625	9359.9550	2193.3715	0.2149	0.0504
39	94.3260	0.6750	9724.7700	2312.6438	0.2233	0.0531
40	94.3385	0.6875	10089.5850	2436.4765	0.2316	0.0559

41	94.3510	0.7000	10454.4000	2564.8697	0.2400	0.0589
42	94.3760	0.7250	11238.4800	2835.9716	0.2580	0.0651
43	94.4010	0.7500	12022.5600	3126.6795	0.2760	0.0718
44	94.4260	0.7750	12806.6400	3436.9929	0.2940	0.0789
45	94.4510	0.8000	13590.7200	3766.9114	0.3120	0.0865
46	94.4760	0.8250	14374.8000	4116.4346	0.3300	0.0945
47	94.5010	0.8500	15158.8800	4485.5622	0.3480	0.1030
48	94.5260	0.8750	15942.9600	4874.2940	0.3660	0.1119
49	94.5510	0.9000	16727.0400	5282.6298	0.3840	0.1213
50	108.3000	14.6490	16727.0400	235262.7028	0.3840	5.4009

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| Variable storage data for node | BN-6
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	93.9320	0.0000	4.3560	0.0000	0.0001	0.0000
2	93.9570	0.0250	150.8265	1.5068	0.0035	0.0000
3	93.9820	0.0500	297.2970	7.0058	0.0068	0.0002
4	94.0070	0.0750	443.7675	16.2082	0.0102	0.0004
5	94.0320	0.1000	590.2380	29.0898	0.0135	0.0007
6	94.0570	0.1250	736.7085	45.6428	0.0169	0.0010
7	94.0820	0.1500	883.1790	65.8638	0.0203	0.0015
8	94.1070	0.1750	1029.6495	89.7507	0.0236	0.0021
9	94.1320	0.2000	1176.1200	117.3026	0.0270	0.0027
10	94.1570	0.2250	1475.5950	150.3783	0.0339	0.0035
11	94.1820	0.2500	1775.0700	190.9540	0.0408	0.0044
12	94.2070	0.2750	2074.5450	239.0256	0.0476	0.0055
13	94.2320	0.3000	2374.0200	294.5906	0.0545	0.0068
14	94.2570	0.3250	2673.4950	357.6475	0.0614	0.0082
15	94.2820	0.3500	2972.9700	428.1952	0.0683	0.0098
16	94.3070	0.3750	3272.4450	506.2330	0.0751	0.0116
17	94.3320	0.4000	3571.9200	591.7602	0.0820	0.0136
18	94.3445	0.4125	3773.3850	637.6626	0.0866	0.0146
19	94.3570	0.4250	3974.8500	686.0836	0.0912	0.0158
20	94.3695	0.4375	4176.3150	737.0232	0.0959	0.0169
21	94.3820	0.4500	4377.7800	790.4814	0.1005	0.0181
22	94.3945	0.4625	4579.2450	846.4581	0.1051	0.0194
23	94.4070	0.4750	4780.7100	904.9533	0.1098	0.0208
24	94.4195	0.4875	4982.1750	965.9670	0.1144	0.0222
25	94.4320	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	94.4445	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	94.4570	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	94.4695	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	94.4820	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	94.4945	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	94.5070	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	94.5195	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	94.5320	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	94.5445	0.6125	7900.6950	1761.8875	0.1814	0.0404
35	94.5570	0.6250	8265.5100	1862.9177	0.1897	0.0428
36	94.5695	0.6375	8630.3250	1968.5084	0.1981	0.0452
37	94.5820	0.6500	8995.1400	2078.6597	0.2065	0.0477
38	94.5945	0.6625	9359.9550	2193.3715	0.2149	0.0504
39	94.6070	0.6750	9724.7700	2312.6438	0.2233	0.0531
40	94.6195	0.6875	10089.5850	2436.4765	0.2316	0.0559
41	94.6320	0.7000	10454.4000	2564.8697	0.2400	0.0589
42	94.6570	0.7250	11238.4800	2835.9716	0.2580	0.0651
43	94.6820	0.7500	12022.5600	3126.6795	0.2760	0.0718
44	94.7070	0.7750	12806.6400	3436.9929	0.2940	0.0789
45	94.7320	0.8000	13590.7200	3766.9114	0.3120	0.0865
46	94.7570	0.8250	14374.8000	4116.4346	0.3300	0.0945
47	94.7820	0.8500	15158.8800	4485.5622	0.3480	0.1030
48	94.8070	0.8750	15942.9600	4874.2940	0.3660	0.1119
49	94.8320	0.9000	16727.0400	5282.6298	0.3840	0.1213
50	106.2200	12.2880	16727.0400	195770.1613	0.3840	4.4943

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| Variable storage data for node | POND-7B
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	94.5950	0.0000	43.5600	0.0000	0.0010	0.0000
2	94.7200	0.1250	34722.7650	1499.8405	0.7971	0.0344
3	94.8450	0.2500	69401.9700	7883.7879	1.5933	0.1810
4	94.9700	0.3750	104081.1750	18653.5362	2.3894	0.4282
5	95.0950	0.5000	138760.3800	33779.2802	3.1855	0.7755
6	95.2200	0.6250	173439.5850	53251.5267	3.9816	1.2225
7	95.3450	0.7500	208118.7900	77066.0244	4.7778	1.7692
8	95.4700	0.8750	242797.9950	105220.4998	5.5739	2.4155
9	95.5950	1.0000	277477.2000	137713.5939	6.3700	3.1615
10	95.7200	1.1250	278784.0000	172479.8870	6.4000	3.9596
11	95.8450	1.2500	280090.8000	207409.5301	6.4300	4.7615
12	95.9700	1.3750	281397.6000	242502.5234	6.4600	5.5671
13	96.0950	1.5000	282704.4000	277758.8669	6.4900	6.3765
14	96.2200	1.6250	284011.2000	313178.5605	6.5200	7.1896
15	96.3450	1.7500	285318.0000	348761.6043	6.5500	8.0065
16	96.4700	1.8750	286624.8000	384507.9982	6.5800	8.8271
17	96.5950	2.0000	287931.6000	420417.7422	6.6100	9.6515
18	96.7200	2.1250	289238.4000	456490.8364	6.6400	10.4796
19	96.8450	2.2500	290545.2000	492727.2807	6.6700	11.3115
20	96.9700	2.3750	291852.0000	529127.0752	6.7000	12.1471
21	97.0950	2.5000	293158.8000	565690.2198	6.7300	12.9865
22	97.2200	2.6250	294465.6000	602416.7145	6.7600	13.8296
23	97.3450	2.7500	295772.4000	639306.5593	6.7900	14.6765
24	97.4700	2.8750	297079.2000	676359.7543	6.8200	15.5271
25	97.5950	3.0000	298386.0000	713576.2995	6.8500	16.3815
26	97.7200	3.1250	299692.8000	750956.1947	6.8800	17.2396
27	97.8450	3.2500	300999.6000	788499.4401	6.9100	18.1015
28	97.9700	3.3750	302306.4000	826206.0356	6.9400	18.9671
29	98.0950	3.5000	303613.2000	864075.9813	6.9700	19.8365
30	98.2200	3.6250	304920.0000	902109.2770	7.0000	20.7096
31	98.3450	3.7500	306226.8000	940305.9229	7.0300	21.5865
32	98.4700	3.8750	307533.6000	978665.9189	7.0600	22.4671
33	98.5950	4.0000	308840.4000	1.017189E+06	7.0900	23.3515
34	98.7200	4.1250	310201.6500	1.055879E+06	7.1212	24.2397
35	98.8450	4.2500	311562.9000	1.094740E+06	7.1525	25.1318
36	98.9700	4.3750	312924.1500	1.133770E+06	7.1837	26.0278
37	99.0950	4.5000	314285.4000	1.172971E+06	7.2150	26.9277
38	99.2200	4.6250	315646.6500	1.212341E+06	7.2462	27.8315
39	99.3450	4.7500	317007.9000	1.251882E+06	7.2775	28.7393
40	99.4700	4.8750	318369.1500	1.291593E+06	7.3087	29.6509
41	99.5950	5.0000	319730.4000	1.331474E+06	7.3400	30.5664
42	99.7200	5.1250	321146.1000	1.371529E+06	7.3725	31.4860
43	99.8450	5.2500	322561.8000	1.411761E+06	7.4050	32.4096
44	99.9700	5.3750	323977.5000	1.452170E+06	7.4375	33.3372
45	100.0950	5.5000	325393.2000	1.492755E+06	7.4700	34.2689
46	100.2200	5.6250	326808.9000	1.533518E+06	7.5025	35.2047
47	100.3450	5.7500	328224.6000	1.574457E+06	7.5350	36.1446
48	100.4700	5.8750	329640.3000	1.615574E+06	7.5675	37.0885
49	100.5950	6.0000	331056.0000	1.656867E+06	7.6000	38.0364
50	100.7200	6.1250	332471.7000	1.698338E+06	7.6325	38.9885
51	100.8450	6.2500	333887.4000	1.739985E+06	7.6650	39.9446
52	100.9700	6.3750	335303.1000	1.781810E+06	7.6975	40.9047
53	101.0950	6.5000	336718.8000	1.823811E+06	7.7300	41.8689
54	101.2200	6.6250	338134.5000	1.865989E+06	7.7625	42.8372

55	101.3450	6.7500	339550.2000	1.908345E+06	7.7950	43.8096
56	101.4700	6.8750	340965.9000	1.950877E+06	7.8275	44.7860
57	101.5950	7.0000	342381.6000	1.993586E+06	7.8600	45.7664
58	101.7200	7.1250	343797.3000	2.036472E+06	7.8925	46.7510
59	101.8450	7.2500	345213.0000	2.079535E+06	7.9250	47.7396
60	101.9700	7.3750	346628.7000	2.122775E+06	7.9575	48.7322
61	102.0950	7.5000	348044.4000	2.166192E+06	7.9900	49.7289
62	102.2200	7.6250	349460.1000	2.209786E+06	8.0225	50.7297
63	102.3450	7.7500	350875.8000	2.253557E+06	8.0550	51.7346
64	102.4700	7.8750	352291.5000	2.297505E+06	8.0875	52.7435
65	102.5950	8.0000	353707.2000	2.341630E+06	8.1200	53.7564
66	102.7200	8.1250	355122.9000	2.385932E+06	8.1525	54.7735
67	102.8450	8.2500	356538.6000	2.430411E+06	8.1850	55.7946
68	102.9700	8.3750	357954.3000	2.475067E+06	8.2175	56.8197
69	103.0950	8.5000	359370.0000	2.519899E+06	8.2500	57.8489
70	103.2200	8.6250	360785.7000	2.564909E+06	8.2825	58.8822
71	103.3450	8.7500	362201.4000	2.610096E+06	8.3150	59.9196
72	103.4700	8.8750	363617.1000	2.655459E+06	8.3475	60.9610
73	103.5950	9.0000	365032.8000	2.701000E+06	8.3800	62.0064
74	103.7200	9.1250	366502.9500	2.746721E+06	8.4138	63.0560
75	103.8450	9.2500	367973.1000	2.792626E+06	8.4475	64.1099
76	103.9700	9.3750	369443.2500	2.838714E+06	8.4813	65.1679
77	104.0950	9.5000	370913.4000	2.884986E+06	8.5150	66.2302
78	104.2200	9.6250	372383.5500	2.931442E+06	8.5488	67.2967
79	104.3450	9.7500	373853.7000	2.978082E+06	8.5825	68.3674
80	104.4700	9.8750	375323.8500	3.024906E+06	8.6163	69.4423
81	104.5950	10.0000	376794.0000	3.071913E+06	8.6500	70.5214
82	104.7200	10.1250	378264.1500	3.119104E+06	8.6837	71.6048
83	104.8450	10.2500	379734.3000	3.166479E+06	8.7175	72.6924
84	104.9700	10.3750	381204.4500	3.214038E+06	8.7513	73.7842
85	105.0950	10.5000	382674.6000	3.261780E+06	8.7850	74.8802
86	105.2200	10.6250	384144.7500	3.309706E+06	8.8187	75.9804
87	105.3450	10.7500	385614.9000	3.357816E+06	8.8525	77.0849
88	105.4700	10.8750	387085.0500	3.406110E+06	8.8863	78.1935
89	105.5950	11.0000	388555.2000	3.454587E+06	8.9200	79.3064
90	108.3000	13.7050	388555.2000	4.505629E+06	8.9200	103.4350

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| Variable storage data for node | BS-7
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	94.1010	0.0000	4.3560	0.0000	0.0001	0.0000
2	94.1260	0.0250	150.8265	1.5068	0.0035	0.0000
3	94.1510	0.0500	297.2970	7.0058	0.0068	0.0002
4	94.1760	0.0750	443.7675	16.2082	0.0102	0.0004
5	94.2010	0.1000	590.2380	29.0898	0.0135	0.0007
6	94.2260	0.1250	736.7085	45.6428	0.0169	0.0010
7	94.2510	0.1500	883.1790	65.8638	0.0203	0.0015
8	94.2760	0.1750	1029.6495	89.7507	0.0236	0.0021
9	94.3010	0.2000	1176.1200	117.3026	0.0270	0.0027
10	94.3260	0.2250	1475.5950	150.3783	0.0339	0.0035
11	94.3510	0.2500	1775.0700	190.9540	0.0408	0.0044
12	94.3760	0.2750	2074.5450	239.0256	0.0476	0.0055
13	94.4010	0.3000	2374.0200	294.5906	0.0545	0.0068
14	94.4260	0.3250	2673.4950	357.6475	0.0614	0.0082
15	94.4510	0.3500	2972.9700	428.1952	0.0683	0.0098
16	94.4760	0.3750	3272.4450	506.2330	0.0751	0.0116
17	94.5010	0.4000	3571.9200	591.7602	0.0820	0.0136
18	94.5135	0.4125	3773.3850	637.6626	0.0866	0.0146
19	94.5260	0.4250	3974.8500	686.0836	0.0912	0.0158
20	94.5385	0.4375	4176.3150	737.0232	0.0959	0.0169
21	94.5510	0.4500	4377.7800	790.4814	0.1005	0.0181
22	94.5635	0.4625	4579.2450	846.4581	0.1051	0.0194
23	94.5760	0.4750	4780.7100	904.9533	0.1098	0.0208
24	94.5885	0.4875	4982.1750	965.9670	0.1144	0.0222
25	94.6010	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	94.6135	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	94.6260	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	94.6385	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	94.6510	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	94.6635	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	94.6760	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	94.6885	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	94.7010	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	94.7135	0.6125	7900.6950	1761.8875	0.1814	0.0404
35	94.7260	0.6250	8265.5100	1862.9177	0.1897	0.0428
36	94.7385	0.6375	8630.3250	1968.5084	0.1981	0.0452
37	94.7510	0.6500	8995.1400	2078.6597	0.2065	0.0477
38	94.7635	0.6625	9359.9550	2193.3715	0.2149	0.0504
39	94.7760	0.6750	9724.7700	2312.6438	0.2233	0.0531
40	94.7885	0.6875	10089.5850	2436.4765	0.2316	0.0559
41	94.8010	0.7000	10454.4000	2564.8697	0.2400	0.0589
42	94.8260	0.7250	11238.4800	2835.9716	0.2580	0.0651
43	94.8510	0.7500	12022.5600	3126.6795	0.2760	0.0718
44	94.8760	0.7750	12806.6400	3436.9929	0.2940	0.0789
45	94.9010	0.8000	13590.7200	3766.9114	0.3120	0.0865
46	94.9260	0.8250	14374.8000	4116.4346	0.3300	0.0945
47	94.9510	0.8500	15158.8800	4485.5622	0.3480	0.1030
48	94.9760	0.8750	15942.9600	4874.2940	0.3660	0.1119
49	95.0010	0.9000	16727.0400	5282.6298	0.3840	0.1213
50	108.4500	14.3490	16727.0400	230244.5908	0.3840	5.2857

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| Variable storage data for node | BN-5
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	94.7320	0.0000	4.3560	0.0000	0.0001	0.0000
2	94.7570	0.0250	150.8265	1.5068	0.0035	0.0000
3	94.7820	0.0500	297.2970	7.0058	0.0068	0.0002
4	94.8070	0.0750	443.7675	16.2082	0.0102	0.0004
5	94.8320	0.1000	590.2380	29.0898	0.0135	0.0007
6	94.8570	0.1250	736.7085	45.6428	0.0169	0.0010
7	94.8820	0.1500	883.1790	65.8638	0.0203	0.0015
8	94.9070	0.1750	1029.6495	89.7507	0.0236	0.0021
9	94.9320	0.2000	1176.1200	117.3026	0.0270	0.0027
10	94.9570	0.2250	1475.5950	150.3783	0.0339	0.0035
11	94.9820	0.2500	1775.0700	190.9540	0.0408	0.0044
12	95.0070	0.2750	2074.5450	239.0256	0.0476	0.0055
13	95.0320	0.3000	2374.0200	294.5906	0.0545	0.0068
14	95.0570	0.3250	2673.4950	357.6475	0.0614	0.0082
15	95.0820	0.3500	2972.9700	428.1952	0.0683	0.0098
16	95.1070	0.3750	3272.4450	506.2330	0.0751	0.0116
17	95.1320	0.4000	3571.9200	591.7602	0.0820	0.0136
18	95.1445	0.4125	3773.3850	637.6626	0.0866	0.0146
19	95.1570	0.4250	3974.8500	686.0836	0.0912	0.0158
20	95.1695	0.4375	4176.3150	737.0232	0.0959	0.0169
21	95.1820	0.4500	4377.7800	790.4814	0.1005	0.0181
22	95.1945	0.4625	4579.2450	846.4581	0.1051	0.0194
23	95.2070	0.4750	4780.7100	904.9533	0.1098	0.0208
24	95.2195	0.4875	4982.1750	965.9670	0.1144	0.0222
25	95.2320	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	95.2445	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	95.2570	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	95.2695	0.5375	6065.7300	1240.4008	0.1392	0.0285

29	95.2820	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	95.2945	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	95.3070	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	95.3195	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	95.3320	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	95.3445	0.6125	7900.6950	1761.8875	0.1814	0.0404
35	95.3570	0.6250	8265.5100	1862.9177	0.1897	0.0428
36	95.3695	0.6375	8630.3250	1968.5084	0.1981	0.0452
37	95.3820	0.6500	8995.1400	2078.6597	0.2065	0.0477
38	95.3945	0.6625	9359.9550	2193.3715	0.2149	0.0504
39	95.4070	0.6750	9724.7700	2312.6438	0.2233	0.0531
40	95.4195	0.6875	10089.5850	2436.4765	0.2316	0.0559
41	95.4320	0.7000	10454.4000	2564.8697	0.2400	0.0589
42	95.4570	0.7250	11238.4800	2835.9716	0.2580	0.0651
43	95.4820	0.7500	12022.5600	3126.6795	0.2760	0.0718
44	95.5070	0.7750	12806.6400	3436.9929	0.2940	0.0789
45	95.5320	0.8000	13590.7200	3766.9114	0.3120	0.0865
46	95.5570	0.8250	14374.8000	4116.4346	0.3300	0.0945
47	95.5820	0.8500	15158.8800	4485.5622	0.3480	0.1030
48	95.6070	0.8750	15942.9600	4874.2940	0.3660	0.1119
49	95.6320	0.9000	16727.0400	5282.6298	0.3840	0.1213
50	106.4700	11.7380	16727.0400	186570.2893	0.3840	4.2831

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| Variable storage data for node | BS-6
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	94.5010	0.0000	4.3560	0.0000	0.0001	0.0000
2	94.5260	0.0250	150.8265	1.5068	0.0035	0.0000
3	94.5510	0.0500	297.2970	7.0058	0.0068	0.0002
4	94.5760	0.0750	443.7675	16.2082	0.0102	0.0004
5	94.6010	0.1000	590.2380	29.0898	0.0135	0.0007
6	94.6260	0.1250	736.7085	45.6428	0.0169	0.0010
7	94.6510	0.1500	883.1790	65.8638	0.0203	0.0015
8	94.6760	0.1750	1029.6495	89.7507	0.0236	0.0021
9	94.7010	0.2000	1176.1200	117.3026	0.0270	0.0027
10	94.7260	0.2250	1475.5950	150.3783	0.0339	0.0035
11	94.7510	0.2500	1775.0700	190.9540	0.0408	0.0044
12	94.7760	0.2750	2074.5450	239.0256	0.0476	0.0055
13	94.8010	0.3000	2374.0200	294.5906	0.0545	0.0068
14	94.8260	0.3250	2673.4950	357.6475	0.0614	0.0082
15	94.8510	0.3500	2972.9700	428.1952	0.0683	0.0098
16	94.8760	0.3750	3272.4450	506.2330	0.0751	0.0116
17	94.9010	0.4000	3571.9200	591.7602	0.0820	0.0136
18	94.9135	0.4125	3773.3850	637.6626	0.0866	0.0146
19	94.9260	0.4250	3974.8500	686.0836	0.0912	0.0158
20	94.9385	0.4375	4176.3150	737.0232	0.0959	0.0169
21	94.9510	0.4500	4377.7800	790.4814	0.1005	0.0181
22	94.9635	0.4625	4579.2450	846.4581	0.1051	0.0194
23	94.9760	0.4750	4780.7100	904.9533	0.1098	0.0208
24	94.9885	0.4875	4982.1750	965.9670	0.1144	0.0222
25	95.0010	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	95.0135	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	95.0260	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	95.0385	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	95.0510	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	95.0635	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	95.0760	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	95.0885	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	95.1010	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	95.1135	0.6125	7900.6950	1761.8875	0.1814	0.0404
35	95.1260	0.6250	8265.5100	1862.9177	0.1897	0.0428
36	95.1385	0.6375	8630.3250	1968.5084	0.1981	0.0452
37	95.1510	0.6500	8995.1400	2078.6597	0.2065	0.0477
38	95.1635	0.6625	9359.9550	2193.3715	0.2149	0.0504
39	95.1760	0.6750	9724.7700	2312.6438	0.2233	0.0531
40	95.1885	0.6875	10089.5850	2436.4765	0.2316	0.0559
41	95.2010	0.7000	10454.4000	2564.8697	0.2400	0.0589
42	95.2260	0.7250	11238.4800	2835.9716	0.2580	0.0651
43	95.2510	0.7500	12022.5600	3126.6795	0.2760	0.0718
44	95.2760	0.7750	12806.6400	3436.9929	0.2940	0.0789
45	95.3010	0.8000	13590.7200	3766.9114	0.3120	0.0865
46	95.3260	0.8250	14374.8000	4116.4346	0.3300	0.0945
47	95.3510	0.8500	15158.8800	4485.5622	0.3480	0.1030
48	95.3760	0.8750	15942.9600	4874.2940	0.3660	0.1119
49	95.4010	0.9000	16727.0400	5282.6298	0.3840	0.1213
50	108.4500	13.9490	16727.0400	223553.7748	0.3840	5.1321

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| Variable storage data for node | BS-5
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	94.9010	0.0000	4.3560	0.0000	0.0001	0.0000
2	94.9260	0.0250	150.8265	1.5068	0.0035	0.0000
3	94.9510	0.0500	297.2970	7.0058	0.0068	0.0002
4	94.9760	0.0750	443.7675	16.2082	0.0102	0.0004
5	95.0010	0.1000	590.2380	29.0898	0.0135	0.0007
6	95.0260	0.1250	736.7085	45.6428	0.0169	0.0010
7	95.0510	0.1500	883.1790	65.8638	0.0203	0.0015
8	95.0760	0.1750	1029.6495	89.7507	0.0236	0.0021
9	95.1010	0.2000	1176.1200	117.3026	0.0270	0.0027
10	95.1260	0.2250	1475.5950	150.3783	0.0339	0.0035
11	95.1510	0.2500	1775.0700	190.9540	0.0408	0.0044
12	95.1760	0.2750	2074.5450	239.0256	0.0476	0.0055
13	95.2010	0.3000	2374.0200	294.5906	0.0545	0.0068
14	95.2260	0.3250	2673.4950	357.6475	0.0614	0.0082
15	95.2510	0.3500	2972.9700	428.1952	0.0683	0.0098
16	95.2760	0.3750	3272.4450	506.2330	0.0751	0.0116
17	95.3010	0.4000	3571.9200	591.7602	0.0820	0.0136
18	95.3135	0.4125	3773.3850	637.6626	0.0866	0.0146
19	95.3260	0.4250	3974.8500	686.0836	0.0912	0.0158
20	95.3385	0.4375	4176.3150	737.0232	0.0959	0.0169
21	95.3510	0.4500	4377.7800	790.4814	0.1005	0.0181
22	95.3635	0.4625	4579.2450	846.4581	0.1051	0.0194
23	95.3760	0.4750	4780.7100	904.9533	0.1098	0.0208
24	95.3885	0.4875	4982.1750	965.9670	0.1144	0.0222
25	95.4010	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	95.4135	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	95.4260	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	95.4385	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	95.4510	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	95.4635	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	95.4760	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	95.4885	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	95.5010	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	95.5135	0.6125	7900.6950	1761.8875	0.1814	0.0404
35	95.5260	0.6250	8265.5100	1862.9177	0.1897	0.0428
36	95.5385	0.6375	8630.3250	1968.5084	0.1981	0.0452
37	95.5510	0.6500	8995.1400	2078.6597	0.2065	0.0477
38	95.5635	0.6625	9359.9550	2193.3715	0.2149	0.0504
39	95.5760	0.6750	9724.7700	2312.6438	0.2233	0.0531
40	95.5885	0.6875	10089.5850	2436.4765	0.2316	0.0559
41	95.6010	0.7000	10454.4000	2564.8697	0.2400	0.0589
42	95.6260	0.7250	11238.4800	2835.9716	0.2580	0.0651

43	95.6510	0.7500	12022.5600	3126.6795	0.2760	0.0718
44	95.6760	0.7750	12806.6400	3436.9929	0.2940	0.0789
45	95.7010	0.8000	13590.7200	3766.9114	0.3120	0.0865
46	95.7260	0.8250	14374.8000	4116.4346	0.3300	0.0945
47	95.7510	0.8500	15158.8800	4485.5622	0.3480	0.1030
48	95.7760	0.8750	15942.9600	4874.2940	0.3660	0.1119
49	95.8010	0.9000	16727.0400	5282.6298	0.3840	0.1213
50	108.4500	13.5490	16727.0400	216862.9588	0.3840	4.9785

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| Variable storage data for node | BN-4
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	95.2320	0.0000	4.3560	0.0000	0.0001	0.0000
2	95.2570	0.0250	150.8265	1.5068	0.0035	0.0000
3	95.2820	0.0500	297.2970	7.0058	0.0068	0.0002
4	95.3070	0.0750	443.7675	16.2082	0.0102	0.0004
5	95.3320	0.1000	590.2380	29.0898	0.0135	0.0007
6	95.3570	0.1250	736.7085	45.6428	0.0169	0.0010
7	95.3820	0.1500	883.1790	65.8638	0.0203	0.0015
8	95.4070	0.1750	1029.6495	89.7507	0.0236	0.0021
9	95.4320	0.2000	1176.1200	117.3026	0.0270	0.0027
10	95.4570	0.2250	1475.5950	150.3783	0.0339	0.0035
11	95.4820	0.2500	1775.0700	190.9540	0.0408	0.0044
12	95.5070	0.2750	2074.5450	239.0256	0.0476	0.0055
13	95.5320	0.3000	2374.0200	294.5906	0.0545	0.0068
14	95.5570	0.3250	2673.4950	357.6475	0.0614	0.0082
15	95.5820	0.3500	2972.9700	428.1952	0.0683	0.0098
16	95.6070	0.3750	3272.4450	506.2330	0.0751	0.0116
17	95.6320	0.4000	3571.9200	591.7602	0.0820	0.0136
18	95.6445	0.4125	3773.3850	637.6626	0.0866	0.0146
19	95.6570	0.4250	3974.8500	686.0836	0.0912	0.0158
20	95.6695	0.4375	4176.3150	737.0232	0.0959	0.0169
21	95.6820	0.4500	4377.7800	790.4814	0.1005	0.0181
22	95.6945	0.4625	4579.2450	846.4581	0.1051	0.0194
23	95.7070	0.4750	4780.7100	904.9533	0.1098	0.0208
24	95.7195	0.4875	4982.1750	965.9670	0.1144	0.0222
25	95.7320	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	95.7445	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	95.7570	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	95.7695	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	95.7820	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	95.7945	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	95.8070	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	95.8195	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	95.8320	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	95.8445	0.6125	7900.6950	1761.8875	0.1814	0.0404
35	95.8570	0.6250	8265.5100	1862.9177	0.1897	0.0428
36	95.8695	0.6375	8630.3250	1968.5084	0.1981	0.0452
37	95.8820	0.6500	8995.1400	2078.6597	0.2065	0.0477
38	95.8945	0.6625	9359.9550	2193.3715	0.2149	0.0504
39	95.9070	0.6750	9724.7700	2312.6438	0.2233	0.0531
40	95.9195	0.6875	10089.5850	2436.4765	0.2316	0.0559
41	95.9320	0.7000	10454.4000	2564.8697	0.2400	0.0589
42	95.9570	0.7250	11238.4800	2835.9716	0.2580	0.0651
43	95.9820	0.7500	12022.5600	3126.6795	0.2760	0.0718
44	96.0070	0.7750	12806.6400	3436.9929	0.2940	0.0789
45	96.0320	0.8000	13590.7200	3766.9114	0.3120	0.0865
46	96.0570	0.8250	14374.8000	4116.4346	0.3300	0.0945
47	96.0820	0.8500	15158.8800	4485.5622	0.3480	0.1030
48	96.1070	0.8750	15942.9600	4874.2940	0.3660	0.1119
49	96.1320	0.9000	16727.0400	5282.6298	0.3840	0.1213
50	106.1700	10.9380	16727.0400	173188.6573	0.3840	3.9759

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| Variable storage data for node | BS-4
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	95.4010	0.0000	4.3560	0.0000	0.0001	0.0000
2	95.4260	0.0250	150.8265	1.5068	0.0035	0.0000
3	95.4510	0.0500	297.2970	7.0058	0.0068	0.0002
4	95.4760	0.0750	443.7675	16.2082	0.0102	0.0004
5	95.5010	0.1000	590.2380	29.0898	0.0135	0.0007
6	95.5260	0.1250	736.7085	45.6428	0.0169	0.0010
7	95.5510	0.1500	883.1790	65.8638	0.0203	0.0015
8	95.5760	0.1750	1029.6495	89.7507	0.0236	0.0021
9	95.6010	0.2000	1176.1200	117.3026	0.0270	0.0027
10	95.6260	0.2250	1475.5950	150.3783	0.0339	0.0035
11	95.6510	0.2500	1775.0700	190.9540	0.0408	0.0044
12	95.6760	0.2750	2074.5450	239.0256	0.0476	0.0055
13	95.7010	0.3000	2374.0200	294.5906	0.0545	0.0068
14	95.7260	0.3250	2673.4950	357.6475	0.0614	0.0082
15	95.7510	0.3500	2972.9700	428.1952	0.0683	0.0098
16	95.7760	0.3750	3272.4450	506.2330	0.0751	0.0116
17	95.8010	0.4000	3571.9200	591.7602	0.0820	0.0136
18	95.8135	0.4125	3773.3850	637.6626	0.0866	0.0146
19	95.8260	0.4250	3974.8500	686.0836	0.0912	0.0158
20	95.8385	0.4375	4176.3150	737.0232	0.0959	0.0169
21	95.8510	0.4500	4377.7800	790.4814	0.1005	0.0181
22	95.8635	0.4625	4579.2450	846.4581	0.1051	0.0194
23	95.8760	0.4750	4780.7100	904.9533	0.1098	0.0208
24	95.8885	0.4875	4982.1750	965.9670	0.1144	0.0222
25	95.9010	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	95.9135	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	95.9260	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	95.9385	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	95.9510	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	95.9635	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	95.9760	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	95.9885	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	96.0010	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	96.0135	0.6125	7900.6950	1761.8875	0.1814	0.0404
35	96.0260	0.6250	8265.5100	1862.9177	0.1897	0.0428
36	96.0385	0.6375	8630.3250	1968.5084	0.1981	0.0452
37	96.0510	0.6500	8995.1400	2078.6597	0.2065	0.0477
38	96.0635	0.6625	9359.9550	2193.3715	0.2149	0.0504
39	96.0760	0.6750	9724.7700	2312.6438	0.2233	0.0531
40	96.0885	0.6875	10089.5850	2436.4765	0.2316	0.0559
41	96.1010	0.7000	10454.4000	2564.8697	0.2400	0.0589
42	96.1260	0.7250	11238.4800	2835.9716	0.2580	0.0651
43	96.1510	0.7500	12022.5600	3126.6795	0.2760	0.0718
44	96.1760	0.7750	12806.6400	3436.9929	0.2940	0.0789
45	96.2010	0.8000	13590.7200	3766.9114	0.3120	0.0865
46	96.2260	0.8250	14374.8000	4116.4346	0.3300	0.0945
47	96.2510	0.8500	15158.8800	4485.5622	0.3480	0.1030
48	96.2760	0.8750	15942.9600	4874.2940	0.3660	0.1119
49	96.3010	0.9000	16727.0400	5282.6298	0.3840	0.1213
50	108.1500	12.7490	16727.0400	203481.3268	0.3840	4.6713

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| Variable storage data for node | POND-6A
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft

1	91.0000	0.0000	43.5600	0.0000	0.0010	0.0000
2	91.1250	0.1250	38969.8650	1679.8465	0.8946	0.0386
3	91.2500	0.2500	77896.1700	8844.9442	1.7882	0.2031
4	91.3750	0.3750	116822.4750	20932.9728	2.6819	0.4806
5	91.5000	0.5000	155748.7800	37910.4704	3.5755	0.8703
6	91.6250	0.6250	194675.0850	59766.7798	4.4691	1.3721
7	91.7500	0.7500	233601.3900	86497.1285	5.3628	1.9857
8	91.8750	0.8750	272527.6950	118098.9645	6.2564	2.7112
9	92.0000	1.0000	311454.0000	154570.7622	7.1500	3.5485
10	92.1250	1.1250	312760.8000	193584.1587	7.1800	4.4441
11	92.2500	1.2500	314067.6000	232760.9053	7.2100	5.3435
12	92.3750	1.3750	315374.4000	272101.0021	7.2400	6.2466
13	92.5000	1.5000	316681.2000	311604.4489	7.2700	7.1535
14	92.6250	1.6250	317988.0000	351271.2459	7.3000	8.0641
15	92.7500	1.7500	319294.8000	391101.3930	7.3300	8.9785
16	92.8750	1.8750	320601.6000	431094.8902	7.3600	9.8966
17	93.0000	2.0000	321908.4000	471251.7375	7.3900	10.8185
18	93.1250	2.1250	323269.6500	511575.3357	7.4212	11.7442
19	93.2500	2.2500	324630.9000	552069.0903	7.4525	12.6738
20	93.3750	2.3750	325992.1500	592733.0013	7.4837	13.6073
21	93.5000	2.5000	327353.4000	633567.0686	7.5150	14.5447
22	93.6250	2.6250	328714.6500	674571.2923	7.5462	15.4860
23	93.7500	2.7500	330075.9000	715745.6724	7.5775	16.4313
24	93.8750	2.8750	331437.1500	757090.2088	7.6087	17.3804
25	94.0000	3.0000	332798.4000	798604.9016	7.6400	18.3334
26	94.1250	3.1250	334214.1000	840293.1516	7.6725	19.2905
27	94.2500	3.2500	335629.8000	882158.3642	7.7050	20.2516
28	94.3750	3.3750	337045.5000	924200.5394	7.7375	21.2167
29	94.5000	3.5000	338461.2000	966419.6772	7.7700	22.1859
30	94.6250	3.6250	339876.9000	1.008816E+06	7.8025	23.1592
31	94.7500	3.7500	341292.6000	1.051389E+06	7.8350	24.1366
32	94.8750	3.8750	342708.3000	1.094139E+06	7.8675	25.1180
33	95.0000	4.0000	344124.0000	1.137066E+06	7.9000	26.1034
34	95.1250	4.1250	345485.2500	1.180166E+06	7.9312	27.0929
35	95.2500	4.2500	346846.5000	1.223437E+06	7.9625	28.0863
36	95.3750	4.3750	348207.7500	1.266878E+06	7.9937	29.0835
37	95.5000	4.5000	349569.0000	1.310489E+06	8.0250	30.0847
38	95.6250	4.6250	350930.2500	1.354270E+06	8.0563	31.0898
39	95.7500	4.7500	352291.5000	1.398222E+06	8.0875	32.0987
40	95.8750	4.8750	353652.7500	1.442343E+06	8.1188	33.1116
41	96.0000	5.0000	355014.0000	1.486635E+06	8.1500	34.1284
42	96.1250	5.1250	356429.7000	1.531100E+06	8.1825	35.1492
43	96.2500	5.2500	357845.4000	1.575742E+06	8.2150	36.1741
44	96.3750	5.3750	359261.1000	1.620561E+06	8.2475	37.2030
45	96.5000	5.5000	360676.8000	1.665557E+06	8.2800	38.2359
46	96.6250	5.6250	362092.5000	1.710730E+06	8.3125	39.2730
47	96.7500	5.7500	363508.2000	1.756080E+06	8.3450	40.3141
48	96.8750	5.8750	364923.9000	1.801607E+06	8.3775	41.3592
49	97.0000	6.0000	366339.6000	1.847311E+06	8.4100	42.4084
50	97.1250	6.1250	367809.7500	1.893196E+06	8.4437	43.4618
51	97.2500	6.2500	369279.9000	1.939264E+06	8.4775	44.5194
52	97.3750	6.3750	370750.0500	1.985515E+06	8.5113	45.5812
53	97.5000	6.5000	372220.2000	2.031951E+06	8.5450	46.6472
54	97.6250	6.6250	373690.3500	2.078570E+06	8.5787	47.7174
55	97.7500	6.7500	375160.5000	2.125374E+06	8.6125	48.7919
56	97.8750	6.8750	376630.6500	2.172360E+06	8.6463	49.8705
57	98.0000	7.0000	378100.8000	2.219531E+06	8.6800	50.9534
58	98.1250	7.1250	379516.5000	2.266882E+06	8.7125	52.0405
59	98.2500	7.2500	380932.2000	2.314410E+06	8.7450	53.1315
60	98.3750	7.3750	382347.9000	2.362115E+06	8.7775	54.2267
61	98.5000	7.5000	383763.6000	2.409997E+06	8.8100	55.3259
62	98.6250	7.6250	385179.3000	2.458056E+06	8.8425	56.4292
63	98.7500	7.7500	386595.0000	2.506292E+06	8.8750	57.5365
64	98.8750	7.8750	388010.7000	2.554705E+06	8.9075	58.6480
65	99.0000	8.0000	389426.4000	2.603295E+06	8.9400	59.7634
66	99.1250	8.1250	390896.5500	2.652065E+06	8.9737	60.8830
67	99.2500	8.2500	392366.7000	2.701019E+06	9.0075	62.0069
68	99.3750	8.3750	393836.8500	2.750156E+06	9.0412	63.1349
69	99.5000	8.5000	395307.0000	2.799478E+06	9.0750	64.2672
70	99.6250	8.6250	396777.1500	2.848983E+06	9.1088	65.4037
71	99.7500	8.7500	398247.3000	2.898672E+06	9.1425	66.5444
72	99.8750	8.8750	399717.4500	2.948545E+06	9.1763	67.6893
73	100.0000	9.0000	401187.6000	2.998601E+06	9.2100	68.8384
74	100.1250	9.1250	402657.7500	3.048842E+06	9.2438	69.9918
75	100.2500	9.2500	404127.9000	3.099266E+06	9.2775	71.1494
76	100.3750	9.3750	405598.0500	3.149874E+06	9.3113	72.3111
77	100.5000	9.5000	407068.2000	3.200665E+06	9.3450	73.4772
78	100.6250	9.6250	408538.3500	3.251641E+06	9.3788	74.6474
79	100.7500	9.7500	410008.5000	3.302800E+06	9.4125	75.8218
80	100.8750	9.8750	411478.6500	3.354143E+06	9.4463	77.0005
81	101.0000	10.0000	412948.8000	3.405668E+06	9.4800	78.1834
82	102.5000	11.5000	412948.8000	4.025092E+06	9.4800	92.4034

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| Variable storage data for node | BW8DET
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	87.7500	0.0000	43.5600	0.0000	0.0010	0.0000
2	87.8750	0.1250	1453.8150	72.8761	0.0334	0.0017
3	88.0000	0.2500	2864.0700	337.8107	0.0658	0.0078
4	88.1250	0.3750	4274.3250	781.0293	0.0981	0.0179
5	88.2500	0.5000	5684.5800	1401.3701	0.1305	0.0322
6	88.3750	0.6250	7094.8350	2198.4575	0.1629	0.0505
7	88.5000	0.7500	8505.0900	3172.1221	0.1953	0.0728
8	88.6250	0.8750	9915.3450	4322.2729	0.2276	0.0992
9	88.7500	1.0000	11325.6000	5648.8556	0.2600	0.1297
10	88.8750	1.1250	11543.4000	7078.1465	0.2650	0.1625
11	89.0000	1.2500	11761.2000	8534.6628	0.2700	0.1959
12	89.1250	1.3750	11979.0000	10018.4045	0.2750	0.2300
13	89.2500	1.5000	12196.8000	11529.3715	0.2800	0.2647
14	89.3750	1.6250	12414.6000	13067.5639	0.2850	0.3000
15	89.5000	1.7500	12632.4000	14632.9817	0.2900	0.3359
16	89.6250	1.8750	12850.2000	16225.6248	0.2950	0.3725
17	89.7500	2.0000	13068.0000	17845.4933	0.3000	0.4097
18	89.8750	2.1250	13340.2500	19495.9796	0.3062	0.4476
19	90.0000	2.2500	13612.5000	21180.4979	0.3125	0.4862
20	90.1250	2.3750	13884.7500	22899.0479	0.3187	0.5257
21	90.2500	2.5000	14157.0000	24651.6298	0.3250	0.5659
22	90.3750	2.6250	14429.2500	26438.2434	0.3312	0.6069
23	90.5000	2.7500	14701.5000	28258.8887	0.3375	0.6487
24	90.6250	2.8750	14973.7500	30113.5659	0.3438	0.6913
25	90.7500	3.0000	15246.0000	32002.2747	0.3500	0.7347
26	90.8750	3.1250	15518.2500	33925.0152	0.3562	0.7788
27	91.0000	3.2500	15790.5000	35881.7874	0.3625	0.8237
28	91.1250	3.3750	16062.7500	37872.5913	0.3688	0.8694
29	91.2500	3.5000	16335.0000	39897.4269	0.3750	0.9159
30	91.3750	3.6250	16607.2500	41956.2940	0.3812	0.9632
31	91.5000	3.7500	16879.5000	44049.1929	0.3875	1.0112
32	91.6250	3.8750	17151.7500	46176.1233	0.3938	1.0601
33	91.7500	4.0000	17424.0000	48337.0853	0.4000	1.1097
34	91.8750	4.1250	17750.7000	50535.4725	0.4075	1.1601
35	92.0000	4.2500	18077.4000	52774.6977	0.4150	1.2115
36	92.1250	4.3750	18404.1000	55054.7610	0.4225	1.2639
37	92.2500	4.5000	18730.8000	57375.6623	0.4300	1.3172
38	92.3750	4.6250	19057.5000	59737.4016	0.4375	1.3714

39	92.5000	4.7500	19384.2000	62139.9789	0.4450	1.4265
40	92.6250	4.8750	19710.9000	64583.3942	0.4525	1.4826
41	92.7500	5.0000	20037.6000	67067.6475	0.4600	1.5397
42	92.8750	5.1250	20364.3000	69592.7388	0.4675	1.5976
43	93.0000	5.2500	20691.0000	72158.6679	0.4750	1.6565
44	93.1250	5.3750	21017.7000	74765.4350	0.4825	1.7164
45	93.2500	5.5000	21344.4000	77413.0400	0.4900	1.7772
46	93.3750	5.6250	21671.1000	80101.4829	0.4975	1.8389
47	93.5000	5.7500	21997.8000	82830.7637	0.5050	1.9015
48	93.6250	5.8750	22324.5000	85600.8824	0.5125	1.9651
49	93.7500	6.0000	22651.2000	88411.8389	0.5200	2.0297
50	93.8750	6.1250	22977.9000	91263.6333	0.5275	2.0951
51	94.0000	6.2500	23304.6000	94156.2655	0.5350	2.1615
52	94.1250	6.3750	23631.3000	97089.7356	0.5425	2.2289
53	94.2500	6.5000	23958.0000	100064.0435	0.5500	2.2972
54	94.3750	6.6250	24284.7000	103079.1892	0.5575	2.3664
55	94.5000	6.7500	24611.4000	106135.1727	0.5650	2.4365
56	94.6250	6.8750	24938.1000	109231.9940	0.5725	2.5076
57	94.7500	7.0000	25264.8000	112369.6531	0.5800	2.5797
58	94.8750	7.1250	25645.9500	115551.5453	0.5887	2.6527
59	95.0000	7.2500	26027.1000	118781.0816	0.5975	2.7268
60	95.1250	7.3750	26408.2500	122058.2621	0.6062	2.8021
61	95.2500	7.5000	26789.4000	125383.0868	0.6150	2.8784
62	95.3750	7.6250	27170.5500	128755.5556	0.6238	2.9558
63	95.5000	7.7500	27551.7000	132175.6686	0.6325	3.0343
64	95.6250	7.8750	27932.8500	135643.4257	0.6412	3.1139
65	95.7500	8.0000	28314.0000	139158.8269	0.6500	3.1946
66	95.8750	8.1250	28695.1500	142721.8722	0.6588	3.2764
67	96.0000	8.2500	29076.3000	146332.5617	0.6675	3.3593
68	96.1250	8.3750	29457.4500	149990.8952	0.6763	3.4433
69	96.2500	8.5000	29838.6000	153696.8728	0.6850	3.5284
70	96.3750	8.6250	30219.7500	157450.4945	0.6937	3.6146
71	96.5000	8.7500	30600.9000	161251.7602	0.7025	3.7018
72	96.6250	8.8750	30982.0500	165100.6700	0.7112	3.7902
73	96.7500	9.0000	31363.2000	168997.2239	0.7200	3.8796
74	96.8750	9.1250	31798.8000	172944.8176	0.7300	3.9703
75	97.0000	9.2500	32234.4000	176946.8617	0.7400	4.0621
76	97.1250	9.3750	32670.0000	181003.3563	0.7500	4.1553
77	97.2500	9.5000	33105.6000	185114.3012	0.7600	4.2496
78	97.3750	9.6250	33541.2000	189279.6965	0.7700	4.3453
79	97.5000	9.7500	33976.8000	193499.5423	0.7800	4.4421
80	97.6250	9.8750	34412.4000	197773.8384	0.7900	4.5403
81	97.7500	10.0000	34848.0000	202102.5848	0.8000	4.6396
82	97.8750	10.1250	35229.1500	206482.3851	0.8087	4.7402
83	98.0000	10.2500	35610.3000	210909.8294	0.8175	4.8418
84	98.1250	10.3750	35991.4500	215384.9176	0.8263	4.9446
85	98.2500	10.5000	36372.6000	219907.6498	0.8350	5.0484
86	98.3750	10.6250	36753.7500	224478.0260	0.8438	5.1533
87	98.5000	10.7500	37134.9000	229096.0462	0.8525	5.2593
88	98.6250	10.8750	37516.0500	233761.7103	0.8612	5.3664
89	98.7500	11.0000	37897.2000	238475.0183	0.8700	5.4746
90	98.8750	11.1250	38332.8000	243239.3674	0.8800	5.5840
91	99.0000	11.2500	38768.4000	248058.1667	0.8900	5.6946
92	99.1250	11.3750	39204.0000	252931.4164	0.9000	5.8065
93	99.2500	11.5000	39639.6000	257859.1163	0.9100	5.9196
94	99.3750	11.6250	40075.2000	262841.2665	0.9200	6.0340
95	99.5000	11.7500	40510.8000	267877.8670	0.9300	6.1496
96	99.6250	11.8750	40946.4000	272968.9177	0.9400	6.2665
97	99.7500	12.0000	41382.0000	278114.4187	0.9500	6.3846
98	99.8750	12.1250	41872.0500	283317.7668	0.9612	6.5041
99	100.0000	12.2500	42362.1000	288582.3715	0.9725	6.6249
100	100.1250	12.3750	42852.1500	293908.2328	0.9838	6.7472
101	100.2500	12.5000	43342.2000	299295.3506	0.9950	6.8709
102	100.3750	12.6250	43832.2500	304743.7250	1.0063	6.9960
103	100.5000	12.7500	44322.3000	310253.3560	1.0175	7.1224
104	100.6250	12.8750	44812.3500	315824.2436	1.0288	7.2503
105	100.7500	13.0000	45302.4000	321456.3877	1.0400	7.3796
106	102.5000	14.7500	45302.4000	400735.5877	1.0400	9.1996

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| New Pump Data Fields for PBSJ and Miami/Dade |
| Pump Name/Upstream Node/Dnstream Node/DataPt/Depth/Flow |
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PumpSenate	SNT01	CS-4	1	0.000	0.000	2	3.000	50.000
			3	20.000	128.000			

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| Special Pump Data Conduits for PBSJ |
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Conduit Name	Diameter ft or m	Length ft or m	Rough -ness	Entrance Loss K	Exit Loss K	Valve Loss K	Bend Loss K	Loss Coefft	Preissman Sf*L	Preissman SlotWidth
========	=======	=======	======	======	======	======	======	======	======	======

Pump Name	Upstream Node	Dnstream Node	Minor Loss
Senate	SNT01	CS-4	0.0000

Pt.	Flow Rate,	Original Head,	Modified Head	Force Main
1	0.000	0.000	0.000	0.000
2	50.000	3.000	3.000	3.000
3	128.000	20.000	20.000	20.000

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| Special Pump Data Conduits for PBSJ |
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Conduit Name	Maximum # of Pump Iterations	Pump Underrelaxation Parameter(0.25-0.85)
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| FREE OUTFALL DATA (DATA GROUP I1) |
| BOUNDARY CONDITION ON DATA GROUP J1 |
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Outfall at Junction....E135-01 has boundary condition number... 1

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| INTERNAL CONNECTIVITY INFORMATION |
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CONDUIT	JUNCTION	JUNCTION
Senate	SNT01	CS-4
FREE # 1	E135-01	BOUNDARY

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| Boundary Condition Information |
| Data Groups J1-J4 |
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Table E9 - JUNCTION SUMMARY STATISTICS
The Maximum area is only the area of the node, it does not include the area of the surrounding conduits

Junction Name	Ground Elevation feet	Uppermost PipeCrown Elevation feet	Maximum Junction Elevation feet	Time of Occurence Hr.	Min.	Feet of Surcharge at Max Elevation	Freeboard of node feet	Maximum Junction Area ft^2	Maximum Gutter Depth feet	Maximum Gutter Width feet	Maximum Gutter Velocity ft/s
E135-01	102.0800	95.1900	102.8800	20	59	7.6900	0.0000	11127.705	0.0000	0.0000	0.0000
CN-J11	101.9400	95.2400	102.8804	21	1	7.6404	0.0000	12805.438	0.0000	0.0000	0.0000
CN-J10	102.3400	93.4300	102.8823	21	17	9.4523	0.0000	8600.0239	0.0000	0.0000	0.0000
CN-J12	101.4900	93.4100	102.8812	21	1	9.4712	0.0000	20098.075	0.0000	0.0000	0.0000
CN-J9	101.8500	93.5800	102.8838	21	17	9.3038	0.0000	14059.015	0.0000	0.0000	0.0000
CN-J13	101.3100	93.6100	102.8823	20	59	9.2723	0.0000	24088.175	0.0000	0.0000	0.0000
CN-J8	101.3800	93.7300	102.8852	21	17	9.1552	0.0000	22525.284	0.0000	0.0000	0.0000
CN-7	100.8700	93.8600	102.8864	21	17	9.0264	0.0000	16727.040	0.0000	0.0000	0.0000
CN-J15	101.1300	94.2000	102.8853	20	57	8.6853	0.0000	28926.902	0.0000	0.0000	0.0000
CN-J7	102.3700	94.1600	102.8888	21	17	8.7288	0.0000	8399.6571	0.0000	0.0000	0.0000
CN-8	100.2700	94.5000	102.8866	21	0	8.3866	0.0000	16727.040	0.0000	0.0000	0.0000
CS-J7	101.5100	94.7300	102.8875	20	59	8.1575	0.0000	19824.719	0.0000	0.0000	0.0000
CN-6	101.3200	94.4600	102.8896	21	17	8.4296	0.0000	16727.040	0.0000	0.0000	0.0000
CS-7	100.7100	94.6900	102.8969	21	16	8.2069	0.0000	16727.040	0.0000	0.0000	0.0000
CS-8	100.8100	95.1300	102.8880	20	57	7.7580	0.0000	16727.040	0.0000	0.0000	0.0000
CS-9	100.4600	95.0300	102.8886	20	59	7.8586	0.0000	16727.040	0.0000	0.0000	0.0000
CN-J6	102.3200	94.7100	102.8901	21	19	8.1801	0.0000	8842.3056	0.0000	0.0000	0.0000
BW8-SW	102.6600	94.2000	103.2550	25	55	9.0550	0.0000	9824.0945	0.0000	0.0000	0.0000
CS-J6	101.4100	95.1500	102.8992	21	17	7.7492	0.0000	22168.459	0.0000	0.0000	0.0000
BW8-SE	102.0800	95.4100	102.8880	20	59	7.4780	0.0000	11216.741	0.0000	0.0000	0.0000
CN-5	101.4700	95.0600	102.8918	21	20	7.8318	0.0000	16727.040	0.0000	0.0000	0.0000
CS-J5	102.4600	95.4500	102.9002	21	17	7.4502	0.0000	7764.7158	0.0000	0.0000	0.0000
CN-J5	102.8700	95.4600	102.8930	21	20	7.4330	0.0000	5116.5277	0.0000	0.0000	0.0000
CS-6	101.7600	95.8500	102.9002	21	19	7.0502	0.0000	16727.040	0.0000	0.0000	0.0000
CN-J4	103.4200	95.8600	102.8939	21	22	7.0339	0.5261	12.5660	0.0000	0.0000	0.0000
CS-J4	102.8100	96.1500	102.9014	21	21	6.7514	0.0000	5478.5536	0.0000	0.0000	0.0000
CN-4	101.4200	96.2600	102.8957	21	23	6.6357	0.0000	16727.040	0.0000	0.0000	0.0000
CS-J3	103.8600	96.4500	102.9015	21	21	6.4515	0.9585	12.5660	0.0000	0.0000	0.0000
CN-3	101.8200	96.5800	102.8969	21	23	6.3169	0.0000	16727.040	0.0000	0.0000	0.0000
CS-5	103.1600	96.8500	102.9016	21	22	6.0516	0.2584	12.5660	0.0000	0.0000	0.0000
CN-J3	103.2200	96.7800	102.8979	21	24	7.0379	0.3221	12.5660	0.0000	0.0000	0.0000
CS-4	103.4600	96.9400	104.1020	16	40	7.1620	0.0000	8761.5137	0.0000	0.0000	0.0000
CN-J2	105.2200	96.2600	103.5574	17	59	7.2974	1.6626	12.5660	0.0000	0.0000	0.0000
CS-J2	105.0300	97.2900	104.8476	16	39	7.5576	0.1824	12.5660	0.0000	0.0000	0.0000
SNT01	104.7100	81.5000	98.0022	16	39	16.5022	6.7078	15000.000	0.0000	0.0000	0.0000
ML-05	106.4600	96.9500	106.3429	16	39	9.3929	0.1171	12.5660	0.0000	0.0000	0.0000
CN-2	104.6700	96.6600	102.9043	21	48	6.2443	1.7657	16727.040	0.0000	0.0000	0.0000
CS-3	106.6100	97.6400	105.4361	16	39	7.7961	1.1739	12.5660	0.0000	0.0000	0.0000
CN-J1	104.3400	97.1000	102.9078	21	48	5.8078	1.4322	12.5660	0.0000	0.0000	0.0000
CS-2	105.5600	97.9400	105.6184	16	39	7.6784	0.0000	346.6683	0.0000	0.0000	0.0000
CN-1	103.0000	97.5400	102.9112	21	47	5.3712	0.0888	16727.040	0.0000	0.0000	0.0000
CS-J1	106.8100	98.1900	105.8109	16	39	7.6209	0.9991	12.5660	0.0000	0.0000	0.0000
BN-8	105.5600	97.8600	102.9137	21	46	5.0537	2.6463	12.5660	0.0000	0.0000	0.0000
CS-1	105.8300	98.4400	106.0471	16	40	7.6071	0.0000	1380.7454	0.0000	0.0000	0.0000
BN-J6	107.6100	98.2600	102.9171	21	45	4.6571	4.6929	12.5660	0.0000	0.0000	0.0000
BN-7	106.2200	98.6600	102.9206	21	45	4.2606	3.2994	16727.040	0.0000	0.0000	0.0000
BN-J5	107.4100	97.9600	102.9210	21	45	4.9610	4.4890	12.5660	0.0000	0.0000	0.0000
BS-8	108.3000	98.9800	102.9228	21	45	3.9428	5.3772	16727.040	0.0000	0.0000	0.0000
BN-6	106.2200	98.2600	102.9213	21	45	4.6613	3.2987	16727.040	0.0000	0.0000	0.0000
BS-J4	108.9700	99.2100	102.9241	21	43	3.7141	6.0459	12.5660	0.0000	0.0000	0.0000
POND-7B	108.3000	99.5950	102.9258	21	43	3.3308	5.3742	357454.08	0.0000	0.0000	0.0000
BN-J4	107.6100	98.6600	102.9211	21	44	4.2611	4.6889	12.5660	0.0000	0.0000	0.0000
BS-7	108.4500	98.4300	102.9246	21	41	4.4946	5.5254	16727.040	0.0000	0.0000	0.0000
ML-04	108.9700	99.3910	102.9250	21	43	3.5340	6.0450	12.5660	0.0000	0.0000	0.0000
BN-5	106.4700	99.0600	102.9209	21	43	3.8609	3.5491	16727.040	0.0000	0.0000	0.0000
BS-6	108.4500	98.8300	102.9259	21	43	4.0959	5.5241	16727.040	0.0000	0.0000	0.0000
BN-J3	106.9100	98.3100	102.9209	21	40	4.6109	3.9891	12.5660	0.0000	0.0000	0.0000
BS-5	108.4500	98.7300	102.9259	21	44	4.1959	5.5241	12.5660	0.0000	0.0000	0.0000
BN-4	106.1700	98.5600	102.9220	21	37	4.3620	3.2480	16727.040	0.0000	0.0000	0.0000
BS-J3	108.9000	98.4800	102.9260	21	44	4.4460	5.9740	12.5660	0.0000	0.0000	0.0000
BS-4	108.1500	98.7300	102.9260	21	44	4.1960	5.2240	12.5660	0.0000	0.0000	0.0000
B-R2	108.9700	99.2540	102.9245	21	43	3.6705	6.0455	12.5660	0.0000	0.0000	0.0000
POND-6A	102.5000	95.0000	102.8986	21	15	7.8986	0.0000	412948.80	0.0000	0.0000	0.0000
BW8DET	102.5000	94.0000	102.8847	20	57	8.8847	0.0000	45302.400	0.0000	0.0000	0.0000
ML-03	109.0400	100.2140	102.9253	21	43	2.7113	6.1147	12.5660	0.0000	0.0000	0.0000

Table E10 - CONDUIT SUMMARY STATISTICS
Note: The peak flow may be less than the design flow and the conduit may still surcharge because of the downstream boundary conditions.

* denotes an open conduit that has been overtopped
this is a potential source of severe errors

Conduit Name	Design Flow (cfs)	Conduit Design Velocity (ft/s)	Maximum Vertical Depth (in)	Maximum Computed Flow (cfs)	Time of Occurence Hr.	Min.	Maximum Computed Velocity (ft/s)	Time of Occurence Hr.	Min.	Ratio of Max. to Design Flow	Maximum Water Elev at Pipe Ends Upstream (ft)	Dwnstrm (ft)	Ratio d/D US	DS
L_CN23	335.0831	5.2357	96.0000	310.4953	28	9	9.9253	28	30	0.9266	102.8804	102.8800	1.955	1.961
L_CN17	212.0829	5.0496	72.0000	285.0434	28	11	9.6430	28	31	1.3440	102.8823	102.8804	2.575	2.607
L_CN18	293.0409	5.4267	72.0000	195.6919	16	19	3.6093	16	19	0.6678	102.8812	102.8804	2.579	2.607
L_CN16	209.0140	4.9765	72.0000	283.6404	28	11	8.6756	28	30	1.3570	102.8838	102.8823	2.551	2.575
L_CN19	288.8076	5.3483	72.0000	195.7228	16	19	3.6101	16	19	0.6777	102.8823	102.8812	2.545	2.579
L_CN15	209.0140	4.9765	72.0000	282.6452	28	11	8.1437	28	31	1.3523	102.8852	102.8838	2.526	2.551
L_CN14	203.1495	4.8369	72.0000	281.8239	28	11	7.7814	28	31	1.3873	102.8864	102.8852	2.504	2.526
L_CN13	209.0150	4.9765	72.0000	274.5020	28	11	7.2805	28	16	1.3133	102.8888	102.8864	2.455	2.504
L_CN22	68.7160	4.3206	54.0000	32.6092	16	15	2.0349	16	15	0.4746	102.8866	102.8853	2.864	2.930
L_CS16	133.2439	4.7125	72.0000	194.1103	16	7	6.8308	16	7	1.4568	102.8875	102.8853	2.360	2.448
L_CN12	329.7863	5.4964	72.0000	376.6323	16	19	6.2561	16	19	1.1420	102.8896	102.8888	2.405	2.455
L_CS13	140.9227	4.4038	48.0000	-321.281	16	31	-9.9937	16	31	-2.2798	102.8969	102.8888	3.052	3.182
L_CS14	133.9338	4.7369	72.0000	147.8501	16	12	5.1978	16	12	1.1039	102.8880	102.8875	2.293	2.360
L_CS15	31.8188	3.3072	42.0000	53.4429	16	0	5.5137	16	0	1.6796	102.8886	102.8875	3.245	3.331
L_CN11	288.8507	5.3491	72.0000	320.3166	16	41	5.9034	16	41	1.1089	102.8901	102.8896	2.363	2.405
L_OS3	82.3015	4.5723	36.0000	191.5524	25	56	10.5029	25	56	2.3274	103.3170	102.8986	4.039	3.966
L_CS12	225.2206	7.0381	48.0000	-373.913	16	30	-11.6658	16	30	-1.6602	102.8986	102.8969	2.975	3.052
L_OS4	135.9816	4.8094	72.0000	109.3703	25	39	3.8420	25	39	0.8043	102.8880	102.8880	2.246	2.293
L_CN10	288.8514	5.3491	72.0000	320.3096	16	41	5.9030	16	41	1.1089	102.8918	102.8901	2.305	2.363
L_CS11	45.4240	3.6147	48.0000	85.3739	16	15	7.1708	16	4	1.8795	102.9002	102.8992	2.863	2.937
L_CN9	288.8357	5.3488	72.0000	247.6901	28	11	5.8989	28	39	0.8575	102.8930	102.8918	2.239	2.305
L_CS10	45.4240	3.6147	48.0000	85.8525	16	15	6.7674	16	15	1.8900	102.9002	102.9002	2.763	2.863
L_CN8	288.8621	5.3493	72.0000	244.7666	28	12	5.9239	28	39	0.8473	102.8939	102.8930	2.172	2.239
L_CS9	21.0919	2.9839	36.0000	28.6152	16	15	4.0378	16	15	1.3567	102.9014	102.9002	3.250	3.350
L_CN7	288.8357	5.3488	72.0000	242.6211	28	13	5.9425	28	39	0.8400	102.8957	102.8939	2.106	2.172
L_CS8	21.0948	2.9843	36.0000	28.5794	16	15	4.0306	16	15	1.3548	102.9015	102.9014	3.151	3.250
L_CN6	288.7365	5.3470	72.0000	241.0606	28	21	5.9543	28	39	0.8349	102.8969	102.8957	2.053	2.106
L_CS7	21.0921	2.9839	36.0000	28.5542	16	15	4.0245	16	15	1.3538	102.9016	102.9015	3.017	3.151
L_CN5	223.0665	4.9570	60.0000	239.3760	28	21	5.9193	28	37	1.0731	102.8979	102.8969	2.408	2.463
L_CS6	97.7308	4.0721	48.0000	250.2312	16	41	10.3485	16	41	2.5604	104.1020	102.8969	2.790	2.579
L_CN4	223.1812	4.9596	60.0000	238.4639	28	21	5.9341	28	37	1.0685	103.5574	102.8979	2.459	2.408
L_CS5	45.4313	3.6153	48.0000	78.1226	16	15	6.1811	16	15	1.7196	104.8476	104.1020	2.889	2.790
L_OS2	31.8711	3.3126	42.0000	42.2928	16	42	4.3515	16	42	1.3270	106.3359	104.1020	3.682	3.189
L_CN3	223.2647	4.9614	60.0000	236.8300	28	21	5.9470	28	37	1.0608	102.9043	103.5577	2.249	2.460
L_CS4	45.4255	3.6148	48.0000	78.0683	16	15	6.1701	16	15	1.7186	105.4355	104.8481	2.949	2.890

L_CN2	193.0892	4.8272	60.0000	228.7142	28	24	6.4814	28	32	1.1845	102.9078	102.9043	2.162	2.249
L_CS3	45.4275	3.6150	48.0000	55.8524	16	15	4.4116	16	15	1.2295	105.6184	105.4361	2.920	2.949
L_CN1	193.0471	4.8262	60.0000	227.7080	28	24	6.3327	28	32	1.1795	102.9112	102.9078	2.074	2.162
L_CS2	31.8156	3.3068	42.0000	31.2857	16	15	3.2244	16	15	0.9833	105.8110	105.6184	3.177	3.194
L_BN13	207.6345	5.1909	60.0000	222.3950	28	29	6.2024	28	31	1.0711	102.9137	102.9112	2.011	2.074
L_CS1	21.0936	2.9841	36.0000	31.2229	16	15	4.3715	16	15	1.4802	106.0471	105.8109	3.536	3.540
L_BN12	192.6903	4.8173	60.0000	221.7586	28	29	6.1759	28	31	1.1509	102.9171	102.9138	1.931	2.011
L_BN11	192.7670	4.8192	60.0000	220.8714	28	29	6.1119	28	32	1.1458	102.9206	102.9171	1.852	1.931
L_BN10	77.5140	3.8757	48.0000	38.4501	17	4	1.9138	17	4	0.4960	102.9210	102.9206	2.240	2.315
L_BS12	192.8332	4.8208	60.0000	-188.350	16	53	5.2408	28	33	-0.9768	102.9228	102.9206	1.789	1.852
L_BN9	77.5963	3.8798	48.0000	38.4479	17	4	1.9142	17	4	0.4955	102.9213	102.9210	2.165	2.240
L_BS10	194.8196	4.8705	60.0000	-205.212	16	55	-5.1200	16	55	-1.0533	102.9241	102.9228	1.743	1.789
L_BS14	196.0609	4.9015	60.0000	-235.234	16	56	-5.8750	16	56	-1.1998	102.9250	102.9245	1.707	1.734
L_BN8	45.4060	3.6133	48.0000	-32.3113	16	19	-2.5219	16	22	-0.7116	102.9211	102.9213	2.065	2.165
L_BS9	44.9170	3.5744	48.0000	-29.6664	16	13	-2.4815	16	7	-0.6605	102.9246	102.9241	2.124	2.179
L_BS13	194.6077	4.8652	60.0000	-349.388	16	52	-9.2267	16	36	-1.7953	102.9258	102.9250	1.666	1.707
L_BN7	45.4443	3.6163	48.0000	-31.7127	16	21	2.5681	15	52	-0.6978	102.9209	102.9211	1.965	2.065
L_BS8	45.4281	3.6151	48.0000	26.7245	16	2	3.6972	15	57	0.5883	102.9259	102.9246	2.024	2.124
L_BN6	21.0779	2.9819	36.0000	-16.8140	16	17	-2.3282	16	23	-0.7977	102.9209	102.9209	2.537	2.620
L_BS7	31.8156	3.3068	42.0000	35.5760	16	13	4.7490	15	52	1.1182	102.9259	102.9259	2.199	2.313
L_BN5	21.1060	2.9859	36.0000	-16.4643	16	23	2.6269	15	58	-0.7801	102.9220	102.9209	2.454	2.537
L_BS6	21.0919	2.9839	36.0000	21.7371	16	13	3.1097	16	1	1.0306	102.9260	102.9259	2.482	2.565
L_BS5	21.0919	2.9839	36.0000	21.5930	16	13	3.2151	16	0	1.0238	102.9260	102.9260	2.399	2.482
Link615	65.4360	1.6359	60.0000	-230.106	16	56	-5.7442	16	56	-3.5165	102.9245	102.9241	1.734	1.743
Link616	66.4939	5.2914	48.0000	84.7861	16	15	9.4509	15	53	1.2751	102.8992	102.8986	2.937	2.975
Link617	211.5025	5.8751	72.0000	257.1815	16	10	7.1153	16	10	1.2160	102.8853	102.8847	2.448	2.481
Link618	47.1387	3.7512	48.0000	163.9671	16	20	12.8926	16	20	3.4784	102.8847	102.8823	3.784	3.818
BS-ML	82.5278	4.2031	60.0000	75.9293	16	31	5.2481	15	56	0.9200	102.9253	102.9250	1.542	1.707
Senate	Undefnd	Undefnd	Undefn	111.9369	16	39								
FREE # 1	Undefnd	Undefnd	Undefn	620.9664	28	9								

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| Table E15 - SPREADSHEET INFO LIST |
| Conduit Flow and Junction Depth Information for use in |
| spreadsheets. The maximum values in this table are the |
| true maximum values because they sample every time step. |
| The values in the review results may only be the |
| maximum of a subset of all the time steps in the run. |
| Note: These flows are only the flows in a single barrel. |
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Conduit Name	Maximum Flow (cfs)	Total Flow (ft^3)	Maximum Velocity (ft/s)	Maximum Volume (ft^3)	##	Junction Name	Invert Elevation (ft)	Maximum Elevation (ft)
L_CN23	310.4953	10814283.60	9.9253	7676.4412	##	E135-01	86.8500	102.8800
L_CN17	285.0434	8939798.852	9.6430	15544.0137	##	CN-J11	86.9100	102.8804
L_CN18	195.6919	1875972.419	3.6093	8990.0719	##	CN-J10	87.0950	102.8823
L_CN16	283.6404	8938459.170	8.6756	12643.8239	##	CN-J12	87.0750	102.8812
L_CN19	195.7228	1875880.875	3.6101	10887.3633	##	CN-J9	87.2450	102.8838
L_CN15	282.6452	8939485.817	8.1437	12649.2499	##	CN-J13	87.2750	102.8823
L_CN14	281.8239	8941268.210	7.7814	11602.1315	##	CN-J8	87.3950	102.8852
L_CN13	274.5020	8580114.503	7.2805	25201.0977	##	CN-7	87.5320	102.8864
L_CN22	32.6092	166502.9235	2.0349	4096.3742	##	CN-J15	88.2000	102.8853
L_CS16	194.1103	1328272.945	6.8308	15870.5868	##	CN-J7	87.8320	102.8888
L_CN12	376.6323	6876309.615	6.2561	18130.5082	##	CN-8	90.0000	102.8866
L_CS13	-321.2809	1712847.132	-9.9937	16951.6663	##	CS-J7	88.7300	102.8875
L_CS14	147.8501	1042137.431	5.1978	11854.7221	##	CN-6	88.1320	102.8896
L_CS15	53.4429	283027.1474	5.5137	3025.2121	##	CS-7	90.6900	102.8969
L_CN11	320.3166	6332907.122	5.9034	13593.4187	##	CS-8	89.1300	102.8880
L_OS3	191.5524	746926.4719	10.5029	2283.3699	##	CS-9	91.5300	102.8886
L_CS12	-373.9129	1395694.826	-11.6658	3879.3932	##	CN-J6	88.3820	102.8901
L_OS4	109.3703	719354.1478	3.8420	8050.2547	##	BW8-SW	90.9100	103.2550
L_CN10	320.3096	6332946.950	5.9030	19026.7707	##	CS-J6	90.8900	102.8992
L_CS11	85.3739	440447.3553	7.1708	3952.0878	##	BW8-SE	89.4100	102.8880
L_CN9	247.6901	5762805.905	5.8989	21740.9723	##	CN-5	88.7320	102.8918
L_CS10	85.8525	441239.6564	6.7674	5269.4504	##	CS-J5	91.3700	102.9002
L_CN8	244.7666	5762534.577	5.9239	21729.8283	##	CN-J5	89.1320	102.8930
L_CS9	28.6152	148755.4092	4.0378	2223.0494	##	CS-6	91.7700	102.9002
L_CN7	242.6211	5762254.826	5.9425	21726.6108	##	CN-J4	89.5320	102.8939
L_CS8	28.5794	148838.5956	4.0306	2222.4418	##	CS-J4	93.0700	102.9014
L_CN6	241.0606	5533163.457	5.9543	17387.4992	##	CN-4	89.9320	102.8957
L_CS7	28.5542	148797.1413	4.0245	2963.9992	##	CS-J3	93.3700	102.9015
L_CN5	239.3760	3946431.498	5.9193	12734.1584	##	CN-3	90.2520	102.8969
L_CS6	250.2312	1227031.632	10.3485	8759.9163	##	CS-5	93.7700	102.9016
L_CN4	238.4639	3946683.933	5.9341	18176.6960	##	CN-J3	90.5330	102.8979
L_CS5	78.1226	384026.7892	6.1811	4609.2937	##	CS-4	90.6140	104.1020
L_OS2	42.2928	290341.4188	4.3515	5125.9948	##	CN-J2	90.9330	103.5574
L_CN3	236.8300	3947339.482	5.9470	18158.5779	##	CS-J2	93.2900	104.8476
L_CS4	78.0683	383944.1806	6.1701	4610.4661	##	SNT01	81.5000	98.0022
L_CN2	228.7142	3694549.378	6.4814	17636.8068	##	ML-05	91.1220	106.3429
L_CS3	55.8524	273749.1292	4.4116	3951.4819	##	CN-2	91.3320	102.9043
L_CN1	227.7080	3693986.109	6.3327	17636.8399	##	CS-3	93.6400	105.4361
L_CS2	31.2857	157811.8692	3.2244	2521.5144	##	CN-J1	91.7700	102.9078
L_BN13	222.3950	3417426.593	6.2024	13060.1627	##	CS-2	93.9400	105.6184
L_CS1	31.2229	157599.2587	4.3715	1852.2373	##	CN-1	92.2090	102.9112

L_BN12	221.7586	3182467.147	6.1759	16104.8109	##	CS-J1	94.6900	105.8109
L_BN11	220.8714	3182473.127	6.1119	16110.8393	##	BN-8	92.5320	102.9137
L_BN10	38.4501	471037.1941	1.9138	6045.8567	##	CS-1	95.4400	106.0471
L_BS12	-188.3503	2270785.597	5.2408	12835.4955	##	BN-J6	92.9320	102.9171
L_BN9	38.4479	470963.2560	1.9142	6030.8080	##	BN-7	93.6600	102.9206
L_BS10	-205.2121	2079718.750	-5.1200	9036.6778	##	BN-J5	93.6320	102.9210
L_BS14	-235.2344	1682019.081	-5.8750	5323.5712	##	BS-8	93.6510	102.9228
L_BN8	-32.3113	263843.0292	-2.5219	5273.6264	##	BN-6	93.9320	102.9213
L_BS9	-29.6664	321176.3860	-2.4815	2963.9868	##	BS-J4	93.8760	102.9241
L_BS13	-349.3878	668433.5209	-9.2267	8028.2720	##	POND-7B	94.5950	102.9258
L_BN7	-31.7127	263477.1682	2.5681	5264.7474	##	BN-J4	94.3320	102.9211
L_BS8	26.7245	241029.5763	3.6972	5268.5020	##	BS-7	94.1010	102.9246
L_BN6	-16.8140	127068.6881	-2.3282	1854.9939	##	ML-04	94.3910	102.9250
L_BS7	35.5760	165249.9949	4.7490	4034.4230	##	BN-5	94.7320	102.9209
L_BN5	-16.4643	126966.7348	2.6269	1850.0587	##	BS-6	94.5010	102.9259
L_BS6	21.7371	98837.6069	3.1097	1852.5412	##	BN-J3	94.9820	102.9209
L_BS5	21.5930	98769.7895	3.2151	1852.5412	##	BS-5	94.9010	102.9259
Link615	-230.1059	1758805.035	-5.7442	1628.0854	##	BN-4	95.2320	102.9220
Link616	84.7861	441965.8144	9.4509	922.1538	##	BS-J3	95.1510	102.9260
Link617	257.1815	1665518.915	7.1153	4714.6505	##	BS-4	95.4010	102.9260
Link618	163.9671	1697467.066	12.8926	1712.5714	##	B-R2	94.2540	102.9245
BS-ML	75.9293	615725.3602	5.2481	16867.2880	##	POND-6A	91.0000	102.8986
Senate	111.9369	417226.5847	0.0000	0.0000	##	BW8DET	87.7500	102.8847
FREE # 1	620.9664	10814153.37	0.0000	0.0000	##	ML-03	95.2140	102.9253

==
| Table E15a - SPREADSHEET REACH LIST |
| Peak flow and Total Flow listed by Reach or those |
| conduits or diversions having the same |
| upstream and downstream nodes. |
==

Upstream Node	Downstream Node	Maximum Flow (cfs)	Total Flow (ft^3)
CN-J11	E135-01	620.9905	10814283.6
CN-J10	CN-J11	570.0868	8939798.85
CN-J12	CN-J11	195.6919	1875972.42
CN-J9	CN-J10	567.2809	8938459.17
CN-J13	CN-J12	195.7228	1875880.88
CN-J8	CN-J9	565.2904	8939485.82
CN-7	CN-J8	563.6478	8941268.21
CN-J7	CN-7	549.0039	8580114.50
CN-8	CN-J15	32.6092	166502.924
CS-J7	CN-J15	194.1103	1328272.94
CN-6	CN-J7	376.6323	6876309.61
CS-7	CN-J7	-321.2809	1712847.13
CS-8	CS-J7	147.8501	1042137.43
CS-9	CS-J7	53.4429	283027.147
CN-J6	CN-6	320.3166	6332907.12
BW8-SW	POND-6A	191.5524	746926.472
POND-6A	CS-7	-373.9129	1395694.83
BW8-SE	CS-8	109.3703	719354.148
CN-5	CN-J6	320.3096	6332946.95
CS-J5	CS-J6	85.3739	440447.355
CN-J5	CN-5	247.6901	5762805.90
CS-6	CS-J5	85.8525	441239.656
CN-J4	CN-J5	244.7666	5762534.58
CS-J4	CS-6	28.6152	148755.409
CN-4	CN-J4	242.6211	5762254.83
CS-J3	CS-J4	28.5794	148838.596
CN-3	CN-4	241.0606	5533163.46
CS-5	CS-J3	28.5542	148797.141
CN-J3	CN-3	239.3760	3946431.50
CS-4	CN-3	250.2312	1227031.63
CN-J2	CN-J3	238.4639	3946683.93
CS-J2	CS-4	78.1226	384026.789
ML-05	CS-4	42.2928	290341.419
CN-2	CN-J2	236.8300	3947339.48

CS-3	CS-J2	78.0683	383944.181
CN-J1	CN-2	228.7142	3694549.38
CS-2	CS-3	55.8524	273749.129
CN-1	CN-J1	227.7080	3693986.11
CS-J1	CS-2	31.2857	157811.869
BN-8	CN-1	222.3950	3417426.59
CS-1	CS-J1	31.2229	157599.259
BN-J6	BN-8	221.7586	3182467.15
BN-7	BN-J6	220.8714	3182473.13
BN-J5	BN-7	38.4501	471037.194
BS-8	BN-7	-188.3503	2270785.60
BN-6	BN-J5	38.4479	470963.256
BS-J4	BS-8	-205.2121	2079718.75
ML-04	B-R2	-235.2344	1682019.08
BN-J4	BN-6	-32.3113	263843.029
BS-7	BS-J4	-29.6664	321176.386
POND-7B	ML-04	-349.3878	668433.521
BN-5	BN-J4	-31.7127	263477.168
BS-6	BS-7	26.7245	241029.576
BN-J3	BN-5	-16.8140	127068.688
BS-5	BS-6	35.5760	165249.995
BN-4	BN-J3	-16.4643	126966.735
BS-J3	BS-5	21.7371	98837.6069
BS-4	BS-J3	21.5930	98769.7895
B-R2	BS-J4	-230.1059	1758805.03
CS-J6	POND-6A	84.7861	441965.814
CN-J15	BW8DET	257.1815	1665518.91
BW8DET	CN-J13	163.9671	1697467.07
ML-03	ML-04	75.9293	615725.360
SNT01	CS-4	111.9369	417226.585

Table E19 - Junction Inflow & Outflow Listing
Units are either ft^3 or m^3 depending on the units in your model.

Junction Name	Constant Inflow to Node	User Inflow to Node	Interface Inflow to Node	DWF Inlow to Node	Inflow through Outfall	RNF Layer Inflow to Node	Outflow from Node	Evaporation from Node	Inflow from 2D Layer
E135-01	0.0000	0.0000	0.0000	0.0000	1.2740E+06	0.0000	12.0882E+06	0.0000	
CN-J13	0.0000	177660.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
CN-7	0.0000	342243.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
CN-J15	0.0000	165771.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
CN-8	0.0000	166581.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
CN-6	0.0000	525874.5050	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
CS-7	0.0000	307062.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
CS-8	0.0000	326371.5050	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
CS-9	0.0000	284337.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
BW8-SW	0.0000	671427.1700	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
BW8-SE	0.0000	683041.5450	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
CN-5	0.0000	570361.5050	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
CS-6	0.0000	292653.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
CN-4	0.0000	228438.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
CN-3	0.0000	359136.0100	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
CS-5	0.0000	148923.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
CS-4	0.0000	137079.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
SNT01	0.0000	661072.6350	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
ML-05	0.0000	291046.5250	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
CN-2	0.0000	235516.5050	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
CS-3	0.0000	110097.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
CS-2	0.0000	115767.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
CN-1	0.0000	264177.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
BN-8	0.0000	235575.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
CS-1	0.0000	158004.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
BN-7	0.0000	426937.5050	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
BS-8	0.0000	178407.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
BN-6	0.0000	193644.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	

POND-7B	0.0000	542556.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
BS-7	0.0000	68733.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
ML-04	0.0000	398173.5050	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
BN-5	0.0000	125748.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
BS-6	0.0000	67482.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
BS-5	0.0000	67473.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
BN-4	0.0000	119637.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
BS-4	0.0000	98811.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
B-R2	0.0000	76950.0400	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
POND-6A	0.0000	436230.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
BW8DET	0.0000	52524.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
ML-03	0.0000	615429.1000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Table E20 - Junction Flooding and Volume Listing. The maximum volume is the total volume in the node including the volume in the flooded storage area. This is the max volume at any time. The volume in the flooded storage area is the total volume above the ground elevation, where the flooded pond storage area starts. The fourth column is instantaneous, the fifth is the sum of the flooded volume over the entire simulation. Units are either ft^3 or m^3 depending on the units.

Junction Name	Surcharged Time (min)	Flooded Time(min)	Out of 1D-System (Flooded Volume)	Maximum Volume	Passed to 2D cell OR Volume Stored in allowed Flood Pond of 1D-System
E135-01	667.4667	0.0000	0.0000	6319.0848	13.7191
CN-J11	666.5833	428.8417	0.0000	7994.3046	8165.9141
CN-J10	734.8167	351.8583	0.0000	3791.5926	4008.7100
CN-J12	729.7500	465.4417	0.0000	15279.2137	15886.2563
CN-J9	734.9667	440.2000	0.0000	9242.5414	11773.9496
CN-J13	724.0000	477.0500	0.0000	19264.5387	20178.9815
CN-J8	735.2333	474.2667	0.0000	17701.0193	22859.2592
CN-7	735.8167	0.0000	0.0000	213333.5533	0.0000
CN-J15	709.9000	544.3417	0.0000	24089.3808	28565.3422
CN-J7	736.4167	350.2667	0.0000	3582.3417	3676.4490
CN-8	700.6500	566.3417	0.0000	34126.0724	39333.6574
CS-J7	695.9500	543.6583	0.0000	14985.3123	20578.8358
CN-6	731.8000	0.0000	0.0000	210824.4973	0.0000
CS-7	758.1000	496.0083	0.0000	26934.9475	28103.3621
CS-8	685.1833	573.0583	0.0000	25133.0189	69226.8454
CS-9	689.1000	580.7167	0.0000	30964.4786	41710.4289
CN-J6	728.3000	359.4167	0.0000	4017.4505	4162.2261
BW8-SW	760.6333	361.3083	0.0000	4971.7450	39308.5015
CS-J6	727.6000	454.9667	0.0000	17300.6538	18657.0946
BW8-SE	676.9833	540.9167	0.0000	6375.9520	26332.7255
CN-5	723.8000	482.4917	0.0000	14170.7735	23870.1760
CS-J5	729.4333	334.7083	0.0000	2904.0727	3078.9914
CN-J5	718.1000	168.1667	0.0000	289.1594	187.7260
CS-6	730.6000	426.0000	0.0000	9425.7227	10305.0236
CN-J4	711.9000	0.0000	0.0000	167.9060	0.0000
CS-J4	724.2833	220.2500	0.0000	600.9464	776.5379
CN-4	705.3333	532.8750	0.0000	15056.0896	24286.3690
CS-J3	717.5333	0.0000	0.0000	119.7731	0.0000
CN-3	698.4333	478.9917	0.0000	8386.5358	11278.1159
CS-5	708.5167	0.0000	0.0000	114.7477	0.0000
CN-J3	730.1000	0.0000	0.0000	155.3772	0.0000
CS-4	687.6000	4.5500	0.0000	2169.0194	2193.6469
CN-J2	727.9500	0.0000	0.0000	158.6418	0.0000
CS-J2	677.7167	0.0000	0.0000	145.2396	0.0000
SNT01	1275.0000	0.0000	0.0000	247536.1845	0.0000
ML-05	689.1833	0.0000	0.0000	191.1795	0.0000
CN-2	725.4833	0.0000	0.0000	183799.2657	0.0000
CS-3	667.6667	0.0000	0.0000	148.2227	0.0000
CN-J1	727.0333	0.0000	0.0000	139.9576	0.0000
CS-2	658.4833	0.4333	0.0000	155.7333	11.7758
CN-1	728.0167	0.0000	0.0000	169245.2499	0.0000
CS-J1	650.8167	0.0000	0.0000	139.7469	0.0000

BN-8	724.2500	0.0000	0.0000	130.4571	0.0000	
CS-1	643.5917	1.6750	0.0000	269.6782	152.7836	
BN-J6	722.5833	0.0000	0.0000	125.4729	0.0000	
BN-7	720.4167	0.0000	0.0000	145131.5110	0.0000	
BN-J5	754.6667	0.0000	0.0000	116.7255	0.0000	
BS-8	713.1667	0.0000	0.0000	145318.1145	0.0000	
BN-6	740.1333	0.0000	0.0000	140593.2828	0.0000	
BS-J4	707.2500	0.0000	0.0000	113.6981	0.0000	
POND-7B	666.9833	0.0000	0.0000	2459267.632	0.0000	
BN-J4	722.2000	0.0000	0.0000	107.9305	0.0000	
BS-7	745.0167	0.0000	0.0000	137820.8436	0.0000	
ML-04	708.0333	0.0000	0.0000	107.2382	0.0000	
BN-5	702.7833	0.0000	0.0000	127205.0843	0.0000	
BS-6	728.1667	0.0000	0.0000	131151.7926	0.0000	
BN-J3	739.1167	0.0000	0.0000	99.7606	0.0000	
BS-5	734.8167	0.0000	0.0000	100.8414	0.0000	
BN-4	727.1833	0.0000	0.0000	118858.6301	0.0000	
BS-J3	746.5000	0.0000	0.0000	97.7006	0.0000	
BS-4	736.8500	0.0000	0.0000	94.5593	0.0000	
B-R2	713.5500	0.0000	0.0000	108.9531	0.0000	
POND-6A	730.9833	0.0000	0.0000	4025092.494	0.0000	
BW8DET	715.7667	0.0000	0.0000	400735.5877	0.0000	
ML-03	669.0000	0.0000	0.0000	96.9002	0.0000	

==================================
| Simulation Specific Information |
==================================

Number of Input Conduits.....	63	Number of Simulated Conduits.....	65
Number of Natural Channels.....	0	Number of Junctions.....	65
Number of Storage Junctions.....	31	Number of Weirs.....	0
Number of Orifices.....	0	Number of Pumps.....	1
Number of Free Outfalls.....	1	Number of Tide Gate Outfalls.....	0

===
| Average % Change in Junction or Conduit is defined as: |
| Conduit % Change ==> 100.0 (Q(n+1) - Q(n)) / Qfull |
| Junction % Change ==> 100.0 (Y(n+1) - Y(n)) / Yfull |
===

The Conduit with the largest average change was..L_OS3 with 17.052 percent
The Junction with the largest average change was.BW8-SW with 0.727 percent
The Conduit with the largest sinuosity was.....L_OS3 with 368.917

===
| Table E21. Continuity balance at the end of the simulation |
| Junction Inflow, Outflow or Street Flooding |
| Error = Inflow + Initial Volume - Outflow - Final   Volume |
===

Inflow Junction	Inflow Volume,ft^3	Average Inflow, cfs
E135-01	1.27405E+06	9.8306
CN-J13	177660.2996	1.3708
CN-7	342243.6090	2.6408
CN-J15	165771.2852	1.2791
CN-8	166581.2962	1.2853
CN-6	525875.3855	4.0577
CS-7	307062.5396	2.3693
CS-8	326371.9954	2.5183
CS-9	284337.4292	2.1940
BW8-SW	671427.5406	5.1808
BW8-SE	683042.2952	5.2704
CN-5	570362.5194	4.4009
CS-6	292653.5208	2.2581
CN-4	228438.3923	1.7626
CN-3	359136.5377	2.7711
CS-5	148923.2643	1.1491
CS-4	137079.2392	1.0577
SNT01	661073.0883	5.1009
ML-05	291046.8043	2.2457
CN-2	235516.8970	1.8173
CS-3	110097.1930	0.8495
CS-2	115767.1918	0.8933
CN-1	264177.4647	2.0384
BN-8	235575.4061	1.8177
CS-1	158004.2804	1.2192

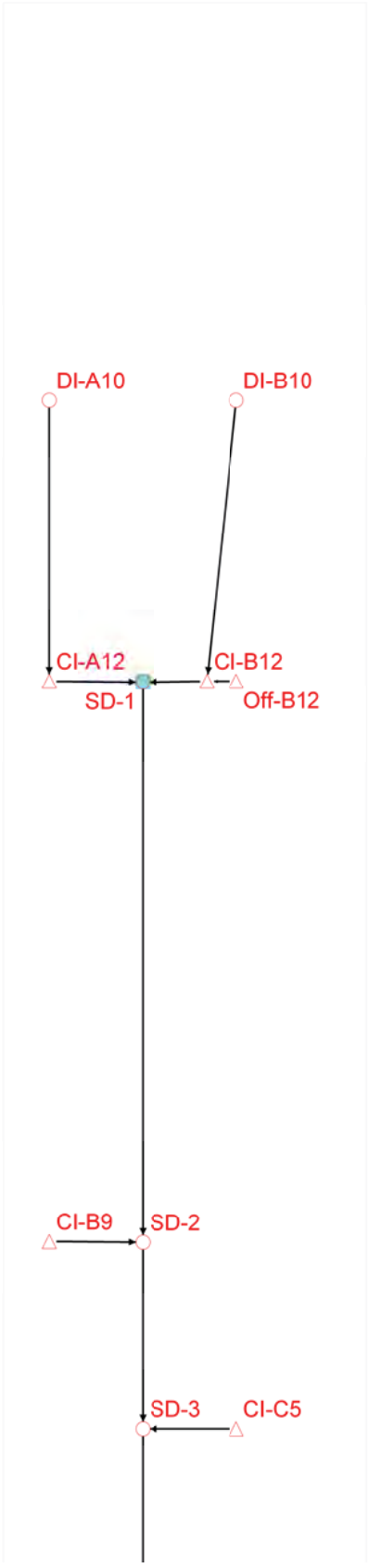
BN-7	426938.1395	3.2943
BS-8	178407.3103	1.3766
BN-6	193644.3383	1.4942
POND-7B	542556.9385	4.1864
BS-7	68733.1153	0.5303
ML-04	398174.0703	3.0723
BN-5	125748.2185	0.9703
BS-6	67482.1093	0.5207
BS-5	67473.1113	0.5206
BN-4	119637.2059	0.9231
BS-4	98811.1628	0.7624
B-R2	76950.0891	0.5938
POND-6A	436230.7599	3.3660
BW8DET	52524.0820	0.4053
ML-03	615429.3838	4.7487
E135-01	-12.088E+06	-93.2731

Outflow Junction	Outflow Volume,ft^3	Average Outflow, cfs
E135-01	12.08820E+06	93.2731

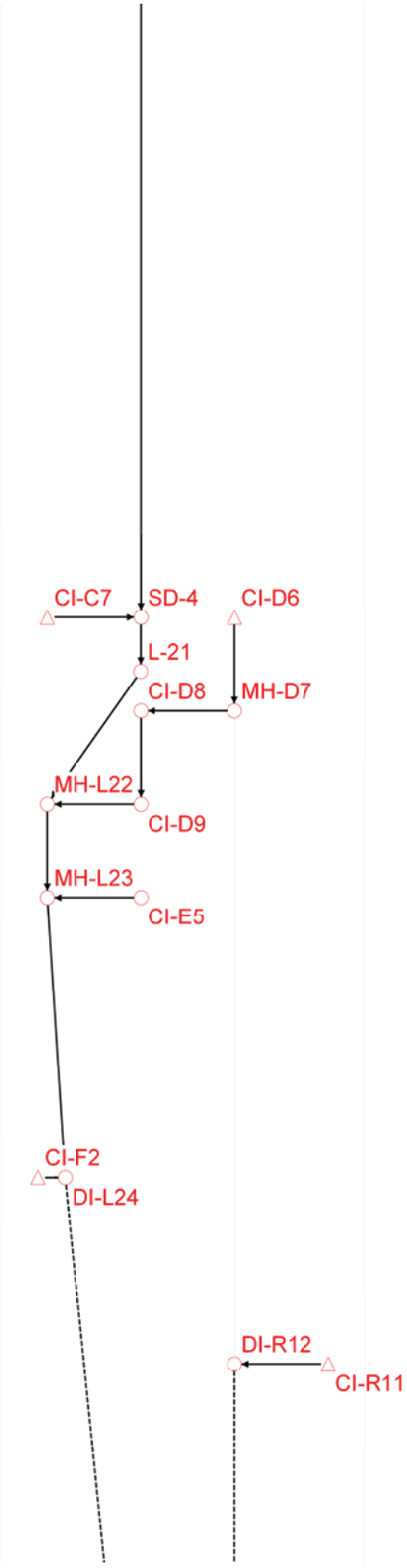
```
*=====================================================*
| Initial system volume        =         0.0000 Cu Ft |
| Total system inflow volume   =  12.200996E+06 Cu Ft |
| Inflow + Initial volume      =  12.200996E+06 Cu Ft |
*=====================================================*
| Total system outflow         =  12.088200E+06 Cu Ft |
| Volume left in system        =    327401.0723 Cu Ft |
| Evaporation                  =         0.0000 Cu Ft |
| Outflow + Final Volume       =  12.415601E+06 Cu Ft |
*=====================================================*

*=============================================*
| Total Model Continuity Error                |
| Error in Continuity, Percent =        -1.7589 |
| Error in Continuity, ft^3    =    -214604.388 |
| + Error means a continuity loss, - a gain    |
*=============================================*

#####################################################
# Table E22. Numerical Model judgement section    #
#####################################################

Your overall error was                                    -1.7589 percent

Worst nodal error was in node POND-6A          with         7.6059 percent

Of the total inflow this loss was                         1.8831 percent

Your overall continuity error was                 Great

                                                Excellent Efficiency

Efficiency of the simulation                      1.58

Most Number of Non Convergences at one Node       2.

Total Number Non Convergences at all Nodes        4.

Total Number of Nodes with Non Convergences       3.

===> Hydraulic model simulation ended normally.
===> XP-SWMM Simulation ended normally.

===> Your input file was named  : P:\PROJECTS\290PMC\PhaseII\DRA\Models\SWMM\Segment C\BW8MIT_100.DAT
===> Your output file was named : P:\PROJECTS\290PMC\PhaseII\DRA\Models\SWMM\Segment C\BW8MIT_100.out

*============================================================*
|          SWMM Simulation Date and Time Summary             |
*============================================================*
| Starting Date... November    4, 2009  Time...     9:37:53:76  |
|   Ending Date... November    4, 2009  Time...     9:43:41:66  |
|  Elapsed Time...     5.79833 minutes or     347.90000 seconds  |
*============================================================*
```

OUTFALLS 8A/8B
SWMM OUTPUT
100 YR- EXISTING CONDITIONS

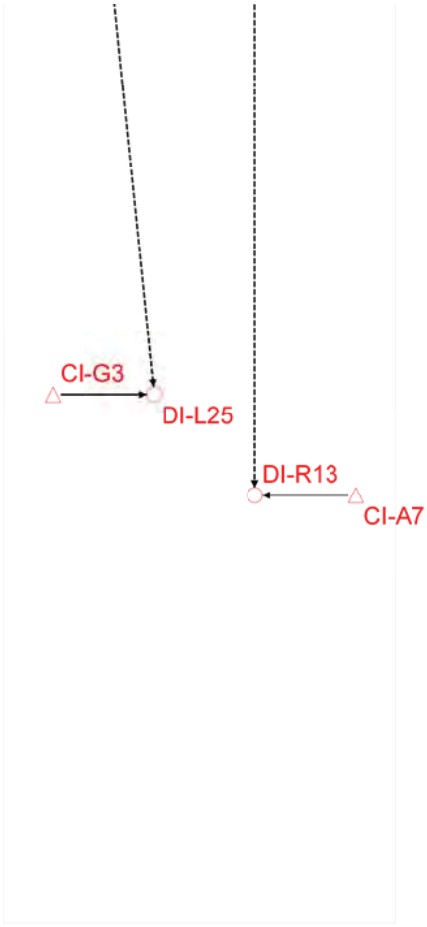
OUTFALLS 8A/8B
EXISTING SWMM LAYOUT



OUTFALLS 8A/8B
EXISTING SWMM LAYOUT



OUTFALLS 8A/8B
EXISTING SWMM LAYOUT



Current Directory: C:\XPS\xpstorm
Engine Name: C:\XPS\xpstorm\SWMMEN~1.EXE

Input File : MC\PhaseII\DRA\Models\SWMM\Outfalls8A-8B\BW8South_Exist_100-R1.XP

```
          *================================================*
          |                    xpswmm                      |
          |     Storm and Wastewater Management Model      |
          |           Interface Version: 10.52             |
          |              Engine Version: 10.54             |
          |================================================|
          |                                                |
          |                Developed by                    |
          |                                                |
          |                XP Software                     |
          |                                                |
          |================================================|
          |      XP Software       November, 2006          |
          |       Data File Version --->    11.9           |
          |       Serial Number: 42-xxx-0000               |
          |          XP Software (Evaluation)              |
          *================================================*
```

Engine Name: C:\XPS\xpstorm\SWMMEN~1.EXE

```
*==================================================*
|       Input and Output file names by Layer       |
*==================================================*

 Input File  to Layer #     1 JOT.US

 Output File to Layer #     1 JOT.US


*==========================================================*
|   Special command line arguments in XP-SWMM2000. This   |
|   now includes program defaults. $Keywords are the program|
|   defaults.  Other Keywords are from the SWMMCOM.CFG file.|
|   or the command line or any cfg file on the command line.|
|   Examples include these in the file xpswm.bat under the  |
|   section :solve or in the windows version XPSWMM32 in the|
|   file solve.bat                                         |
|                                                          |
|   Note: the cfg file should be in the subdirectory swmxp  |
|         or defined by the set variable in the xpswm.bat   |
|         file.  Some examples of the command lines possible|
|         are shown below:                                 |
|                                                          |
|   swmmd swmmcom.cfg                                      |
|   swmmd my.cfg                                           |
|   swmmd nokeys nconv5 perv extranwq                      |
*==========================================================*

 $powerstation                        0.0000         1         2
 $perv                                0.0000         0         4
 $oldegg                              0.0000         0         7
 $as                                  0.0000         0        11
 $noflat                              0.0000         0        21
 $oldomega                            0.0000         0        24
 $oldvol                              0.0000         1        28
 $implicit                            0.0000         1        29
 $oldhot                              0.0000         1        31
 $oldscs                              0.0000         0        33
 $flood                               0.0000         1        40
 $nokeys                              0.0000         0        42
 $pzero                               0.0000         0        55
 $oldvol2                             0.0000         2        59
 $storage2                            0.0000         3        62
 $oldhot1                             0.0000         1        63
 $pumpwt                              0.0000         1        70
 $ecloss                              0.0000         1        77
 $exout                               0.0000         0        97
 SPATIAL=0.55                         0.5500         5       124
 $djref = -1.0                       -0.1000         3       143
 $weirlen = 50                       50.0000         1       153
 $oldbnd                              0.0000         1       154
 $nogrelev                            0.0000         1       161
 $ncmid                               0.0000         0       164
 $new_nl_97                           0.0000         2       290
 $best97                              0.0000         1       294
 $newbound                            0.0000         1       295
 $q_tol = 0.01                        0.0001         1       316
 $new_storage                         0.0000         1       322
 $old_iteration                       0.0000         1       333
 MINLEN=10                           10.0000         1       346
 $review_elevation                    0.0000         1       383
 $use_half_volume                     0.0000         1       385
 $min_ts = 0.5                        0.5000         1       407
 $design_restart = on                 0.0000         1       412
 $zero_value=1.e-05                   0.0000         1       415
 $relax_depth = on                    0.0000         1       427
 $saveallpts = on                     0.0000         1       434

 *==========================================================*
```

| Parameter Values on the Tapes Common Block.These are the |
| values read from the data file and dynamically allocated |
| by the model for this simulation. |

```
 Number of Subcatchments in the Runoff Block (NW)....     0
 Number of Channel/Pipes in the Runoff Block (NG)....     0
 Runoff Water quality constituents (NRQ).............     0
 Runoff Land Uses per Subcatchment (NLU).............     0
 Number of Elements in the Transport Block (NET).....     0
 Number of Storage Junctions in Transport (NTSE).....     0
 Number of Input Hydrographs in Transport (NTH)......     0
 Number of Elements in the Extran Block (NEE)........    30
 Number of Groundwater Subcatchments in Runoff (NGW).     0
 Number of Interface locations for all Blocks (NIE)..    30
 Number of Pumps in Extran (NEP).....................     0
 Number of Orifices in Extran (NEO)..................     0
 Number of Tide Gates/Free Outfalls in Extran (NTG)..     2
 Number of Extran Weirs (NEW)........................     0
 Number of scs hydrograph points.....................     1
 Number of Extran printout locations (NPO)...........     0
 Number of Tide elements in Extran (NTE).............     2
 Number of Natural channels (NNC)....................     4
 Number of Storage junctions in Extran (NVSE)........    11
 Number of Time history data points in Extran(NTVAL).     0
 Number of Variable storage elements in Extran (NVST)     7
 Number of Input Hydrographs in Extran (NEH).........    21
 Number of Particle sizes in Transport Block (NPS)...     0
 Number of User defined conduits (NHW)...............    30
 Number of Connecting conduits in Extran (NECC)......    20
 Number of Upstream elements in Transport (NTCC).....    10
 Number of Storage/treatment plants (NSTU)...........     1
 Number of Values for R1 lines in Transport (NR1)....     0
 Number of Nodes to be allowed for (NNOD)............    30
 Number of Plugs in a Storage Treatment Unit.........     1


##########################################################
#    Entry made to the HYDRAULIC Layer(Block) of SWMM #
#    Last Updated June,2005 by XP Software            #

    BW8 SOUTH OF US290 EXISTING CONDITIONS 100-YR
```

| HYDRAULICS TABLES IN THE OUTPUT FILE |
| These are the more important tables in the output file. |
| You can use your editor to find the table numbers, |
| for example: search for Table E20 to check continuity. |
| This output file can be imported into a Word Processor |
| and printed on US letter or A4 paper using portrait |
| mode, courier font, a size of 8 pt. and margins of 0.75 |
| |
| Table E1 - Basic Conduit Data |
| Table E2 - Conduit Factor Data |
| Table E3a - Junction Data |
| Table E3b - Junction Data |
| Table E4 - Conduit Connectivity Data |
| Table E4a - Dry Weather Flow Data |
| Table E4b - Real Time Control Data |
| Table E5 - Junction Time Step Limitation Summary |
| Table E5a - Conduit Explicit Condition Summary |
| Table E6 - Final Model Condition |
| Table E7 - Iteration Summary |
| Table E8 - Junction Time Step Limitation Summary |
| Table E9 - Junction Summary Statistics |
| Table E10 - Conduit Summary Statistics |
| Table E11 - Area assumptions used in the analysis |
| Table E12 - Mean conduit information |
| Table E13 - Channel losses(H) and culvert info |
| Table E13a - Culvert Analysis Classification |
| Table E14 - Natural Channel Overbank Flow Information |
| Table E14a - Natural Channel Encroachment Information |
| Table E14b - Floodplain Mapping |
| Table E15 - Spreadsheet Info List |
| Table E15a - Spreadsheet Reach List |
| Table E16 - New Conduit Output Section |
| Table E17 - Pump Operation |
| Table E18 - Junction Continuity Error |
| Table E19 - Junction Inflow & Outflow Listing |
| Table E20 - Junction Flooding and Volume List |
| Table E21 - Continuity balance at simulation end |
| Table E22 - Model Judgement Section |

```
Time Control from Hydraulics Job Control
Year.........    1995 Month.......       1
Day..........       1 Hour........       0
Minute.......       0 Second......       0


Control information for simulation
----------------------------------

Integration cycles.................    172800
Length of integration step is......      1.00 seconds
Simulation length..................     48.00 hours
```

```
Do not create equiv. pipes(NEQUAL).         0
Use U.S. customary units for I/O...         0
Printing starts in cycle...........         1
Intermediate printout intervals of.       500 cycles
Intermediate printout intervals of.      8.33 minutes
Summary printout intervals of......       500 cycles
Summary printout time interval of..      8.33 minutes
Hot start file parameter (REDO)....         0
Initial time.......................      0.00 hours

Iteration variables: Flow Tolerance.   0.00010
                     Head Tolerance.   0.00005
    Minimum depth (m or ft).........   0.00001
    Underrelaxation parameter.......   0.85000
    Time weighting parameter........   0.85000
    Conduit roughness factor........   1.00000
    Flow adjustment factor..........   1.00000
    Initial Condition Smoothing.....         0
    Courant Time Step Factor........   1.00000
    Default Expansion/Contraction K.   0.00000
    Default Entrance/Exit K.........   0.00000
    Routing Method..................   Dynamic Wave
Default surface area of junctions...     12.57 square feet.
Minimum Junction/Conduit Depth......   0.00001 feet.
Ponding Area Coefficient............   5000.00
Ponding Area Exponent...............    1.0000
Minimum Orifice Length..............   1000.00 feet.
NJSW input hydrograph junctions.....    21
     or user defined hydrographs....
```

Natural Cross-Section information for Channel L_L-SD4

Cross-Section ID (from X1 card) : 1.0 Channel sequence number : 1

Left Overbank Length :	67.7 ft	Maximum Elevation :	104.13 ft.
Main Channel Length :	67.7 ft	Maximum Depth :	4.00 ft.
Right Overbank Length :	67.7 ft	Maximum Section Area :	98.5556 ft^2
		Maximum hydraulic radius :	2.26 ft.
Manning N : 0.013	to Station 34.8	Max topwidth :	42.66 ft.
" " : 0.035	in main Channel	Maximum Wetted Perimeter :	4.35E+01 ft
" " : 0.013	Beyond station 80.9	Max left bank area :	0.00 ft^2
		Max right bank area :	0.00 ft^2
Allowable Encroachment Depth :	0.00 ft	Max center channel area :	98.5556 ft^2

Natural Cross-Section information for Channel L_L-SD3

Cross-Section ID (from X1 card) : 2.0 Channel sequence number : 2

Left Overbank Length :	826.0 ft	Maximum Elevation :	104.83 ft.
Main Channel Length :	826.0 ft	Maximum Depth :	4.70 ft.
Right Overbank Length :	826.0 ft	Maximum Section Area :	130.8555 ft^2
		Maximum hydraulic radius :	2.62 ft.
Manning N : 0.013	to Station 34.8	Max topwidth :	48.98 ft.
" " : 0.035	in main Channel	Maximum Wetted Perimeter :	5.00E+01 ft
" " : 0.013	Beyond station 80.9	Max left bank area :	0.00 ft^2
		Max right bank area :	0.70 ft^2
Allowable Encroachment Depth :	0.00 ft	Max center channel area :	130.1588 ft^2

Natural Cross-Section information for Channel L_L-SD2

Cross-Section ID (from X1 card) : 3.0 Channel sequence number : 3

Left Overbank Length :	191.0 ft	Maximum Elevation :	104.83 ft.
Main Channel Length :	191.0 ft	Maximum Depth :	4.70 ft.
Right Overbank Length :	191.0 ft	Maximum Section Area :	130.8555 ft^2
		Maximum hydraulic radius :	2.62 ft.
Manning N : 0.013	to Station 34.8	Max topwidth :	48.98 ft.
" " : 0.035	in main Channel	Maximum Wetted Perimeter :	5.00E+01 ft
" " : 0.013	Beyond station 80.9	Max left bank area :	0.00 ft^2
		Max right bank area :	0.70 ft^2
Allowable Encroachment Depth :	0.00 ft	Max center channel area :	130.1588 ft^2

Natural Cross-Section information for Channel L_L-SD1

Cross-Section ID (from X1 card) : 4.0 Channel sequence number : 4

Left Overbank Length :	597.0 ft	Maximum Elevation :	104.83 ft.
Main Channel Length :	597.0 ft	Maximum Depth :	4.70 ft.
Right Overbank Length :	597.0 ft	Maximum Section Area :	130.8555 ft^2
		Maximum hydraulic radius :	2.62 ft.
Manning N : 0.013	to Station 34.8	Max topwidth :	48.98 ft.
" " : 0.035	in main Channel	Maximum Wetted Perimeter :	5.00E+01 ft
" " : 0.013	Beyond station 80.9	Max left bank area :	0.00 ft^2
		Max right bank area :	0.70 ft^2
Allowable Encroachment Depth :	0.00 ft	Max center channel area :	130.1588 ft^2

Table E1 - Conduit Data

Inp Num	Conduit Name	Length (ft)	Conduit Class	Area (ft^2)	Manning Coef.	Max Width (ft)	Depth (ft)	Trapezoid Side Slopes
1	L_L-G3	46.6500	Circular	1.7671	0.0130	1.5000	1.5000	
2	L_L-F2	46.5870	Circular	1.7671	0.0130	1.5000	1.5000	
3	L_L-L23	326.5420	Rectangle	24.0000	0.0130	6.0000	4.0000	
4	L_L-E5	93.0670	Circular	1.7671	0.0130	1.5000	1.5000	

5	L_L-L22	105.8570	Rectangle	24.0000	0.0130	6.0000	4.0000		
6	L_L-D9	93.2300	Circular	4.9087	0.0130	2.5000	2.5000		
7	L_L-L21	101.7760	Rectangle	24.0000	0.0130	6.0000	4.0000		
8	L_L-D8	51.3320	Circular	4.9087	0.0130	2.5000	2.5000		
9	L_L-SD4	67.6550	Natural	98.5556	0.0350	42.6566	4.0000		
10	L_L-D7	141.9070	Circular	4.9087	0.0130	2.5000	2.5000		
11	L_L-C7	119.8490	Rectangle	8.0000	0.0130	4.0000	2.0000		
12	L_L-SD3	826.0000	Natural	130.8555	0.0350	48.9780	4.7040		
13	L_L-D6	99.6550	Circular	4.9087	0.0130	2.5000	2.5000		
14	L_L-C5	80.6470	Rectangle	8.0000	0.0130	4.0000	2.0000		
15	L_L-SD2	191.0000	Natural	130.8555	0.0350	48.9780	4.7040		
16	L_L-B9	91.2930	Rectangle	8.0000	0.0130	4.0000	2.0000		
17	L_L-SD1	597.0000	Natural	130.8555	0.0350	48.9780	4.7040		
18	L_L-A12	89.1860	Rectangle	8.0000	0.0130	4.0000	2.0000		
19	L_L-B12	88.5750	Rectangle	8.0000	0.0130	4.0000	2.0000		
20	L_L-A10	312.2900	Rectangle	8.0000	0.0130	4.0000	2.0000		
21	L_L-OFFB12	24.7010	Rectangle	8.0000	0.0130	4.0000	2.0000		
22	L_L-B10	305.7430	Rectangle	8.0000	0.0130	4.0000	2.0000		
23	L_L-A7	62.7790	Rectangle	6.0000	0.0130	3.0000	2.0000		
24	L_L-R11	59.1540	Rectangle	6.0000	0.0130	3.0000	2.0000		
25	228.1	749.2990	Rectangle	24.0000	0.0130	6.0000	4.0000		
26	ML Ditch	749.2990	Trapezoid	0.7500	0.0350	0.0100	0.5000	3.0000	3.0000
27	255.1	707.9150	Rectangle	10.0000	0.0130	5.0000	2.0000		
28	MLDitch2	707.9150	Trapezoid	0.7500	0.0350	0.0100	0.5000	3.0000	3.0000

Total length of all conduits .... 6936.9030 feet

==
| If there are messages about (sqrt(g*d)*dt/dx), or |
| the sqrt(wave celerity)*time step/conduit length |
| in the output file all it means is that the |
| program will lower the internal time step to |
| satisfy this condition (explicit condition). |
| You control the actual internal time step by |
| using the minimum courant time step factor in the |
| HYDRAULICS job control. The message put in words |
| states that the smallest conduit with the fastest |
| velocity will control the time step selection. |
| You have further control by using the modify |
| conduit option in the HYDRAULICS Job Control. |
==

Conduit Name	Courant Ratio
L_L-G3	0.15
L_L-F2	0.15
L_L-L23	0.03
L_L-E5	0.07
L_L-L22	0.11
L_L-D9	0.10
L_L-L21	0.11
L_L-D8	0.17
L_L-SD4	0.13
L_L-D7	0.06
L_L-C7	0.07
L_L-SD3	0.01
L_L-D6	0.09
L_L-C5	0.10
L_L-SD2	0.05
L_L-B9	0.09
L_L-SD1	0.02
L_L-A12	0.09
L_L-B12	0.09
L_L-A10	0.03
L_L-OFFB12	0.32
L_L-B10	0.03
L_L-A7	0.13
L_L-R11	0.14
228.1	0.02
ML Ditch	0.00
255.1	0.01
MLDitch2	0.00

==================
| Conduit Volume |
==================

Full pipe or full open conduit volume
Input full depth volume..... 2.6870E+05 cubic feet

==
| Table E3a - Junction Data |
==

Inp Num	Junction Name	Ground Elevation	Crown Elevation	Invert Elevation	Qinst cfs	Initial Depth-ft	Interface Flow (%)
1	DI-L25	102.8400	102.3000	93.3100	0.0000	0.0000	100.0000
2	CI-G3	101.9200	98.0500	96.5500	0.0000	0.0000	100.0000
3	DI-L24	103.0000	102.7100	94.5800	0.0000	0.0000	100.0000
4	CI-F2	102.6900	98.6700	97.1700	0.0000	0.0000	100.0000
5	MH-L23	104.7300	99.1200	95.1200	0.0000	0.0000	100.0000
6	CI-E5	103.8000	99.4000	97.9000	0.0000	0.0000	100.0000
7	MH-L22	104.8100	99.9200	95.2700	0.0000	0.0000	100.0000
8	CI-D9	103.5300	103.5300	97.0000	0.0000	0.0000	100.0000
9	L-21	104.0000	99.4100	95.4100	0.0000	0.0000	100.0000

10	CI-D8	102.8900	102.8900	97.3100	0.0000	0.0000	100.0000
11	SD-4	104.0000	100.8840	96.1800	0.0000	0.0000	100.0000
12	MH-D7	103.5800	103.5800	97.6000	0.0000	0.0000	100.0000
13	CI-C7	102.6000	102.6000	99.0000	0.0000	0.0000	100.0000
14	SD-3	104.0000	103.3440	98.6400	0.0000	0.0000	100.0000
15	CI-D6	103.2100	103.2100	98.2600	0.0000	0.0000	100.0000
16	CI-C5	103.0000	101.2900	99.2900	0.0000	0.0000	100.0000
17	SD-2	104.4640	103.7340	99.0300	0.0000	0.0000	100.0000
18	CI-B9	104.1000	101.8700	99.8700	0.0000	0.0000	100.0000
19	SD-1	105.1240	104.9440	100.2400	0.0000	0.0000	100.0000
20	CI-A12	105.1100	102.5300	100.5300	0.0000	0.0000	100.0000
21	CI-B12	104.8800	104.8800	100.5100	0.0000	0.0000	100.0000
22	DI-A10	104.0000	104.0000	100.8400	0.0000	0.0000	100.0000
23	Off-B12	104.8800	104.8800	100.5200	0.0000	0.0000	100.0000
24	DI-B10	104.0000	104.0000	100.7000	0.0000	0.0000	100.0000
25	DI-R13	102.1500	101.6300	96.2200	0.0000	0.0000	100.0000
26	CI-A7	101.2300	98.3100	96.3100	0.0000	0.0000	100.0000
27	DI-R12	102.6000	102.6000	97.2700	0.0000	0.0000	100.0000
28	CI-R11	101.9300	99.3400	97.3400	0.0000	0.0000	100.0000

Table E3b - Junction Data

Inp Num	Junction Name	X Coord.	Y Coord.	Type of Manhole	Type of Inlet	Maximum Capacity	Pavement Shape	Pavement Slope
1	DI-L25	3.057843E+06	13.87946E+06	No P	Normal		0	0.0000
2	CI-G3	3.057743E+06	13.87946E+06	No P	Normal		0	0.0000
3	DI-L24	3.057762E+06	13.88026E+06	No P	Normal		0	0.0000
4	CI-F2	3.057733E+06	13.88026E+06	No P	Normal		0	0.0000
5	MH-L23	3.057743E+06	13.88056E+06	No P	Normal		0	0.0000
6	CI-E5	3.057843E+06	13.88056E+06	No P	Normal		0	0.0000
7	MH-L22	3.057743E+06	13.88066E+06	No P	Normal		0	0.0000
8	CI-D9	3.057843E+06	13.88066E+06	F	Normal		0	0.0000
9	L-21	3.057842E+06	13.88080E+06	No P	Normal		0	0.0000
10	CI-D8	3.057843E+06	13.88076E+06	F	Normal		0	0.0000
11	SD-4	3.057843E+06	13.88086E+06	No P	Normal		0	0.0000
12	MH-D7	3.057943E+06	13.88076E+06	F	Normal		0	0.0000
13	CI-C7	3.057743E+06	13.88086E+06	F	Normal		0	0.0000
14	SD-3	3.057843E+06	13.88166E+06	No P	Normal		0	0.0000
15	CI-D6	3.057943E+06	13.88086E+06	F	Normal		0	0.0000
16	CI-C5	3.057943E+06	13.88166E+06	No P	Normal		0	0.0000
17	SD-2	3.057843E+06	13.88186E+06	No P	Normal		0	0.0000
18	CI-B9	3.057743E+06	13.88186E+06	No P	Normal		0	0.0000
19	SD-1	3.057843E+06	13.88246E+06	No P	Normal		0	0.0000
20	CI-A12	3.057743E+06	13.88246E+06	No P	Normal		0	0.0000
21	CI-B12	3.057911E+06	13.88246E+06	F	Normal		0	0.0000
22	DI-A10	3.057743E+06	13.88276E+06	F	Normal		0	0.0000
23	Off-B12	3.057943E+06	13.88246E+06	F	Normal		0	0.0000
24	DI-B10	3.057943E+06	13.88276E+06	F	Normal		0	0.0000
25	DI-R13	3.057943E+06	13.87936E+06	No P	Normal		0	0.0000
26	CI-A7	3.058043E+06	13.87936E+06	No P	Normal		0	0.0000
27	DI-R12	3.057943E+06	13.88006E+06	No P	Normal		0	0.0000
28	CI-R11	3.058043E+06	13.88006E+06	No P	Normal		0	0.0000

Table E4 - Conduit Connectivity

Input Number	Conduit Name	Upstream Node	Downstream Node	Upstream Elevation	Downstream Elevation	
1	L_L-G3	CI-G3	DI-L25	96.5500	96.4600	No Design
2	L_L-F2	CI-F2	DI-L24	97.1700	97.0800	No Design
3	L_L-L23	MH-L23	DI-L24	95.1200	94.5800	No Design
4	L_L-E5	CI-E5	MH-L23	97.9000	97.6200	No Design
5	L_L-L22	MH-L22	MH-L23	95.9200	95.1200	No Design
6	L_L-D9	CI-D9	MH-L22	97.0000	96.7700	No Design
7	L_L-L21	L-21	MH-L22	95.4100	95.2700	No Design
8	L_L-D8	CI-D8	CI-D9	97.3100	97.0000	No Design
9	L_L-SD4	SD-4	L-21	96.1800	95.4100	No Design
10	L_L-D7	MH-D7	CI-D8	97.6000	97.3100	No Design
11	L_L-C7	CI-C7	SD-4	99.0000	98.6600	No Design
12	L_L-SD3	SD-3	SD-4	98.6400	96.1800	No Design
13	L_L-D6	CI-D6	MH-D7	98.2600	97.6000	No Design
14	L_L-C5	CI-C5	SD-3	99.2900	99.1500	No Design
15	L_L-SD2	SD-2	SD-3	99.0300	98.6400	No Design
16	L_L-B9	CI-B9	SD-2	99.8700	99.3900	No Design
17	L_L-SD1	SD-1	SD-2	100.2400	99.0300	No Design
18	L_L-A12	CI-A12	SD-1	100.5300	100.4100	No Design
19	L_L-B12	CI-B12	SD-1	100.5100	100.4200	No Design
20	L_L-A10	DI-A10	CI-A12	100.8400	100.5300	No Design
21	L_L-OFFB12	Off-B12	CI-B12	100.5300	100.5100	No Design
22	L_L-B10	DI-B10	CI-B12	100.7000	100.5200	No Design
23	L_L-A7	CI-A7	DI-R13	96.3100	96.2200	No Design
24	L_L-R11	CI-R11	DI-R12	97.3400	97.2700	No Design
25	228.1	DI-L24	DI-L25	94.5800	93.3100	No Design
26	ML Ditch	DI-L24	DI-L25	102.2100	101.8000	No Design
27	255.1	DI-R12	DI-R13	97.2700	96.2200	No Design
28	MLDitch2	DI-R12	DI-R13	102.1000	101.1300	No Design

Storage Junction Data

STORAGE JUNCTION NUMBER OR NAME	JUNCTION TYPE	MAXIMUM OR CONSTANT SURFACE AREA (FT2)	PEAK OR CONSTANT VOLUME (CUBIC FEET)	CROWN ELEVATION (FT)	DEPTH STARTS FROM
CI-G3	Stage/Area	16683.4800	79343.7214	101.9200	Spill Crest
CI-F2	Stage/Area	16683.4800	81846.2434	102.6900	Spill Crest
CI-C7	Stage/Area	16683.4800	49813.9618	102.6000	Spill Crest
CI-D6	Stage/Area	16683.4800	72336.6598	103.2100	Spill Crest
CI-C5	Stage/Area	64468.8000	206892.8160	103.0000	Spill Crest
CI-B9	Stage/Area	16683.4800	60324.5542	104.1000	Spill Crest
CI-A12	Stage/Area	16683.4800	66163.7722	105.1100	Spill Crest
CI-B12	Stage/Area	16683.4800	62660.2414	104.8800	Spill Crest
Off-B12	Stage/Area	24262.9200	82430.6560	104.8800	Spill Crest
CI-A7	Stage/Area	16683.4800	71836.1554	101.2300	Spill Crest
CI-R11	Stage/Area	16683.4800	66330.6070	101.9300	Spill Crest

Variable storage data for node | CI-G3

Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	96.5500	0.0000	4.3560	0.0000	0.0001	0.0000
2	96.5750	0.0250	150.8265	1.5068	0.0035	0.0000
3	96.6000	0.0500	297.2970	7.0058	0.0068	0.0002
4	96.6250	0.0750	443.7675	16.2082	0.0102	0.0004
5	96.6500	0.1000	590.2380	29.0898	0.0135	0.0007
6	96.6750	0.1250	736.7085	45.6428	0.0169	0.0010
7	96.7000	0.1500	883.1790	65.8638	0.0203	0.0015
8	96.7250	0.1750	1029.6495	89.7507	0.0236	0.0021
9	96.7500	0.2000	1176.1200	117.3026	0.0270	0.0027
10	96.7750	0.2250	1475.5950	150.3783	0.0339	0.0035
11	96.8000	0.2500	1775.0700	190.9540	0.0408	0.0044
12	96.8250	0.2750	2074.5450	239.0256	0.0476	0.0055
13	96.8500	0.3000	2374.0200	294.5906	0.0545	0.0068
14	96.8750	0.3250	2673.4950	357.6475	0.0614	0.0082
15	96.9000	0.3500	2972.9700	428.1952	0.0683	0.0098
16	96.9250	0.3750	3272.4450	506.2330	0.0751	0.0116
17	96.9500	0.4000	3571.9200	591.7602	0.0820	0.0136
18	96.9625	0.4125	3773.3850	637.6626	0.0866	0.0146
19	96.9750	0.4250	3974.8500	686.0836	0.0912	0.0158
20	96.9875	0.4375	4176.3150	737.0232	0.0959	0.0169
21	97.0000	0.4500	4377.7800	790.4814	0.1005	0.0181
22	97.0125	0.4625	4579.2450	846.4581	0.1051	0.0194
23	97.0250	0.4750	4780.7100	904.9533	0.1098	0.0208
24	97.0375	0.4875	4982.1750	965.9670	0.1144	0.0222
25	97.0500	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	97.0625	0.5125	5439.5550	1095.8877	0.1249	0.0252
27	97.0750	0.5250	5695.4700	1165.4755	0.1308	0.0268
28	97.0875	0.5375	5951.3850	1238.2625	0.1366	0.0284
29	97.1000	0.5500	6207.3000	1314.2486	0.1425	0.0302
30	97.1125	0.5625	6463.2150	1393.4340	0.1484	0.0320
31	97.1250	0.5750	6719.1300	1475.8184	0.1542	0.0339
32	97.1375	0.5875	6975.0450	1561.4020	0.1601	0.0358
33	97.1500	0.6000	7230.9600	1650.1848	0.1660	0.0379
34	97.1750	0.6250	7824.4650	1838.3288	0.1796	0.0422
35	97.2000	0.6500	8417.9700	2041.3141	0.1932	0.0469
36	97.2250	0.6750	9011.4750	2259.1400	0.2069	0.0519
37	97.2500	0.7000	9604.9800	2491.8063	0.2205	0.0572
38	97.2750	0.7250	10198.4850	2739.3125	0.2341	0.0629
39	97.3000	0.7500	10791.9900	3001.6585	0.2478	0.0689
40	97.3250	0.7750	11385.4950	3278.8440	0.2614	0.0753
41	97.3500	0.8000	11979.0000	3570.8687	0.2750	0.0820
42	97.3750	0.8250	12567.0600	3877.6651	0.2885	0.0890
43	97.4000	0.8500	13155.1200	4199.1644	0.3020	0.0964
44	97.4250	0.8750	13743.1800	4535.3663	0.3155	0.1041
45	97.4500	0.9000	14331.2400	4886.2709	0.3290	0.1122
46	97.4750	0.9250	14919.3000	5251.8780	0.3425	0.1206
47	97.5000	0.9500	15507.3600	5632.1876	0.3560	0.1293
48	97.5250	0.9750	16095.4200	6027.1995	0.3695	0.1384
49	97.5500	1.0000	16683.4800	6436.9138	0.3830	0.1478
50	101.9200	5.3700	16683.4800	79343.7214	0.3830	1.8215

Variable storage data for node | CI-F2

Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	97.1700	0.0000	4.3560	0.0000	0.0001	0.0000
2	97.1950	0.0250	150.8265	1.5068	0.0035	0.0000
3	97.2200	0.0500	297.2970	7.0058	0.0068	0.0002
4	97.2450	0.0750	443.7675	16.2082	0.0102	0.0004
5	97.2700	0.1000	590.2380	29.0898	0.0135	0.0007
6	97.2950	0.1250	736.7085	45.6428	0.0169	0.0010
7	97.3200	0.1500	883.1790	65.8638	0.0203	0.0015
8	97.3450	0.1750	1029.6495	89.7507	0.0236	0.0021
9	97.3700	0.2000	1176.1200	117.3026	0.0270	0.0027
10	97.3950	0.2250	1475.5950	150.3783	0.0339	0.0035
11	97.4200	0.2500	1775.0700	190.9540	0.0408	0.0044
12	97.4450	0.2750	2074.5450	239.0256	0.0476	0.0055
13	97.4700	0.3000	2374.0200	294.5906	0.0545	0.0068
14	97.4950	0.3250	2673.4950	357.6475	0.0614	0.0082
15	97.5200	0.3500	2972.9700	428.1952	0.0683	0.0098
16	97.5450	0.3750	3272.4450	506.2330	0.0751	0.0116
17	97.5700	0.4000	3571.9200	591.7602	0.0820	0.0136
18	97.5825	0.4125	3773.3850	637.6626	0.0866	0.0146

19	97.5950	0.4250	3974.8500	686.0836	0.0912	0.0158
20	97.6075	0.4375	4176.3150	737.0232	0.0959	0.0169
21	97.6200	0.4500	4377.7800	790.4814	0.1005	0.0181
22	97.6325	0.4625	4579.2450	846.4581	0.1051	0.0194
23	97.6450	0.4750	4780.7100	904.9533	0.1098	0.0208
24	97.6575	0.4875	4982.1750	965.9670	0.1144	0.0222
25	97.6700	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	97.6825	0.5125	5439.5550	1095.8877	0.1249	0.0252
27	97.6950	0.5250	5695.4700	1165.4755	0.1308	0.0268
28	97.7075	0.5375	5951.3850	1238.2625	0.1366	0.0284
29	97.7200	0.5500	6207.3000	1314.2486	0.1425	0.0302
30	97.7325	0.5625	6463.2150	1393.4340	0.1484	0.0320
31	97.7450	0.5750	6719.1300	1475.8184	0.1542	0.0339
32	97.7575	0.5875	6975.0450	1561.4020	0.1601	0.0358
33	97.7700	0.6000	7230.9600	1650.1848	0.1660	0.0379
34	97.7950	0.6250	7824.4650	1838.3288	0.1796	0.0422
35	97.8200	0.6500	8417.9700	2041.3141	0.1932	0.0469
36	97.8450	0.6750	9011.4750	2259.1400	0.2069	0.0519
37	97.8700	0.7000	9604.9800	2491.8063	0.2205	0.0572
38	97.8950	0.7250	10198.4850	2739.3125	0.2341	0.0629
39	97.9200	0.7500	10791.9900	3001.6585	0.2478	0.0689
40	97.9450	0.7750	11385.4950	3278.8440	0.2614	0.0753
41	97.9700	0.8000	11979.0000	3570.8687	0.2750	0.0820
42	97.9950	0.8250	12567.0600	3877.6651	0.2885	0.0890
43	98.0200	0.8500	13155.1200	4199.1644	0.3020	0.0964
44	98.0450	0.8750	13743.1800	4535.3663	0.3155	0.1041
45	98.0700	0.9000	14331.2400	4886.2709	0.3290	0.1122
46	98.0950	0.9250	14919.3000	5251.8780	0.3425	0.1206
47	98.1200	0.9500	15507.3600	5632.1876	0.3560	0.1293
48	98.1450	0.9750	16095.4200	6027.1995	0.3695	0.1384
49	98.1700	1.0000	16683.4800	6436.9138	0.3830	0.1478
50	102.6900	5.5200	16683.4800	81846.2434	0.3830	1.8789

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| Variable storage data for node | CI-C7
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	99.0000	0.0000	4.3560	0.0000	0.0001	0.0000
2	99.0250	0.0250	150.8265	1.5068	0.0035	0.0000
3	99.0500	0.0500	297.2970	7.0058	0.0068	0.0002
4	99.0750	0.0750	443.7675	16.2082	0.0102	0.0004
5	99.1000	0.1000	590.2380	29.0898	0.0135	0.0007
6	99.1250	0.1250	736.7085	45.6428	0.0169	0.0010
7	99.1500	0.1500	883.1790	65.8638	0.0203	0.0015
8	99.1750	0.1750	1029.6495	89.7507	0.0236	0.0021
9	99.2000	0.2000	1176.1200	117.3026	0.0270	0.0027
10	99.2250	0.2250	1475.5950	150.3783	0.0339	0.0035
11	99.2500	0.2500	1775.0700	190.9540	0.0408	0.0044
12	99.2750	0.2750	2074.5450	239.0256	0.0476	0.0055
13	99.3000	0.3000	2374.0200	294.5906	0.0545	0.0068
14	99.3250	0.3250	2673.4950	357.6475	0.0614	0.0082
15	99.3500	0.3500	2972.9700	428.1952	0.0683	0.0098
16	99.3750	0.3750	3272.4450	506.2330	0.0751	0.0116
17	99.4000	0.4000	3571.9200	591.7602	0.0820	0.0136
18	99.4125	0.4125	3773.3850	637.6626	0.0866	0.0146
19	99.4250	0.4250	3974.8500	686.0836	0.0912	0.0158
20	99.4375	0.4375	4176.3150	737.0232	0.0959	0.0169
21	99.4500	0.4500	4377.7800	790.4814	0.1005	0.0181
22	99.4625	0.4625	4579.2450	846.4581	0.1051	0.0194
23	99.4750	0.4750	4780.7100	904.9533	0.1098	0.0208
24	99.4875	0.4875	4982.1750	965.9670	0.1144	0.0222
25	99.5000	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	99.5125	0.5125	5439.5550	1095.8877	0.1249	0.0252
27	99.5250	0.5250	5695.4700	1165.4755	0.1308	0.0268
28	99.5375	0.5375	5951.3850	1238.2625	0.1366	0.0284
29	99.5500	0.5500	6207.3000	1314.2486	0.1425	0.0302
30	99.5625	0.5625	6463.2150	1393.4340	0.1484	0.0320
31	99.5750	0.5750	6719.1300	1475.8184	0.1542	0.0339
32	99.5875	0.5875	6975.0450	1561.4020	0.1601	0.0358
33	99.6000	0.6000	7230.9600	1650.1848	0.1660	0.0379
34	99.6250	0.6250	7824.4650	1838.3288	0.1796	0.0422
35	99.6500	0.6500	8417.9700	2041.3141	0.1932	0.0469
36	99.6750	0.6750	9011.4750	2259.1400	0.2069	0.0519
37	99.7000	0.7000	9604.9800	2491.8063	0.2205	0.0572
38	99.7250	0.7250	10198.4850	2739.3125	0.2341	0.0629
39	99.7500	0.7500	10791.9900	3001.6585	0.2478	0.0689
40	99.7750	0.7750	11385.4950	3278.8440	0.2614	0.0753
41	99.8000	0.8000	11979.0000	3570.8687	0.2750	0.0820
42	99.8250	0.8250	12567.0600	3877.6651	0.2885	0.0890
43	99.8500	0.8500	13155.1200	4199.1644	0.3020	0.0964
44	99.8750	0.8750	13743.1800	4535.3663	0.3155	0.1041
45	99.9000	0.9000	14331.2400	4886.2709	0.3290	0.1122
46	99.9250	0.9250	14919.3000	5251.8780	0.3425	0.1206
47	99.9500	0.9500	15507.3600	5632.1876	0.3560	0.1293
48	99.9750	0.9750	16095.4200	6027.1995	0.3695	0.1384
49	100.0000	1.0000	16683.4800	6436.9138	0.3830	0.1478
50	102.6000	3.6000	16683.4800	49813.9618	0.3830	1.1436

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| Variable storage data for node | CI-D6
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	98.2600	0.0000	4.3560	0.0000	0.0001	0.0000
2	98.2850	0.0250	150.8265	1.5068	0.0035	0.0000

3	98.3100	0.0500	297.2970	7.0058	0.0068	0.0002
4	98.3350	0.0750	443.7675	16.2082	0.0102	0.0004
5	98.3600	0.1000	590.2380	29.0898	0.0135	0.0007
6	98.3850	0.1250	736.7085	45.6428	0.0169	0.0010
7	98.4100	0.1500	883.1790	65.8638	0.0203	0.0015
8	98.4350	0.1750	1029.6495	89.7507	0.0236	0.0021
9	98.4600	0.2000	1176.1200	117.3026	0.0270	0.0027
10	98.4850	0.2250	1475.5950	150.3783	0.0339	0.0035
11	98.5100	0.2500	1775.0700	190.9540	0.0408	0.0044
12	98.5350	0.2750	2074.5450	239.0256	0.0476	0.0055
13	98.5600	0.3000	2374.0200	294.5906	0.0545	0.0068
14	98.5850	0.3250	2673.4950	357.6475	0.0614	0.0082
15	98.6100	0.3500	2972.9700	428.1952	0.0683	0.0098
16	98.6350	0.3750	3272.4450	506.2330	0.0751	0.0116
17	98.6600	0.4000	3571.9200	591.7602	0.0820	0.0136
18	98.6725	0.4125	3773.3850	637.6626	0.0866	0.0146
19	98.6850	0.4250	3974.8500	686.0836	0.0912	0.0158
20	98.6975	0.4375	4176.3150	737.0232	0.0959	0.0169
21	98.7100	0.4500	4377.7800	790.4814	0.1005	0.0181
22	98.7225	0.4625	4579.2450	846.4581	0.1051	0.0194
23	98.7350	0.4750	4780.7100	904.9533	0.1098	0.0208
24	98.7475	0.4875	4982.1750	965.9670	0.1144	0.0222
25	98.7600	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	98.7725	0.5125	5439.5550	1095.8877	0.1249	0.0252
27	98.7850	0.5250	5695.4700	1165.4755	0.1308	0.0268
28	98.7975	0.5375	5951.3850	1238.2625	0.1366	0.0284
29	98.8100	0.5500	6207.3000	1314.2486	0.1425	0.0302
30	98.8225	0.5625	6463.2150	1393.4340	0.1484	0.0320
31	98.8350	0.5750	6719.1300	1475.8184	0.1542	0.0339
32	98.8475	0.5875	6975.0450	1561.4020	0.1601	0.0358
33	98.8600	0.6000	7230.9600	1650.1848	0.1660	0.0379
34	98.8850	0.6250	7824.4650	1838.3288	0.1796	0.0422
35	98.9100	0.6500	8417.9700	2041.3141	0.1932	0.0469
36	98.9350	0.6750	9011.4750	2259.1400	0.2069	0.0519
37	98.9600	0.7000	9604.9800	2491.8063	0.2205	0.0572
38	98.9850	0.7250	10198.4850	2739.3125	0.2341	0.0629
39	99.0100	0.7500	10791.9900	3001.6585	0.2478	0.0689
40	99.0350	0.7750	11385.4950	3278.8440	0.2614	0.0753
41	99.0600	0.8000	11979.0000	3570.8687	0.2750	0.0820
42	99.0850	0.8250	12567.0600	3877.6651	0.2885	0.0890
43	99.1100	0.8500	13155.1200	4199.1644	0.3020	0.0964
44	99.1350	0.8750	13743.1800	4535.3663	0.3155	0.1041
45	99.1600	0.9000	14331.2400	4886.2709	0.3290	0.1122
46	99.1850	0.9250	14919.3000	5251.8780	0.3425	0.1206
47	99.2100	0.9500	15507.3600	5632.1876	0.3560	0.1293
48	99.2350	0.9750	16095.4200	6027.1995	0.3695	0.1384
49	99.2600	1.0000	16683.4800	6436.9138	0.3830	0.1478
50	103.2100	4.9500	16683.4800	72336.6598	0.3830	1.6606

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| Variable storage data for node | CI-C5
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	99.2900	0.0000	43.5600	0.0000	0.0010	0.0000
2	99.3525	0.0625	4067.4150	94.4146	0.0934	0.0022
3	99.4150	0.1250	8091.2700	467.2366	0.1857	0.0107
4	99.4775	0.1875	12115.1250	1094.4708	0.2781	0.0251
5	99.5400	0.2500	16138.9800	1974.4115	0.3705	0.0453
6	99.6025	0.3125	20162.8350	3106.5130	0.4629	0.0713
7	99.6650	0.3750	24186.6900	4490.5303	0.5553	0.1031
8	99.7275	0.4375	28210.5450	6126.3321	0.6476	0.1406
9	99.7900	0.5000	32234.4000	8013.8399	0.7400	0.1840
10	99.8525	0.5625	36263.7000	10153.1700	0.8325	0.2331
11	99.9150	0.6250	40293.0000	12544.4616	0.9250	0.2880
12	99.9775	0.6875	44322.3000	15187.6898	1.0175	0.3487
13	100.0400	0.7500	48351.6000	18082.8363	1.1100	0.4151
14	100.1025	0.8125	52380.9000	21229.8871	1.2025	0.4874
15	100.1650	0.8750	56410.2000	24628.8315	1.2950	0.5654
16	100.2275	0.9375	60439.5000	28279.6608	1.3875	0.6492
17	100.2900	1.0000	64468.8000	32182.3680	1.4800	0.7388
18	103.0000	3.7100	64468.8000	206892.8160	1.4800	4.7496

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| Variable storage data for node | CI-B9
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	99.8700	0.0000	4.3560	0.0000	0.0001	0.0000
2	99.8950	0.0250	150.8265	1.5068	0.0035	0.0000
3	99.9200	0.0500	297.2970	7.0058	0.0068	0.0002
4	99.9450	0.0750	443.7675	16.2082	0.0102	0.0004
5	99.9700	0.1000	590.2380	29.0898	0.0135	0.0007
6	99.9950	0.1250	736.7085	45.6428	0.0169	0.0010
7	100.0200	0.1500	883.1790	65.8638	0.0203	0.0015
8	100.0450	0.1750	1029.6495	89.7507	0.0236	0.0021
9	100.0700	0.2000	1176.1200	117.3026	0.0270	0.0027
10	100.0950	0.2250	1475.5950	150.3783	0.0339	0.0035
11	100.1200	0.2500	1775.0700	190.9540	0.0408	0.0044
12	100.1450	0.2750	2074.5450	239.0256	0.0476	0.0055
13	100.1700	0.3000	2374.0200	294.5906	0.0545	0.0068
14	100.1950	0.3250	2673.4950	357.6475	0.0614	0.0082
15	100.2200	0.3500	2972.9700	428.1952	0.0683	0.0098
16	100.2450	0.3750	3272.4450	506.2330	0.0751	0.0116
17	100.2700	0.4000	3571.9200	591.7602	0.0820	0.0136
18	100.2825	0.4125	3773.3850	637.6626	0.0866	0.0146

19	100.2950	0.4250	3974.8500	686.0836	0.0912	0.0158
20	100.3075	0.4375	4176.3150	737.0232	0.0959	0.0169
21	100.3200	0.4500	4377.7800	790.4814	0.1005	0.0181
22	100.3325	0.4625	4579.2450	846.4581	0.1051	0.0194
23	100.3450	0.4750	4780.7100	904.9533	0.1098	0.0208
24	100.3575	0.4875	4982.1750	965.9670	0.1144	0.0222
25	100.3700	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	100.3825	0.5125	5439.5550	1095.8877	0.1249	0.0252
27	100.3950	0.5250	5695.4700	1165.4755	0.1308	0.0268
28	100.4075	0.5375	5951.3850	1238.2625	0.1366	0.0284
29	100.4200	0.5500	6207.3000	1314.2486	0.1425	0.0302
30	100.4325	0.5625	6463.2150	1393.4340	0.1484	0.0320
31	100.4450	0.5750	6719.1300	1475.8184	0.1542	0.0339
32	100.4575	0.5875	6975.0450	1561.4020	0.1601	0.0358
33	100.4700	0.6000	7230.9600	1650.1848	0.1660	0.0379
34	100.4950	0.6250	7824.4650	1838.3288	0.1796	0.0422
35	100.5200	0.6500	8417.9700	2041.3141	0.1932	0.0469
36	100.5450	0.6750	9011.4750	2259.1400	0.2069	0.0519
37	100.5700	0.7000	9604.9800	2491.8063	0.2205	0.0572
38	100.5950	0.7250	10198.4850	2739.3125	0.2341	0.0629
39	100.6200	0.7500	10791.9900	3001.6585	0.2478	0.0689
40	100.6450	0.7750	11385.4950	3278.8440	0.2614	0.0753
41	100.6700	0.8000	11979.0000	3570.8687	0.2750	0.0820
42	100.6950	0.8250	12567.0600	3877.6651	0.2885	0.0890
43	100.7200	0.8500	13155.1200	4199.1644	0.3020	0.0964
44	100.7450	0.8750	13743.1800	4535.3663	0.3155	0.1041
45	100.7700	0.9000	14331.2400	4886.2709	0.3290	0.1122
46	100.7950	0.9250	14919.3000	5251.8780	0.3425	0.1206
47	100.8200	0.9500	15507.3600	5632.1876	0.3560	0.1293
48	100.8450	0.9750	16095.4200	6027.1995	0.3695	0.1384
49	100.8700	1.0000	16683.4800	6436.9138	0.3830	0.1478
50	104.1000	4.2300	16683.4800	60324.5542	0.3830	1.3849

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| Variable storage data for node | CI-A12
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	100.5300	0.0000	4.3560	0.0000	0.0001	0.0000
2	100.5550	0.0250	150.8265	1.5068	0.0035	0.0000
3	100.5800	0.0500	297.2970	7.0058	0.0068	0.0002
4	100.6050	0.0750	443.7675	16.2082	0.0102	0.0004
5	100.6300	0.1000	590.2380	29.0898	0.0135	0.0007
6	100.6550	0.1250	736.7085	45.6428	0.0169	0.0010
7	100.6800	0.1500	883.1790	65.8638	0.0203	0.0015
8	100.7050	0.1750	1029.6495	89.7507	0.0236	0.0021
9	100.7300	0.2000	1176.1200	117.3026	0.0270	0.0027
10	100.7550	0.2250	1475.5950	150.3783	0.0339	0.0035
11	100.7800	0.2500	1775.0700	190.9540	0.0408	0.0044
12	100.8050	0.2750	2074.5450	239.0256	0.0476	0.0055
13	100.8300	0.3000	2374.0200	294.5906	0.0545	0.0068
14	100.8550	0.3250	2673.4950	357.6475	0.0614	0.0082
15	100.8800	0.3500	2972.9700	428.1952	0.0683	0.0098
16	100.9050	0.3750	3272.4450	506.2330	0.0751	0.0116
17	100.9300	0.4000	3571.9200	591.7602	0.0820	0.0136
18	100.9425	0.4125	3773.3850	637.6626	0.0866	0.0146
19	100.9550	0.4250	3974.8500	686.0836	0.0912	0.0158
20	100.9675	0.4375	4176.3150	737.0232	0.0959	0.0169
21	100.9800	0.4500	4377.7800	790.4814	0.1005	0.0181
22	100.9925	0.4625	4579.2450	846.4581	0.1051	0.0194
23	101.0050	0.4750	4780.7100	904.9533	0.1098	0.0208
24	101.0175	0.4875	4982.1750	965.9670	0.1144	0.0222
25	101.0300	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	101.0425	0.5125	5439.5550	1095.8877	0.1249	0.0252
27	101.0550	0.5250	5695.4700	1165.4755	0.1308	0.0268
28	101.0675	0.5375	5951.3850	1238.2625	0.1366	0.0284
29	101.0800	0.5500	6207.3000	1314.2486	0.1425	0.0302
30	101.0925	0.5625	6463.2150	1393.4340	0.1484	0.0320
31	101.1050	0.5750	6719.1300	1475.8184	0.1542	0.0339
32	101.1175	0.5875	6975.0450	1561.4020	0.1601	0.0358
33	101.1300	0.6000	7230.9600	1650.1848	0.1660	0.0379
34	101.1550	0.6250	7824.4650	1838.3288	0.1796	0.0422
35	101.1800	0.6500	8417.9700	2041.3141	0.1932	0.0469
36	101.2050	0.6750	9011.4750	2259.1400	0.2069	0.0519
37	101.2300	0.7000	9604.9800	2491.8063	0.2205	0.0572
38	101.2550	0.7250	10198.4850	2739.3125	0.2341	0.0629
39	101.2800	0.7500	10791.9900	3001.6585	0.2478	0.0689
40	101.3050	0.7750	11385.4950	3278.8440	0.2614	0.0753
41	101.3300	0.8000	11979.0000	3570.8687	0.2750	0.0820
42	101.3550	0.8250	12567.0600	3877.6651	0.2885	0.0890
43	101.3800	0.8500	13155.1200	4199.1644	0.3020	0.0964
44	101.4050	0.8750	13743.1800	4535.3663	0.3155	0.1041
45	101.4300	0.9000	14331.2400	4886.2709	0.3290	0.1122
46	101.4550	0.9250	14919.3000	5251.8780	0.3425	0.1206
47	101.4800	0.9500	15507.3600	5632.1876	0.3560	0.1293
48	101.5050	0.9750	16095.4200	6027.1995	0.3695	0.1384
49	101.5300	1.0000	16683.4800	6436.9138	0.3830	0.1478
50	105.1100	4.5800	16683.4800	66163.7722	0.3830	1.5189

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| Variable storage data for node | CI-B12
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	100.5100	0.0000	4.3560	0.0000	0.0001	0.0000
2	100.5350	0.0250	150.8265	1.5068	0.0035	0.0000

3	100.5600	0.0500	297.2970	7.0058	0.0068	0.0002
4	100.5850	0.0750	443.7675	16.2082	0.0102	0.0004
5	100.6100	0.1000	590.2380	29.0898	0.0135	0.0007
6	100.6350	0.1250	736.7085	45.6428	0.0169	0.0010
7	100.6600	0.1500	883.1790	65.8638	0.0203	0.0015
8	100.6850	0.1750	1029.6495	89.7507	0.0236	0.0021
9	100.7100	0.2000	1176.1200	117.3026	0.0270	0.0027
10	100.7350	0.2250	1475.5950	150.3783	0.0339	0.0035
11	100.7600	0.2500	1775.0700	190.9540	0.0408	0.0044
12	100.7850	0.2750	2074.5450	239.0256	0.0476	0.0055
13	100.8100	0.3000	2374.0200	294.5906	0.0545	0.0068
14	100.8350	0.3250	2673.4950	357.6475	0.0614	0.0082
15	100.8600	0.3500	2972.9700	428.1952	0.0683	0.0098
16	100.8850	0.3750	3272.4450	506.2330	0.0751	0.0116
17	100.9100	0.4000	3571.9200	591.7602	0.0820	0.0136
18	100.9225	0.4125	3773.3850	637.6626	0.0866	0.0146
19	100.9350	0.4250	3974.8500	686.0836	0.0912	0.0158
20	100.9475	0.4375	4176.3150	737.0232	0.0959	0.0169
21	100.9600	0.4500	4377.7800	790.4814	0.1005	0.0181
22	100.9725	0.4625	4579.2450	846.4581	0.1051	0.0194
23	100.9850	0.4750	4780.7100	904.9533	0.1098	0.0208
24	100.9975	0.4875	4982.1750	965.9670	0.1144	0.0222
25	101.0100	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	101.0225	0.5125	5439.5550	1095.8877	0.1249	0.0252
27	101.0350	0.5250	5695.4700	1165.4755	0.1308	0.0268
28	101.0475	0.5375	5951.3850	1238.2625	0.1366	0.0284
29	101.0600	0.5500	6207.3000	1314.2486	0.1425	0.0302
30	101.0725	0.5625	6463.2150	1393.4340	0.1484	0.0320
31	101.0850	0.5750	6719.1300	1475.8184	0.1542	0.0339
32	101.0975	0.5875	6975.0450	1561.4020	0.1601	0.0358
33	101.1100	0.6000	7230.9600	1650.1848	0.1660	0.0379
34	101.1350	0.6250	7824.4650	1838.3288	0.1796	0.0422
35	101.1600	0.6500	8417.9700	2041.3141	0.1932	0.0469
36	101.1850	0.6750	9011.4750	2259.1400	0.2069	0.0519
37	101.2100	0.7000	9604.9800	2491.8063	0.2205	0.0572
38	101.2350	0.7250	10198.4850	2739.3125	0.2341	0.0629
39	101.2600	0.7500	10791.9900	3001.6585	0.2478	0.0689
40	101.2850	0.7750	11385.4950	3278.8440	0.2614	0.0753
41	101.3100	0.8000	11979.0000	3570.8687	0.2750	0.0820
42	101.3350	0.8250	12567.0600	3877.6651	0.2885	0.0890
43	101.3600	0.8500	13155.1200	4199.1644	0.3020	0.0964
44	101.3850	0.8750	13743.1800	4535.3663	0.3155	0.1041
45	101.4100	0.9000	14331.2400	4886.2709	0.3290	0.1122
46	101.4350	0.9250	14919.3000	5251.8780	0.3425	0.1206
47	101.4600	0.9500	15507.3600	5632.1876	0.3560	0.1293
48	101.4850	0.9750	16095.4200	6027.1995	0.3695	0.1384
49	101.5100	1.0000	16683.4800	6436.9138	0.3830	0.1478
50	104.8800	4.3700	16683.4800	62660.2414	0.3830	1.4385

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| Variable storage data for node | Off-B12
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	100.5200	0.0000	43.5600	0.0000	0.0010	0.0000
2	100.5212	0.0013	1148.8950	0.5901	0.0264	0.0000
3	100.5225	0.0025	2254.2300	2.6786	0.0517	0.0001
4	100.5237	0.0037	3359.5650	6.1643	0.0771	0.0001
5	100.5250	0.0050	4464.9000	11.0383	0.1025	0.0003
6	100.5262	0.0063	5570.2350	17.2975	0.1279	0.0004
7	100.5275	0.0075	6675.5700	24.9407	0.1532	0.0006
8	100.5288	0.0088	7780.9050	33.9672	0.1786	0.0008
9	100.5300	0.0100	8886.2400	44.3765	0.2040	0.0010
10	100.6538	0.1338	9512.4150	1182.5735	0.2184	0.0271
11	100.7775	0.2575	10138.5900	2398.2736	0.2327	0.0551
12	100.9012	0.3812	10764.7650	3691.4752	0.2471	0.0847
13	101.0250	0.5050	11390.9400	5062.1769	0.2615	0.1162
14	101.1487	0.6288	12017.1150	6510.3775	0.2759	0.1495
15	101.2725	0.7525	12643.2900	8036.0761	0.2903	0.1845
16	101.3962	0.8762	13269.4650	9639.2717	0.3046	0.2213
17	101.5200	1.0000	13895.6400	11319.9637	0.3190	0.2599
18	101.6450	1.1250	14538.1500	13096.9244	0.3337	0.3007
19	101.7700	1.2500	15180.6600	14954.2053	0.3485	0.3433
20	101.8950	1.3750	15823.1700	16891.8059	0.3632	0.3878
21	102.0200	1.5000	16465.6800	18909.7259	0.3780	0.4341
22	102.1450	1.6250	17108.1900	21007.9646	0.3927	0.4823
23	102.2700	1.7500	17750.7000	23186.5219	0.4075	0.5323
24	102.3950	1.8750	18393.2100	25445.3973	0.4222	0.5841
25	102.5200	2.0000	19035.7200	27784.5905	0.4370	0.6378
26	102.6450	2.1250	19689.1200	30204.7782	0.4520	0.6934
27	102.7700	2.2500	20342.5200	32706.6446	0.4670	0.7508
28	102.8950	2.3750	20995.9200	35290.1895	0.4820	0.8102
29	103.0200	2.5000	21649.3200	37955.4127	0.4970	0.8713
30	103.1450	2.6250	22302.7200	40702.3140	0.5120	0.9344
31	103.2700	2.7500	22956.1200	43530.8932	0.5270	0.9993
32	103.3950	2.8750	23609.5200	46441.1502	0.5420	1.0661
33	103.5200	3.0000	24262.9200	49433.0848	0.5570	1.1348
34	104.8800	4.3600	24262.9200	82430.6560	0.5570	1.8923

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| Variable storage data for node | CI-A7
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	96.3100	0.0000	4.3560	0.0000	0.0001	0.0000
2	96.3350	0.0250	150.8265	1.5068	0.0035	0.0000

3	96.3600	0.0500	297.2970	7.0058	0.0068	0.0002
4	96.3850	0.0750	443.7675	16.2082	0.0102	0.0004
5	96.4100	0.1000	590.2380	29.0898	0.0135	0.0007
6	96.4350	0.1250	736.7085	45.6428	0.0169	0.0010
7	96.4600	0.1500	883.1790	65.8638	0.0203	0.0015
8	96.4850	0.1750	1029.6495	89.7507	0.0236	0.0021
9	96.5100	0.2000	1176.1200	117.3026	0.0270	0.0027
10	96.5350	0.2250	1475.5950	150.3783	0.0339	0.0035
11	96.5600	0.2500	1775.0700	190.9540	0.0408	0.0044
12	96.5850	0.2750	2074.5450	239.0256	0.0476	0.0055
13	96.6100	0.3000	2374.0200	294.5906	0.0545	0.0068
14	96.6350	0.3250	2673.4950	357.6475	0.0614	0.0082
15	96.6600	0.3500	2972.9700	428.1952	0.0683	0.0098
16	96.6850	0.3750	3272.4450	506.2330	0.0751	0.0116
17	96.7100	0.4000	3571.9200	591.7602	0.0820	0.0136
18	96.7225	0.4125	3773.3850	637.6626	0.0866	0.0146
19	96.7350	0.4250	3974.8500	686.0836	0.0912	0.0158
20	96.7475	0.4375	4176.3150	737.0232	0.0959	0.0169
21	96.7600	0.4500	4377.7800	790.4814	0.1005	0.0181
22	96.7725	0.4625	4579.2450	846.4581	0.1051	0.0194
23	96.7850	0.4750	4780.7100	904.9533	0.1098	0.0208
24	96.7975	0.4875	4982.1750	965.9670	0.1144	0.0222
25	96.8100	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	96.8225	0.5125	5439.5550	1095.8877	0.1249	0.0252
27	96.8350	0.5250	5695.4700	1165.4755	0.1308	0.0268
28	96.8475	0.5375	5951.3850	1238.2625	0.1366	0.0284
29	96.8600	0.5500	6207.3000	1314.2486	0.1425	0.0302
30	96.8725	0.5625	6463.2150	1393.4340	0.1484	0.0320
31	96.8850	0.5750	6719.1300	1475.8184	0.1542	0.0339
32	96.8975	0.5875	6975.0450	1561.4020	0.1601	0.0358
33	96.9100	0.6000	7230.9600	1650.1848	0.1660	0.0379
34	96.9350	0.6250	7824.4650	1838.3288	0.1796	0.0422
35	96.9600	0.6500	8417.9700	2041.3141	0.1932	0.0469
36	96.9850	0.6750	9011.4750	2259.1400	0.2069	0.0519
37	97.0100	0.7000	9604.9800	2491.8063	0.2205	0.0572
38	97.0350	0.7250	10198.4850	2739.3125	0.2341	0.0629
39	97.0600	0.7500	10791.9900	3001.6585	0.2478	0.0689
40	97.0850	0.7750	11385.4950	3278.8440	0.2614	0.0753
41	97.1100	0.8000	11979.0000	3570.8687	0.2750	0.0820
42	97.1350	0.8250	12567.0600	3877.6651	0.2885	0.0890
43	97.1600	0.8500	13155.1200	4199.1644	0.3020	0.0964
44	97.1850	0.8750	13743.1800	4535.3663	0.3155	0.1041
45	97.2100	0.9000	14331.2400	4886.2709	0.3290	0.1122
46	97.2350	0.9250	14919.3000	5251.8780	0.3425	0.1206
47	97.2600	0.9500	15507.3600	5632.1876	0.3560	0.1293
48	97.2850	0.9750	16095.4200	6027.1995	0.3695	0.1384
49	97.3100	1.0000	16683.4800	6436.9138	0.3830	0.1478
50	101.2300	4.9200	16683.4800	71836.1554	0.3830	1.6491

==================================
| Variable storage data for node | CI-R11
==================================

Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	97.3400	0.0000	4.3560	0.0000	0.0001	0.0000
2	97.3650	0.0250	150.8265	1.5068	0.0035	0.0000
3	97.3900	0.0500	297.2970	7.0058	0.0068	0.0002
4	97.4150	0.0750	443.7675	16.2082	0.0102	0.0004
5	97.4400	0.1000	590.2380	29.0898	0.0135	0.0007
6	97.4650	0.1250	736.7085	45.6428	0.0169	0.0010
7	97.4900	0.1500	883.1790	65.8638	0.0203	0.0015
8	97.5150	0.1750	1029.6495	89.7507	0.0236	0.0021
9	97.5400	0.2000	1176.1200	117.3026	0.0270	0.0027
10	97.5650	0.2250	1475.5950	150.3783	0.0339	0.0035
11	97.5900	0.2500	1775.0700	190.9540	0.0408	0.0044
12	97.6150	0.2750	2074.5450	239.0256	0.0476	0.0055
13	97.6400	0.3000	2374.0200	294.5906	0.0545	0.0068
14	97.6650	0.3250	2673.4950	357.6475	0.0614	0.0082
15	97.6900	0.3500	2972.9700	428.1952	0.0683	0.0098
16	97.7150	0.3750	3272.4450	506.2330	0.0751	0.0116
17	97.7400	0.4000	3571.9200	591.7602	0.0820	0.0136
18	97.7525	0.4125	3773.3850	637.6626	0.0866	0.0146
19	97.7650	0.4250	3974.8500	686.0836	0.0912	0.0158
20	97.7775	0.4375	4176.3150	737.0232	0.0959	0.0169
21	97.7900	0.4500	4377.7800	790.4814	0.1005	0.0181
22	97.8025	0.4625	4579.2450	846.4581	0.1051	0.0194
23	97.8150	0.4750	4780.7100	904.9533	0.1098	0.0208
24	97.8275	0.4875	4982.1750	965.9670	0.1144	0.0222
25	97.8400	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	97.8525	0.5125	5439.5550	1095.8877	0.1249	0.0252
27	97.8650	0.5250	5695.4700	1165.4755	0.1308	0.0268
28	97.8775	0.5375	5951.3850	1238.2625	0.1366	0.0284
29	97.8900	0.5500	6207.3000	1314.2486	0.1425	0.0302
30	97.9025	0.5625	6463.2150	1393.4340	0.1484	0.0320
31	97.9150	0.5750	6719.1300	1475.8184	0.1542	0.0339
32	97.9275	0.5875	6975.0450	1561.4020	0.1601	0.0358
33	97.9400	0.6000	7230.9600	1650.1848	0.1660	0.0379
34	97.9650	0.6250	7824.4650	1838.3288	0.1796	0.0422
35	97.9900	0.6500	8417.9700	2041.3141	0.1932	0.0469
36	98.0150	0.6750	9011.4750	2259.1400	0.2069	0.0519
37	98.0400	0.7000	9604.9800	2491.8063	0.2205	0.0572
38	98.0650	0.7250	10198.4850	2739.3125	0.2341	0.0629
39	98.0900	0.7500	10791.9900	3001.6585	0.2478	0.0689
40	98.1150	0.7750	11385.4950	3278.8440	0.2614	0.0753
41	98.1400	0.8000	11979.0000	3570.8687	0.2750	0.0820
42	98.1650	0.8250	12567.0600	3877.6651	0.2885	0.0890
43	98.1900	0.8500	13155.1200	4199.1644	0.3020	0.0964

44	98.2150	0.8750	13743.1800	4535.3663	0.3155	0.1041
45	98.2400	0.9000	14331.2400	4886.2709	0.3290	0.1122
46	98.2650	0.9250	14919.3000	5251.8780	0.3425	0.1206
47	98.2900	0.9500	15507.3600	5632.1876	0.3560	0.1293
48	98.3150	0.9750	16095.4200	6027.1995	0.3695	0.1384
49	98.3400	1.0000	16683.4800	6436.9138	0.3830	0.1478
50	101.9300	4.5900	16683.4800	66330.6070	0.3830	1.5227

==
| FREE OUTFALL DATA (DATA GROUP I1) |
| BOUNDARY CONDITION ON DATA GROUP J1 |
==

Outfall at Junction....DI-L25 has boundary condition number... 1
Outfall at Junction....DI-R13 has boundary condition number... 2

===> Warning !! Outfall Junction DI-L25 has two or more connecting conduits.

===> Warning !! Outfall Junction DI-R13 has two or more connecting conduits.

==
| INTERNAL CONNECTIVITY INFORMATION |
==

CONDUIT	JUNCTION	JUNCTION
FREE # 1	DI-L25	BOUNDARY
FREE # 2	DI-R13	BOUNDARY

==
| Boundary Condition Information |
| Data Groups J1-J4 |
==

BC NUMBER.. 1 Control water surface elevation is.. 0.00 feet.
BC NUMBER.. 2 Control water surface elevation is.. 0.00 feet.

==
| XP Note Field Summary |
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| Table E9 - JUNCTION SUMMARY STATISTICS |
| The Maximum area is only the area of the node, it |
| does not include the area of the surrounding conduits|
==

Junction Name	Ground Elevation feet	Uppermost PipeCrown Elevation feet	Maximum Junction Elevation feet	Time of Occurence Hr. Min.	Feet of Surcharge at Max Elevation	Freeboard of node feet	Maximum Junction Area ft^2	Maximum Gutter Depth feet	Maximum Gutter Width feet	Maximum Gutter Velocity ft/s
DI-L25	102.8400	102.3000	97.3100	15 55	0.0000	5.5300	12.5660	0.0000	0.0000	0.0000
CI-G3	101.9200	98.0500	97.7372	16 0	0.0000	4.1828	12.5660	0.0000	0.0000	0.0000
DI-L24	103.0000	102.7100	100.7257	16 45	0.0000	2.2743	12.5660	0.0000	0.0000	0.0000
CI-F2	102.6900	98.6700	100.7704	16 39	2.1004	1.9196	12.5660	0.0000	0.0000	0.0000
MH-L23	104.7300	99.1200	102.0897	16 50	2.9697	2.6403	12.5660	0.0000	0.0000	0.0000
CI-E5	103.8000	99.4000	102.1108	16 48	2.7108	1.6892	12.5660	0.0000	0.0000	0.0000
MH-L22	104.8100	99.9200	102.5255	16 51	2.6055	2.2845	12.5660	0.0000	0.0000	0.0000
CI-D9	103.5300	99.5000	103.2096	16 55	3.7096	0.3204	12.5660	0.0000	0.0000	0.0000
L-21	104.0000	99.4100	102.8102	16 51	3.4002	1.1898	12.5660	0.0000	0.0000	0.0000
CI-D8	102.8900	99.8100	103.5671	16 58	3.7571	0.0000	9840.4056	0.0000	0.0000	0.0000
SD-4	104.0000	100.8840	102.8453	16 52	1.9613	1.1547	12.5660	0.0000	0.0000	0.0000
MH-D7	103.5800	100.1000	104.5647	16 56	4.4647	0.0000	13385.340	0.0000	0.0000	0.0000
CI-C7	102.6000	101.0000	102.8929	16 50	1.8929	0.0000	2288.8068	0.0000	0.0000	0.0000
SD-3	104.0000	103.3440	103.0144	16 52	0.0000	0.9856	12.5660	0.0000	0.0000	0.0000
CI-D6	103.2100	100.7600	105.3220	16 45	4.5620	0.0000	16683.480	0.0000	0.0000	0.0000
CI-C5	103.0000	101.2900	103.0248	16 51	1.7348	0.0000	1638.9766	0.0000	0.0000	0.0000
SD-2	104.4640	103.7340	103.0607	16 52	0.0000	1.4033	12.5660	0.0000	0.0000	0.0000
CI-B9	104.1000	101.8700	103.0675	16 51	1.1975	1.0325	12.5660	0.0000	0.0000	0.0000
SD-1	105.1240	104.9440	103.3465	16 51	0.0000	1.7775	12.5660	0.0000	0.0000	0.0000
CI-A12	105.1100	102.5300	103.3804	16 48	0.8504	1.7296	12.5660	0.0000	0.0000	0.0000
CI-B12	104.8800	102.5200	105.5178	16 52	2.9978	0.0000	8128.8429	0.0000	0.0000	0.0000
DI-A10	104.0000	102.8400	103.4105	16 45	0.5705	0.5895	12.5660	0.0000	0.0000	0.0000
Off-B12	104.8800	102.5300	106.0979	16 48	3.5679	0.0000	15015.829	0.0000	0.0000	0.0000
DI-B10	104.0000	102.7000	105.5324	16 53	2.8324	0.0000	23146.338	0.0000	0.0000	0.0000
DI-R13	102.1500	101.6300	97.5489	16 16	0.0000	4.6011	12.5660	0.0000	0.0000	0.0000
CI-A7	101.2300	98.3100	97.5627	16 15	0.0000	3.6673	12.5660	0.0000	0.0000	0.0000
DI-R12	102.6000	102.6000	98.6167	16 15	0.0000	3.9833	12.5660	0.0000	0.0000	0.0000
CI-R11	101.9300	99.3400	98.7139	16 15	0.0000	3.2161	12.5660	0.0000	0.0000	0.0000

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| Table E10 - CONDUIT SUMMARY STATISTICS |
| Note: The peak flow may be less than the design flow |
| and the conduit may still surcharge because of the |
| downstream boundary conditions. |
| |
| * denotes an open conduit that has been overtopped |
| this is a potential source of severe errors |
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Design	Conduit Design	Maximum Vertical	Maximum Computed	Time of	Maximum Computed	Time of	Ratio of Max. to	Maximum Water Elev at Pipe Ends		Ratio d/D

Conduit Name	Flow (cfs)	Velocity (ft/s)	Depth (in)	Flow (cfs)	Occurence Hr.	Occurence Min.	Velocity (ft/s)	Occurence Hr.	Occurence Min.	Design Flow	Upstream (ft)	Dwnstrm (ft)	US	DS	
L_L-G3	4.6139	2.6109	18.0000	6.5298	16	0	4.7341	16	0	1.4153	97.7372	97.4479	0.791	0.659	
L_L-F2	4.6170	2.6127	18.0000	7.6262	16	0	4.2911	16	0	1.6518	100.7704	100.7257	2.400	2.430	
L_L-L23	125.9800	5.2492	48.0000	201.7732	17	0	8.3804	17	0	1.6016	102.0897	100.7257	1.742	1.536	
L_L-E5	5.7617	3.2604	18.0000	4.5582	16	0	3.2670	15	39	0.7911	102.1108	102.0897	2.807	2.980	
L_L-L22	269.3143	11.2214	48.0000	200.5538	17	0	8.3279	17	0	0.7447	102.5255	102.0897	1.651	1.742	
L_L-D9	20.3728	4.1503	30.0000	42.1589	15	51	8.4571	15	52	2.0694	103.2096	102.5255	2.484	2.302	
L_L-L21	114.8988	4.7875	48.0000	169.2164	17	46	7.0345	17	46	1.4727	102.8102	102.5255	1.850	1.814	
L_L-D8	31.8751	6.4936	30.0000	38.9111	15	51	7.9030	15	51	1.2207	103.5671	103.2096	2.503	2.484	
L_L-SD4	769.5357	7.8081	48.0000	169.1673	17	45	2.5590	18	26	0.2198	102.8453	102.8102	1.666	1.850	*
L_L-D7	18.5423	3.7774	30.0000	38.9737	15	51	7.9026	15	51	2.1019	104.5647	103.5671	2.786	2.503	
L_L-C7	37.1701	4.6463	24.0000	20.9933	16	15	4.5824	15	49	0.5648	102.8929	102.8453	1.946	2.093	
L_L-SD3	575.7903	4.4002	56.4480	141.8625	17	0	2.4890	15	38	0.2464	103.0144	102.8453	0.930	1.417	*
L_L-D6	33.3801	6.8001	30.0000	39.3469	16	31	7.9288	16	31	1.1788	105.3220	104.5647	2.825	2.786	
L_L-C5	29.0764	3.6346	24.0000	14.0595	16	15	1.7527	16	15	0.4835	103.0248	103.0144	1.867	1.932	
L_L-SD2	476.7628	3.6434	56.4480	134.0050	16	36	2.6624	15	58	0.2811	103.0607	103.0144	0.857	0.930	
L_L-B9	50.6026	6.3253	24.0000	11.6439	16	15	1.4527	16	15	0.2301	103.0675	103.0607	1.599	1.835	
L_L-SD1	474.9986	3.6299	56.4480	126.5537	16	17	2.4185	15	59	0.2664	103.3465	103.0607	0.660	0.857	
L_L-A12	25.5984	3.1998	24.0000	28.1011	16	15	3.5071	16	15	1.0978	103.3804	103.3465	1.425	1.468	
L_L-B12	22.2452	2.7807	24.0000	109.8438	16	53	13.6598	16	53	4.9379	105.5178	103.3465	2.504	1.463	
L_L-A10	21.9874	2.7484	24.0000	13.2353	16	0	1.6528	16	0	0.6019	103.4105	103.3804	1.285	1.425	
L_L-OFFB12	19.8577	2.4822	24.0000	110.6690	16	34	13.7251	16	34	5.5731	106.0979	105.5178	2.784	2.504	
L_L-B10	16.9328	2.1166	24.0000	19.6624	17	28	2.4463	17	28	1.1612	105.5324	105.5178	2.416	2.499	
L_L-A7	18.4732	3.0789	24.0000	6.4002	16	0	2.3864	15	36	0.3465	97.5627	97.5489	0.626	0.664	
L_L-R11	16.7836	2.7973	24.0000	14.7639	16	15	3.6169	16	15	0.8797	98.7139	98.6167	0.687	0.673	
228.1	127.5406	5.3142	48.0000	209.3566	16	46	8.7103	16	46	1.6415	100.7257	97.3100	1.536	1.000	
ML Ditch	0.2848	0.3797	6.0000	0.0000	0	0	0.0000	0	0	0.0000	97.3100	97.3100	.0000	.0000	
255.1	35.1772	3.5177	24.0000	26.9918	16	16	4.0390	16	16	0.7673	98.6167	97.5489	0.673	0.664	
MLDitch2	0.4507	0.6009	6.0000	0.0000	0	0	0.0000	0	0	0.0000	97.5489	97.5489	.0000	.0000	
FREE # 1	Undefnd	Undefnd	Undefn	221.9163	16	27									
FREE # 2	Undefnd	Undefnd	Undefn	42.7161	16	15									

Table E11. Area assumptions used in the analysis Subcritical and Critical flow assumptions from Subroutine Head. See Figure 17-1 in the manual for further information.

Conduit Name	Duration of Dry Flow(min)	Duration of Sub-Critical Flow(min)	Durat. of Upstream Critical Flow(min)	Durat. of Downstream Critical Flow(min)	Maximum Hydraulic Radius-m	Maximum X-Sect Area(ft^2)	Maximum Vel*D (ft^2/s)
L_L-G3	915.0167	103.4417	0.0000	1861.5417	0.4461	1.3799	5.1460
L_L-F2	915.0167	149.5833	0.0000	1815.4000	0.4561	1.8511	12.8956
L_L-L23	892.1000	1987.9000	0.0000	0.0000	1.6356	24.1104	54.7903
L_L-E5	915.0167	151.3333	0.0000	1813.6500	0.4515	1.8336	8.6906
L_L-L22	891.9833	1988.0167	0.0000	0.0000	1.5389	24.1332	56.3673
L_L-D9	901.9500	146.0833	0.0000	1831.9667	0.7588	5.1302	43.4269
L_L-L21	847.6167	2032.3833	0.0000	0.0000	1.6343	24.1875	50.0304
L_L-D8	901.1500	1978.8500	0.0000	0.0000	0.7592	5.1448	44.5007
L_L-SD4	843.6167	2036.3833	0.0000	0.0000	2.2634	98.5556	11.7379
L_L-D7	900.2167	1979.7833	0.0000	0.0000	0.7583	5.1244	46.4127
L_L-C7	900.0167	134.0667	0.0000	1845.9167	0.8954	8.0470	9.2915
L_L-SD3	840.6167	2039.3833	0.0000	0.0000	2.5236	122.2126	6.4109
L_L-D6	900.0167	1979.9833	0.0000	0.0000	0.7516	5.1404	54.2177
L_L-C5	897.6500	520.1667	0.0000	1462.1833	0.9270	8.0449	5.4918
L_L-SD2	840.0167	2039.9833	0.0000	0.0000	2.3555	106.7595	6.9936
L_L-B9	2066.4000	813.6000	0.0000	0.0000	0.8639	8.0483	4.1162
L_L-SD1	849.8167	2030.1833	0.0000	0.0000	1.9848	79.8993	6.5099
L_L-A12	878.3333	2001.6667	0.0000	0.0000	0.9306	8.0450	9.2367
L_L-B12	843.2167	2002.7167	0.0000	34.0667	0.9207	8.0427	54.1795
L_L-A10	2428.8000	451.2000	0.0000	0.0000	0.9007	8.0462	4.0617
L_L-OFFB12	857.9333	2020.6167	1.4500	0.0000	0.9425	8.0663	71.6987
L_L-B10	840.0167	2021.9667	0.0000	18.0167	0.9195	8.0581	9.6112
L_L-A7	2430.1000	449.9000	0.0000	0.0000	0.6925	3.8606	2.1395
L_L-R11	1894.4667	985.5333	0.0000	0.0000	0.7136	4.0836	4.9160
228.1	893.5500	1986.4500	0.0000	0.0000	1.6325	24.0354	44.1852
ML Ditch	2880.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
255.1	915.3500	1964.6500	0.0000	0.0000	0.8716	6.6911	5.3951
MLDitch2	2880.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Table E12. Mean Conduit Flow Information

Conduit Name	Mean Flow (cfs)	Total Flow (ft^3)	Mean Percent Change	Low Flow Weightng	Mean Froude Number	Mean Hydraulic Radius	Mean Cross Area	Mean Conduit Roughness
L_L-G3	0.1560	26958.263	0.0066	0.1865	0.1899	0.0357	0.0801	0.0130
L_L-F2	0.1822	31482.796	0.0144	0.1865	0.1686	0.0349	0.1314	0.0130
L_L-L23	12.1336	2096689.3	0.2320	0.6965	0.3841	0.2195	2.6807	0.0130
L_L-E5	0.1091	18855.735	0.0143	0.2003	0.2383	0.0332	0.1278	0.0130
L_L-L22	12.0244	2077812.0	0.2363	0.6965	0.6089	0.1932	2.4482	0.0130
L_L-D9	2.0198	349021.18	0.0817	0.6931	0.5230	0.0930	0.4472	0.0130
L_L-L21	10.0052	1728896.7	0.2417	0.7116	0.1059	0.4529	4.4823	0.0130
L_L-D8	1.9269	332965.87	0.0741	0.6934	0.4021	0.0930	0.4437	0.0130

L_L-SD4	10.0058	1729007.2	0.3018	0.7130	0.1464	0.3192	8.4571	0.0350
L_L-D7	1.9267	332933.06	0.0695	0.6937	0.3917	0.0945	0.4499	0.0130
L_L-C7	0.7913	136741.34	0.0252	0.6938	0.7380	0.0646	0.5985	0.0130
L_L-SD3	8.6260	1490567.3	0.1882	0.7140	0.1722	0.3083	8.7994	0.0350
L_L-D6	1.9269	332974.14	0.0675	0.6938	0.4210	0.0922	0.4410	0.0130
L_L-C5	0.4927	85141.301	0.0164	0.6946	0.2730	0.0976	0.8241	0.0130
L_L-SD2	8.1461	1407650.8	0.1521	0.7142	0.1267	0.3085	7.6110	0.0350
L_L-B9	0.3418	59069.652	0.0148	0.2970	0.0093	0.0996	0.8253	0.0130
L_L-SD1	7.4621	1289457.0	0.1422	0.7109	0.1268	0.2828	6.2106	0.0350
L_L-A12	0.8438	145808.11	0.0378	0.7012	0.0186	0.1821	1.2503	0.0130
L_L-B12	6.6149	1143049.0	0.1644	0.7131	0.3637	0.2005	1.3675	0.0130
L_L-A10	0.4286	74064.676	0.0211	0.1737	0.0114	0.1196	0.9251	0.0130
L_L-OFFB12	6.2833	1085749.7	0.1441	0.7081	0.3279	0.1929	1.3513	0.0130
L_L-B10	0.2826	48832.243	0.0617	0.7142	0.0743	0.1539	1.1512	0.0130
L_L-A7	0.2014	34806.113	0.0065	0.1733	0.0611	0.0449	0.2047	0.0130
L_L-R11	0.4283	74017.835	0.0142	0.3555	0.0817	0.0480	0.2216	0.0130
228.1	12.6674	2188934.5	0.2348	0.6960	0.4580	0.2146	2.6371	0.0130
ML Ditch	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0350
255.1	0.7802	134816.00	0.0263	0.6886	0.6035	0.0550	0.3650	0.0130
MLDitch2	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0350
FREE # 1	13.2093	2282575.0						
FREE # 2	1.2640	218410.57						

Table E13. Channel losses(H), headwater depth (HW), tailwater depth (TW), critical and normal depth (Yc and Yn). Use this section for culvert comparisons

Conduit Name	Maximum Flow	Head Loss	Friction Loss	Critical Depth	Normal Depth	HW Elevat	TW Elevat	
L_L-G3	6.5118	0.0000	0.2338	0.9865	1.5000	97.7365	97.4465	Max Flow
L_L-F2	7.6139	0.0000	0.2420	1.0685	1.5000	100.0794	99.8346	Max Flow
L_L-L23	201.7730	0.0000	1.3764	3.2743	4.0000	102.0601	100.6822	Max Flow
L_L-E5	4.5499	0.0000	0.1724	0.8182	1.0055	100.8644	100.6893	Max Flow
L_L-L22	200.5491	0.0000	0.4406	3.2611	2.6333	102.5001	102.0601	Max Flow
L_L-D9	42.0034	0.0000	0.9409	2.1679	2.5000	100.6985	99.7551	Max Flow
L_L-L21	169.0721	0.0000	0.3017	2.9103	4.0000	101.3413	101.0226	Max Flow
L_L-D8	38.8264	0.0000	0.4570	2.1025	2.5000	101.1490	100.6926	Max Flow
L_L-SD4	166.5557	0.0000	0.0361	1.9925	2.1708	101.3651	101.3412	Max Flow
L_L-D7	38.8869	0.0000	1.2634	2.1037	2.5000	102.4013	101.1491	Max Flow
L_L-C7	20.9874	0.0000	0.1077	0.9489	1.0747	102.2156	102.1062	Max Flow
L_L-SD3	141.8542	0.0000	0.1818	1.8670	2.6402	102.9919	102.8207	Max Flow
L_L-D6	39.3460	0.0000	0.8973	2.1132	2.5000	105.1645	104.2662	Max Flow
L_L-C5	14.0584	0.0000	0.0326	0.7264	0.9648	102.3177	102.2844	Max Flow
L_L-SD2	133.9968	0.0000	0.0575	1.8222	2.7799	102.9937	102.9434	Max Flow
L_L-B9	11.6392	0.0000	0.0253	0.6406	0.5833	102.4209	102.3944	Max Flow
L_L-SD1	126.5402	0.0000	0.6272	1.7798	2.7209	103.0588	102.4732	Max Flow
L_L-A12	28.1009	0.0000	0.1442	1.1526	1.7346	103.1758	103.0314	Max Flow
L_L-B12	109.8437	0.0000	2.1719	5.0068	2.0000	105.5168	103.3444	Max Flow
L_L-A10	13.2139	0.0000	0.1117	0.6967	1.1230	103.1466	103.0310	Max Flow
L_L-OFFB12	110.6658	0.0000	0.6114	5.4432	2.0000	105.9632	105.3516	Max Flow
L_L-B10	19.3838	0.0000	0.2337	0.8998	1.7894	104.5663	104.3373	Max Flow
L_L-A7	6.3889	0.0000	0.0297	0.5195	0.7583	97.4235	97.3984	Max Flow
L_L-R11	14.7527	0.0000	0.0929	0.9086	1.4908	98.7136	98.6137	Max Flow
228.1	209.3558	0.0000	3.4119	3.3563	4.0000	100.7253	97.3100	Max Flow
ML Ditch	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	Max Flow
255.1	26.9834	0.0000	1.0583	0.9670	1.3286	98.6161	97.5486	Max Flow
MLDitch2	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	Max Flow

Table E13a. CULVERT ANALYSIS CLASSIFICATION, and the time the culvert was in a particular classification during the simulation. The time is in minutes. The Dynamic Wave Equation is used for all conduit analysis but the culvert flow classification condition is based on the HW and TW depths.

Conduit Name	Mild Slope Critical D Outlet Control	Mild Slope TW Control	Steep Slope TW Insignf Entrance Control	Slug Flow Outlet/ Entrance Control	Mild Slope TW > D Outlet Control	Mild Slope TW <= D Outlet Control	Outlet Control	Inlet Control	Inlet Configuration

L_L-G3	1.0000	487.0000	2392.0000	0.0000	0.0000	0.0000	0.0000	0.0000	None
L_L-F2	0.0000	357.0000	2392.0000	0.0000	131.0000	0.0000	0.0000	0.0000	None
L_L-L23	10.0000	1847.0000	892.0000	0.0000	131.0000	0.0000	0.0000	0.0000	None
L_L-E5	43.0000	353.0000	2351.0000	0.0000	133.0000	0.0000	0.0000	0.0000	None
L_L-L22	0.0000	0.0000	2586.0000	33.0000	0.0000	120.0000	141.0000	0.0000	None
L_L-D9	314.0000	1534.0000	901.0000	0.0000	131.0000	0.0000	0.0000	0.0000	None
L_L-L21	18.0000	1884.0000	847.0000	0.0000	131.0000	0.0000	0.0000	0.0000	None
L_L-D8	2.0000	1538.0000	999.0000	15.0000	121.0000	12.0000	193.0000	0.0000	None
L_L-SD4	29.0000	1877.0000	843.0000	0.0000	131.0000	0.0000	0.0000	0.0000	None
L_L-D7	227.0000	1619.0000	900.0000	0.0000	134.0000	0.0000	0.0000	0.0000	None
L_L-C7	261.0000	1603.0000	900.0000	0.0000	116.0000	0.0000	0.0000	0.0000	None
L_L-SD3	3.0000	1925.0000	840.0000	0.0000	112.0000	0.0000	0.0000	0.0000	None
L_L-D6	0.0000	0.0000	2627.0000	13.0000	94.0000	34.0000	112.0000	0.0000	None
L_L-C5	2.0000	1865.0000	897.0000	0.0000	116.0000	0.0000	0.0000	0.0000	None
L_L-SD2	0.0000	2040.0000	840.0000	0.0000	0.0000	0.0000	0.0000	0.0000	None
L_L-B9	0.0000	622.0000	2066.0000	92.0000	0.0000	100.0000	0.0000	0.0000	None
L_L-SD1	0.0000	2031.0000	849.0000	0.0000	0.0000	0.0000	0.0000	0.0000	None
L_L-A12	0.0000	1166.0000	878.0000	710.0000	126.0000	0.0000	0.0000	0.0000	None
L_L-B12	14.0000	1897.0000	843.0000	0.0000	9.0000	115.0000	2.0000	0.0000	None
L_L-A10	0.0000	331.0000	2429.0000	0.0000	120.0000	0.0000	0.0000	0.0000	None
L_L-OFFB12	0.0000	1861.0000	857.0000	0.0000	49.0000	113.0000	0.0000	0.0000	None
L_L-B10	14.0000	1865.0000	840.0000	0.0000	161.0000	0.0000	0.0000	0.0000	None
L_L-A7	0.0000	449.0000	2431.0000	0.0000	0.0000	0.0000	0.0000	0.0000	None
L_L-R11	7.0000	978.0000	1895.0000	0.0000	0.0000	0.0000	0.0000	0.0000	None
228.1	0.0000	1938.0000	893.0000	0.0000	49.0000	0.0000	0.0000	0.0000	None
ML Ditch	0.0000	0.0000	2880.0000	0.0000	0.0000	0.0000	0.0000	0.0000	None
255.1	0.0000	1965.0000	915.0000	0.0000	0.0000	0.0000	0.0000	0.0000	None
MLDitch2	0.0000	0.0000	2880.0000	0.0000	0.0000	0.0000	0.0000	0.0000	None

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| Kinematic Wave Approximations |
| Time in Minutes for Each Condition |
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Conduit Name	Duration of Normal Flow	Slope Criteria	Super-Critical	Roll Waves
L_L-G3	0.2250	82.7833	1625.1500	0.0000
L_L-F2	0.0000	10.0000	1625.1500	0.0000
L_L-L23	1755.3333	1809.2500	6.5333	0.0000
L_L-E5	2.3500	18.4000	1641.2333	0.0000
L_L-L22	1732.3333	1856.2167	220.0833	0.0000
L_L-D9	0.0000	8.9500	1.5000	0.0000
L_L-L21	10.7833	1874.1000	0.0000	0.0000
L_L-D8	1759.0167	1840.5500	3.5000	0.0000
L_L-SD4	1814.9167	1862.7667	0.0000	0.0000
L_L-D7	0.0000	7.6333	1.9667	0.0000
L_L-C7	1.1000	19.1167	1557.5833	0.0000
L_L-SD3	36.1333	71.5167	0.0000	0.0000
L_L-D6	1815.1833	1844.0833	2.2833	0.0000
L_L-C5	64.5833	400.5333	1462.2500	0.0000
L_L-SD2	1616.7167	1899.7500	0.0000	0.0000
L_L-B9	1604.4833	1850.2833	0.0000	0.0000
L_L-SD1	1881.0167	1988.3500	0.0000	0.0000
L_L-A12	0.0000	1848.0333	0.0000	0.0000
L_L-B12	0.7833	1665.4333	6.9167	0.0000
L_L-A10	0.0000	1864.9333	0.0000	0.0000
L_L-OFFB12	0.4000	1654.4667	0.0000	0.0000
L_L-B10	1476.1000	1842.6333	0.0000	0.0000
L_L-A7	101.7333	1943.1167	0.0000	0.0000
L_L-R11	1732.1667	1745.8667	4.4500	0.0000
228.1	0.2333	0.2333	2.0167	0.0000
ML Ditch	0.0000	0.0000	0.0000	0.0000
255.1	18.6333	20.2333	0.0000	0.0000
MLDitch2	0.0000	0.0000	0.0000	0.0000

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| Table E14 - Natural Channel Overbank Flow Information |
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Conduit Name	<---- Maximum Velocity -----> Left Velocity	Center Velocity	Right Velocity	<------ Maximum Flow -------> Left Flow	Center Flow	Right Flow	<------ Maximum Area ------> Left Area	Center Area	Right Area	<--- Max. Storage Volume ---> Left Area	Center Area	Right Area	Maximum Depth
L_L-SD4	0.0000	1.7165	0.0000	0.0000	169.1673	0.0000	0.0000	98.5556	0.0000	0.0000	6667.7778	0.0000	4.0000
L_L-SD3	0.0000	1.1624	0.4593	0.0000	141.7372	0.1253	0.0000	121.9322	0.2728	0.0000	100715.99	225.3232	4.5258
L_L-SD2	0.0000	1.2556	0.0000	0.0000	134.0050	0.0000	0.0000	106.7288	0.0000	0.0000	20385.201	0.0000	4.1884
L_L-SD1	0.0000	1.5843	0.0000	0.0000	126.5537	0.0000	0.0000	79.8803	0.0000	0.0000	47688.540	0.0000	3.5434

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| Table E14a - Natural Channel Encroachment Information |
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Conduit Name	<------- Existing Conveyance Condition -------> Left Bank	Centre Channel	Right Bank	Total	Left Station	Right Station	<----- Encroachment Conveyance Condition -----> Left Bank	Centre Channel	Right Bank	Total	Left Station	Right Station	<- % Volume --> Reduction Left	Reduction Right	<-- Encroachment Data --> Depth Incr.	Method
L_L-SD4	0.0000	7213.3	0.0000	7213.3	37.680	80.336	0.0000	7213.3	0.0000	7213.3	37.680	80.336	0.0000	0.0000	0.0000	None
L_L-SD3	0.0000	9780.3	8.6464	9788.9	34.948	82.768	0.0000	9780.3	8.6464	9788.9	34.948	82.768	0.0000	0.0000	0.0000	None
L_L-SD2	0.0000	8053.7	0.0000	8053.7	36.714	80.817	0.0000	8053.7	0.0000	8053.7	36.714	80.817	0.0000	0.0000	0.0000	None

L_L-SD1 0.0000 5386.4 0.0000 5386.4 40.020 79.172 0.0000 5386.4 0.0000 5386.4 40.020 79.172 0.0000 0.0000 0.0000 None

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| Table E14b - Floodplain Mapping |
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Conduit Name	Upstream WS Elev.	Downstream WS Elev.	Channel Length	Center Station	<----- Left Offsets Natural	Encroach	------> Bank	<----- Right Offsets Natural	Encroach	------> Bank	<- Channel Widths-> Total	Encroach.
L_L-SD4	102.8453	102.8102	67.6550	62.0590	24.3792	24.3792	27.2970	18.2774	18.2774	18.8640	42.6566	42.6566
L_L-SD3	103.0144	102.8453	826.0000	62.0590	27.1106	27.1106	27.2970	20.7086	20.7086	18.8640	47.8192	47.8192
L_L-SD2	103.0607	103.0144	191.0000	62.0590	25.3448	25.3448	27.2970	18.7579	18.7579	18.8640	44.1028	44.1028
L_L-SD1	103.3465	103.0607	597.0000	62.0590	22.0393	22.0393	27.2970	17.1130	17.1130	18.8640	39.1523	39.1523

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| Table E15 - SPREADSHEET INFO LIST |
| Conduit Flow and Junction Depth Information for use in |
| spreadsheets. The maximum values in this table are the |
| true maximum values because they sample every time step.|
| The values in the review results may only be the |
| maximum of a subset of all the time steps in the run. |
| Note: These flows are only the flows in a single barrel.|
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Conduit Name	Maximum Flow (cfs)	Total Flow (ft^3)	Maximum Velocity (ft/s)	Maximum Volume (ft^3)	##	Junction Name	Invert Elevation (ft)	Maximum Elevation (ft)
L_L-G3	6.5298	26958.2632	4.7341	63.6508	##	DI-L25	93.3100	97.3100
L_L-F2	7.6262	31482.7962	4.2911	86.3043	##	CI-G3	96.5500	97.7372
L_L-L23	201.7732	2096689.250	8.3804	7879.6836	##	DI-L24	94.5800	100.7257
L_L-E5	4.5582	18855.7349	3.2670	171.9495	##	CI-F2	97.1700	100.7704
L_L-L22	200.5538	2077811.952	8.3279	2549.9990	##	MH-L23	95.1200	102.0897
L_L-D9	42.1589	349021.1843	8.4571	479.7565	##	CI-E5	97.9000	102.1108
L_L-L21	169.2164	1728896.722	7.0345	2460.5587	##	MH-L22	95.2700	102.5255
L_L-D8	38.9111	332965.8681	7.9030	264.1517	##	CI-D9	97.0000	103.2096
L_L-SD4	169.1673	1729007.199	2.5590	6667.7778	##	L-21	95.4100	102.8102
L_L-D7	38.9737	332933.0604	7.9026	730.2455	##	CI-D8	97.3100	103.5671
L_L-C7	20.9933	136741.3420	4.5824	964.0302	##	SD-4	96.1800	102.8453
L_L-SD3	141.8625	1490567.289	2.4890	100941.3090	##	MH-D7	97.6000	104.5647
L_L-D6	39.3469	332974.1360	7.9288	512.3756	##	CI-C7	99.0000	102.8929
L_L-C5	14.0595	85141.3008	1.7527	648.1832	##	SD-3	98.6400	103.0144
L_L-SD2	134.0050	1407650.767	2.6624	20385.2014	##	CI-D6	98.2600	105.3220
L_L-B9	11.6439	59069.6518	1.4527	733.3945	##	CI-C5	99.2900	103.0248
L_L-SD1	126.5537	1289456.973	2.4185	47688.5400	##	SD-2	99.0300	103.0607
L_L-A12	28.1011	145808.1143	3.5071	715.1584	##	CI-B9	99.8700	103.0675
L_L-B12	109.8438	1143049.028	13.6598	713.3107	##	SD-1	100.2400	103.3465
L_L-A10	13.2353	74064.6759	1.6528	2503.6315	##	CI-A12	100.5300	103.3804
L_L-OFFB12	110.6690	1085749.724	13.7251	199.5775	##	CI-B12	100.5100	105.5178
L_L-B10	19.6624	48832.2430	2.4463	2464.2753	##	DI-A10	100.8400	103.4105
L_L-A7	6.4002	34806.1133	2.3864	243.0431	##	Off-B12	100.5200	106.0979
L_L-R11	14.7639	74017.8349	3.6169	241.3241	##	DI-B10	100.7000	105.5324
228.1	209.3566	2188934.511	8.7103	18007.2876	##	DI-R13	96.2200	97.5489
ML Ditch	0.0000	0.0000	0.0000	0.0000	##	CI-A7	96.3100	97.5627
255.1	26.9918	134816.0034	4.0390	4733.5406	##	DI-R12	97.2700	98.6167
MLDitch2	0.0000	0.0000	0.0000	0.0000	##	CI-R11	97.3400	98.7139
FREE # 1	221.9163	2282575.044	0.0000	0.0000	##			
FREE # 2	42.7161	218410.5716	0.0000	0.0000	##			

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| Table E15a - SPREADSHEET REACH LIST |

| Peak flow and Total Flow listed by Reach or those conduits or diversions having the same upstream and downstream nodes. |

Upstream Node	Downstream Node	Maximum Flow (cfs)	Total Flow (ft^3)
CI-G3	DI-L25	6.5298	26958.2632
CI-F2	DI-L24	7.6262	31482.7962
MH-L23	DI-L24	201.7732	2096689.25
CI-E5	MH-L23	4.5582	18855.7349
MH-L22	MH-L23	200.5538	2077811.95
CI-D9	MH-L22	42.1589	349021.184
L-21	MH-L22	169.2164	1728896.72
CI-D8	CI-D9	38.9111	332965.868
SD-4	L-21	169.1673	1729007.20
MH-D7	CI-D8	38.9737	332933.060
CI-C7	SD-4	20.9933	136741.342
SD-3	SD-4	141.8625	1490567.29
CI-D6	MH-D7	39.3469	332974.136
CI-C5	SD-3	14.0595	85141.3008
SD-2	SD-3	134.0050	1407650.77
CI-B9	SD-2	11.6439	59069.6518
SD-1	SD-2	126.5537	1289456.97
CI-A12	SD-1	28.1011	145808.114
CI-B12	SD-1	109.8438	1143049.03
DI-A10	CI-A12	13.2353	74064.6759
Off-B12	CI-B12	110.6690	1085749.72
DI-B10	CI-B12	19.6624	48832.2430
CI-A7	DI-R13	6.4002	34806.1133
CI-R11	DI-R12	14.7639	74017.8349
DI-L24	DI-L25	209.3566	2188934.51
DI-R12	DI-R13	26.9918	134816.003

Table E16. New Conduit Information Section
Conduit Invert (IE) Elevation and Conduit Maximum Water Surface (WS) Elevations

Conduit Name	Upstream Node	Downstream Node	IE Up	IE Dn	WS Up	WS Dn	Conduit Type
L_L-G3	CI-G3	DI-L25	96.5500	96.4600	97.7372	97.4479	Circular
L_L-F2	CI-F2	DI-L24	97.1700	97.0800	100.7704	100.7257	Circular
L_L-L23	MH-L23	DI-L24	95.1200	94.5800	102.0897	100.7257	Rectangle
L_L-E5	CI-E5	MH-L23	97.9000	97.6200	102.1108	102.0897	Circular
L_L-L22	MH-L22	MH-L23	95.9200	95.1200	102.5255	102.0897	Rectangle
L_L-D9	CI-D9	MH-L22	97.0000	96.7700	103.2096	102.5255	Circular
L_L-L21	L-21	MH-L22	95.4100	95.2700	102.8102	102.5255	Rectangle
L_L-D8	CI-D8	CI-D9	97.3100	97.0000	103.5671	103.2096	Circular
L_L-SD4	SD-4	L-21	96.1800	95.4100	102.8453	102.8102	Natural
L_L-D7	MH-D7	CI-D8	97.6000	97.3100	104.5647	103.5671	Circular
L_L-C7	CI-C7	SD-4	99.0000	98.6600	102.8929	102.8453	Rectangle
L_L-SD3	SD-3	SD-4	98.6400	96.1800	103.0144	102.8453	Natural
L_L-D6	CI-D6	MH-D7	98.2600	97.6000	105.3220	104.5647	Circular
L_L-C5	CI-C5	SD-3	99.2900	99.1500	103.0248	103.0144	Rectangle

L_L-SD2	SD-2	SD-3	99.0300	98.6400	103.0607	103.0144	Natural
L_L-B9	CI-B9	SD-2	99.8700	99.3900	103.0675	103.0607	Rectangle
L_L-SD1	SD-1	SD-2	100.2400	99.0300	103.3465	103.0607	Natural
L_L-A12	CI-A12	SD-1	100.5300	100.4100	103.3804	103.3465	Rectangle
L_L-B12	CI-B12	SD-1	100.5100	100.4200	105.5178	103.3465	Rectangle
L_L-A10	DI-A10	CI-A12	100.8400	100.5300	103.4105	103.3804	Rectangle
L_L-OFFB12	Off-B12	CI-B12	100.5300	100.5100	106.0979	105.5178	Rectangle
L_L-B10	DI-B10	CI-B12	100.7000	100.5200	105.5324	105.5178	Rectangle
L_L-A7	CI-A7	DI-R13	96.3100	96.2200	97.5627	97.5489	Rectangle
L_L-R11	CI-R11	DI-R12	97.3400	97.2700	98.7139	98.6167	Rectangle
228.1	DI-L24	DI-L25	94.5800	93.3100	100.7257	97.3100	Rectangle
ML Ditch	DI-L24	DI-L25	102.2100	101.8000	97.3100	97.3100	Trapezoid
255.1	DI-R12	DI-R13	97.2700	96.2200	98.6167	97.5489	Rectangle
MLDitch2	DI-R12	DI-R13	102.1000	101.1300	97.5489	97.5489	Trapezoid

Table E18 - Junction Continuity Error. Division by Volume added 11/96

Continuity Error = Net Flow + Beginning Volume - Ending Volume / (Total Flow + (Beginning Volume + Ending Volume)/2)

Net Flow = Node Inflow - Node Outflow
Total Flow = absolute (Inflow + Outflow)
Intermediate column is a judgement on the node continuity error.

Excellent < 1 percent Great 1 to 2 percent Good 2 to 5 percent
Fair 5 to 10 percent Poor 10 to 25 percent Bad 25 to 50 percent
Terrible > 50 percent

Junction Name	<------Continuity Error -------> Volume	% of Node	% of Inflow	Remaining Volume	Beginning Volume	Net Flow Thru Node	Total Flow Thru Node	Failed to Converge
DI-L25	-241.6253	-0.0053	0.0096	240.0780	0.0000	-1.5473	4565124.183	0
CI-G3	23.8056	0.0441	0.0009	0.0009	0.0000	23.8065	53941.4108	0
DI-L24	-466.7409	-0.0107	0.0186	358.7828	0.0000	-107.9581	4377742.025	0
CI-F2	26.7551	0.0425	0.0011	0.0009	0.0000	26.7559	62993.1378	0
MH-L23	-184.1829	-0.0044	0.0073	148.0645	0.0000	-36.1184	4193356.937	0
CI-E5	35.6149	0.0944	0.0014	0.0008	0.0000	35.6157	37747.5387	0
MH-L22	-145.5303	-0.0035	0.0058	237.0561	0.0000	91.5257	4155729.859	0
CI-D9	149.0038	0.0213	0.0059	3.0295	0.0000	152.0333	698196.7438	0
L-21	-154.0826	-0.0045	0.0061	252.6785	0.0000	98.5959	3457903.921	0
CI-D8	-37.8934	-0.0057	0.0015	3.6494	0.0000	-34.2440	665898.9284	0
SD-4	1755.2634	0.0507	0.0700	408.9913	0.0000	2164.2548	3460191.347	0
MH-D7	39.8672	0.0060	0.0016	4.7033	0.0000	44.5705	665907.1964	0
CI-C7	143.3147	0.0524	0.0057	2.1408	0.0000	145.4555	273629.4564	0
SD-3	1775.0296	0.0595	0.0708	467.0239	0.0000	2242.0535	2983359.357	0
CI-D6	207.9437	0.0312	0.0083	2.5029	0.0000	210.4466	666160.8562	0
CI-C5	-17.5686	-0.0103	0.0007	0.0029	0.0000	-17.5657	170265.3303	0
SD-2	824.4663	0.0293	0.0329	414.6966	0.0000	1239.1628	2816527.440	0
CI-B9	-12.0302	-0.0102	0.0005	1.3445	0.0000	-10.6857	118129.4226	0
SD-1	-984.9340	-0.0382	0.0393	363.1575	0.0000	-621.7765	2578314.115	0
CI-A12	-137.6300	-0.0472	0.0055	43.4682	0.0000	-94.1618	291524.4940	0
CI-B12	80.1512	0.0035	0.0032	94.6199	0.0000	174.7711	2286280.363	0
DI-A10	-82.7580	-0.0559	0.0033	17.0183	0.0000	-65.7397	148064.7936	0
Off-B12	486.7480	0.0224	0.0194	12.0533	0.0000	498.8013	2172006.109	0
DI-B10	-21.9793	-0.0225	0.0009	52.3054	0.0000	30.3261	97693.6897	0
DI-R13	-1.5508	-0.0004	0.0001	0.1636	0.0000	-1.3873	436823.2571	0

CI-A7	-2.6839	-0.0039	0.0001	0.0003	0.0000	-2.6836	69610.1418	0
DI-R12	-110.4900	-0.0410	0.0044	0.1746	0.0000	-110.3154	269522.8270	0
CI-R11	-9.8276	-0.0066	0.0004	0.0082	0.0000	-9.8194	148027.1253	0

The total continuity error was 2936.5 cubic feet
The remaining total volume was 3127.7 cubic feet
Your mean node continuity error was Excellent
Your worst node continuity error was Excellent

Table E19 - Junction Inflow & Outflow Listing
Units are either ft^3 or m^3 depending on the units in your model.

Junction Name	Constant Inflow to Node	User Inflow to Node	Interface Inflow to Node	DWF Inlow to Node	Inflow through Outfall	RNF Layer Inflow to Node	Outflow from Node	Evaporation from Node	Inflow from 2D Layer
DI-L25	0.0000	66654.0000	0.0000	0.0000	2.3654	0.0000	2.2826E+06	0.0000	
CI-G3	0.0000	26982.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
DI-L24	0.0000	60633.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
CI-F2	0.0000	31509.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
CI-E5	0.0000	18891.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
CI-D9	0.0000	16209.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
SD-4	0.0000	103873.5050	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
CI-C7	0.0000	136885.5050	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
CI-D6	0.0000	333180.0100	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
CI-C5	0.0000	85122.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
SD-2	0.0000	60349.5250	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
CI-B9	0.0000	59058.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
CI-A12	0.0000	71649.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
CI-B12	0.0000	8649.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
DI-A10	0.0000	73998.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Off-B12	0.0000	1.0863E+06	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
DI-B10	0.0000	48861.0200	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
DI-R13	0.0000	48789.0000	0.0000	0.0000	1.5688	0.0000	218410.5716	0.0000	
CI-A7	0.0000	34803.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
DI-R12	0.0000	60687.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
CI-R11	0.0000	74007.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	

Table E20 - Junction Flooding and Volume Listing.
The maximum volume is the total volume in the node including the volume in the flooded storage area. This is the max volume at any time. The volume in the flooded storage area is the total volume above the ground elevation, where the flooded pond storage area starts.
The fourth column is instantaneous, the fifth is the sum of the flooded volume over the entire simulation
Units are either ft^3 or m^3 depending on the units.

Junction Name	Surcharged Time (min)	Flooded Time(min)	Out of 1D-System (Flooded Volume)	Maximum Volume	Passed to 2D cell OR Volume Stored in allowed Flood Pond of 1D-System
DI-L25	0.0000	0.0000	0.0000	50.2640	0.0000
CI-G3	0.0000	0.0000	0.0000	14.9185	0.0000
DI-L24	0.0000	0.0000	0.0000	77.2273	0.0000
CI-F2	131.2000	0.0000	0.0000	45.2426	0.0000
MH-L23	133.1833	0.0000	0.0000	87.5815	0.0000
CI-E5	129.9667	0.0000	0.0000	52.9124	0.0000
MH-L22	123.6167	0.0000	0.0000	91.1730	0.0000
CI-D9	135.0500	0.0000	0.0000	78.0300	0.0000

L-21	131.3167	0.0000	0.0000	92.9906	0.0000	
CI-D8	133.4333	83.3417	0.0000	4910.5238	5693.1022	
SD-4	112.8333	0.0000	0.0000	83.7568	0.0000	
MH-D7	136.3833	93.9167	0.0000	8460.4842	9809.0427	
CI-C7	111.4833	53.1583	0.0000	323.2700	326.0152	
SD-3	0.0000	0.0000	0.0000	54.9690	0.0000	
CI-D6	129.7583	114.0583	0.0000	25051.8036	28974.8963	
CI-C5	110.4000	16.3083	0.0000	62.7250	23.7956	
SD-2	0.0000	0.0000	0.0000	50.6498	0.0000	
CI-B9	100.6833	0.0000	0.0000	40.1797	0.0000	
SD-1	0.0000	0.0000	0.0000	39.0361	0.0000	
CI-A12	119.8667	0.0000	0.0000	35.8184	0.0000	
CI-B12	160.9667	66.5583	0.0000	1995.5063	2170.6008	
DI-A10	105.7333	0.0000	0.0000	32.3010	0.0000	
Off-B12	167.2167	88.2500	0.0000	14524.9101	16848.6134	
DI-B10	141.1667	105.1000	0.0000	18187.8056	20199.2841	
DI-R13	0.0000	0.0000	0.0000	16.6985	0.0000	
CI-A7	0.0000	0.0000	0.0000	15.7416	0.0000	
DI-R12	0.0000	0.0000	0.0000	16.9225	0.0000	
CI-R11	0.0000	0.0000	0.0000	17.2644	0.0000	

==================================
| Simulation Specific Information |
==================================

Number of Input Conduits.....	28	Number of Simulated Conduits.....	30
Number of Natural Channels.....	4	Number of Junctions.....	28
Number of Storage Junctions.....	11	Number of Weirs.....	0
Number of Orifices.....	0	Number of Pumps.....	0
Number of Free Outfalls.....	2	Number of Tide Gate Outfalls.....	0

===
| Average % Change in Junction or Conduit is defined as: |
| Conduit % Change ==> 100.0 (Q(n+1) - Q(n)) / Qfull |
| Junction % Change ==> 100.0 (Y(n+1) - Y(n)) / Yfull |
===

The Conduit with the largest average change was..L_L-SD4   with   0.302 percent
The Junction with the largest average change was.MH-D7   with   0.012 percent
The Conduit with the largest sinuosity was.......L_L-OFFB12 with   13.836

==
| Table E21. Continuity balance at the end of the simulation |
| Junction Inflow, Outflow or Street Flooding |
| Error = Inflow + Initial Volume - Outflow - Final   Volume |
==

Inflow Junction	Inflow Volume,ft^3	Average Inflow, cfs
DI-L25	66656.3654	0.3857
CI-G3	26983.1476	0.1562
DI-L24	60635.4676	0.3509
CI-F2	31510.3416	0.1824
CI-E5	18891.8038	0.1093
CI-D9	16209.6914	0.0938
SD-4	103875.5165	0.6011
CI-C7	136888.1144	0.7922
CI-D6	333186.7202	1.9282
CI-C5	85124.0295	0.4926
SD-2	60350.0486	0.3492
CI-B9	59059.7708	0.3418
CI-A12	71651.7038	0.4147

CI-B12	8649.3683	0.0501
DI-A10	74000.1176	0.4282
Off-B12	1.08626E+06	6.2862
DI-B10	48861.4467	0.2828
DI-R13	48790.5688	0.2824
CI-A7	34804.0285	0.2014
DI-R12	60688.9887	0.3512
CI-R11	74009.2904	0.4283
DI-L25	-2.283E+06	-13.2093
DI-R13	-218410.5716	-1.2640

Outflow Junction	Outflow Volume,ft^3	Average Outflow, cfs
DI-L25	2.28258E+06	13.2093
DI-R13	218410.5716	1.2640

Initial system volume	=	0.0000 Cu Ft
Total system inflow volume	=	2.507044E+06 Cu Ft
Inflow + Initial volume	=	2.507044E+06 Cu Ft
Total system outflow	=	2.500986E+06 Cu Ft
Volume left in system	=	3127.7168 Cu Ft
Evaporation	=	0.0000 Cu Ft
Outflow + Final Volume	=	2.504113E+06 Cu Ft

Total Model Continuity Error		
Error in Continuity, Percent	=	0.1169
Error in Continuity, ft^3	=	2930.952
+ Error means a continuity loss, - a gain		

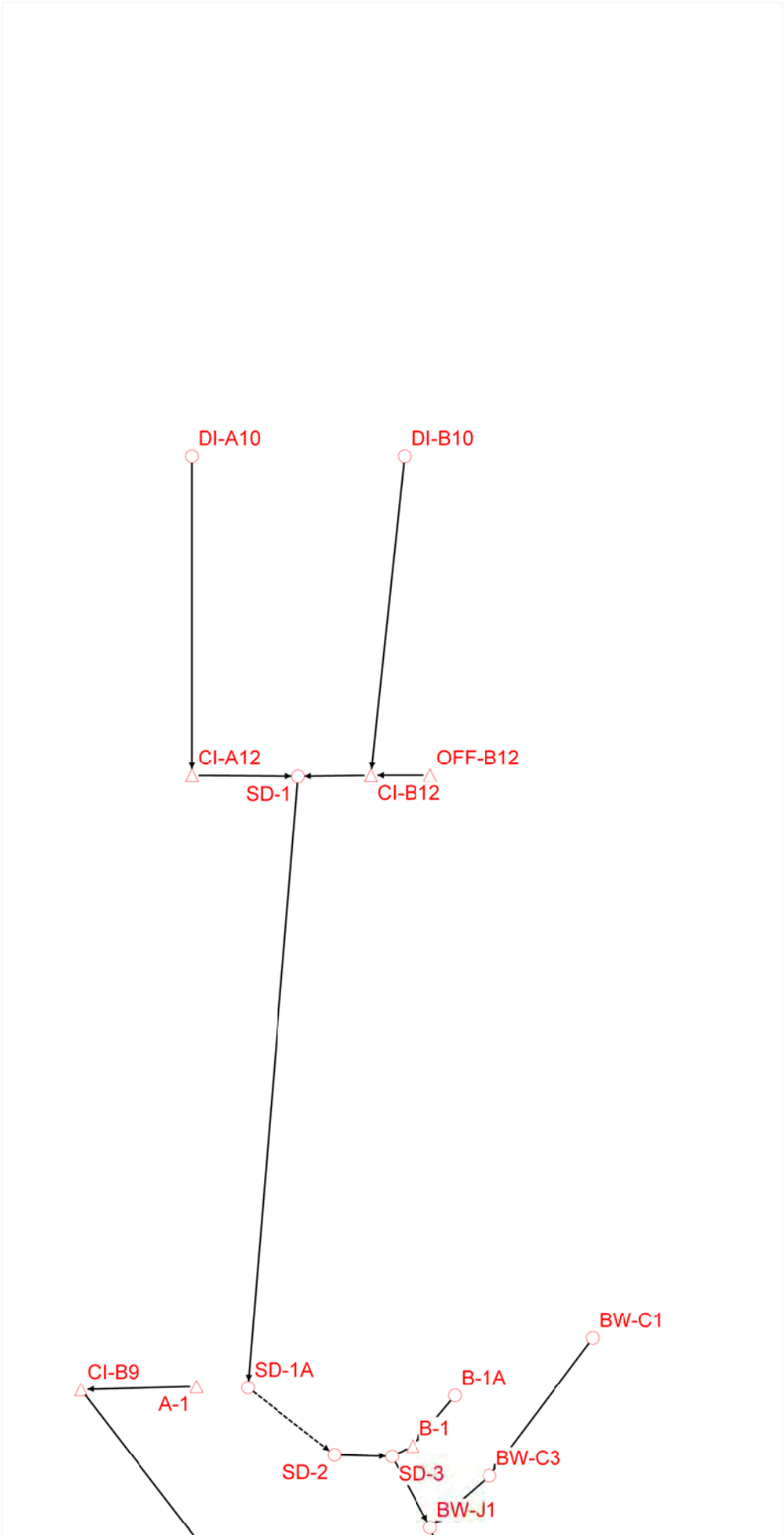
Table E22. Numerical Model judgement section

Your overall error was		0.1169 percent
Worst nodal error was in node SD-3	with	0.0595 percent
Of the total inflow this loss was		0.0708 percent
Your overall continuity error was		Excellent
		Excellent Efficiency
Efficiency of the simulation		1.17
Most Number of Non Convergences at one Node		0.
Total Number Non Convergences at all Nodes		0.
Total Number of Nodes with Non Convergences		0.

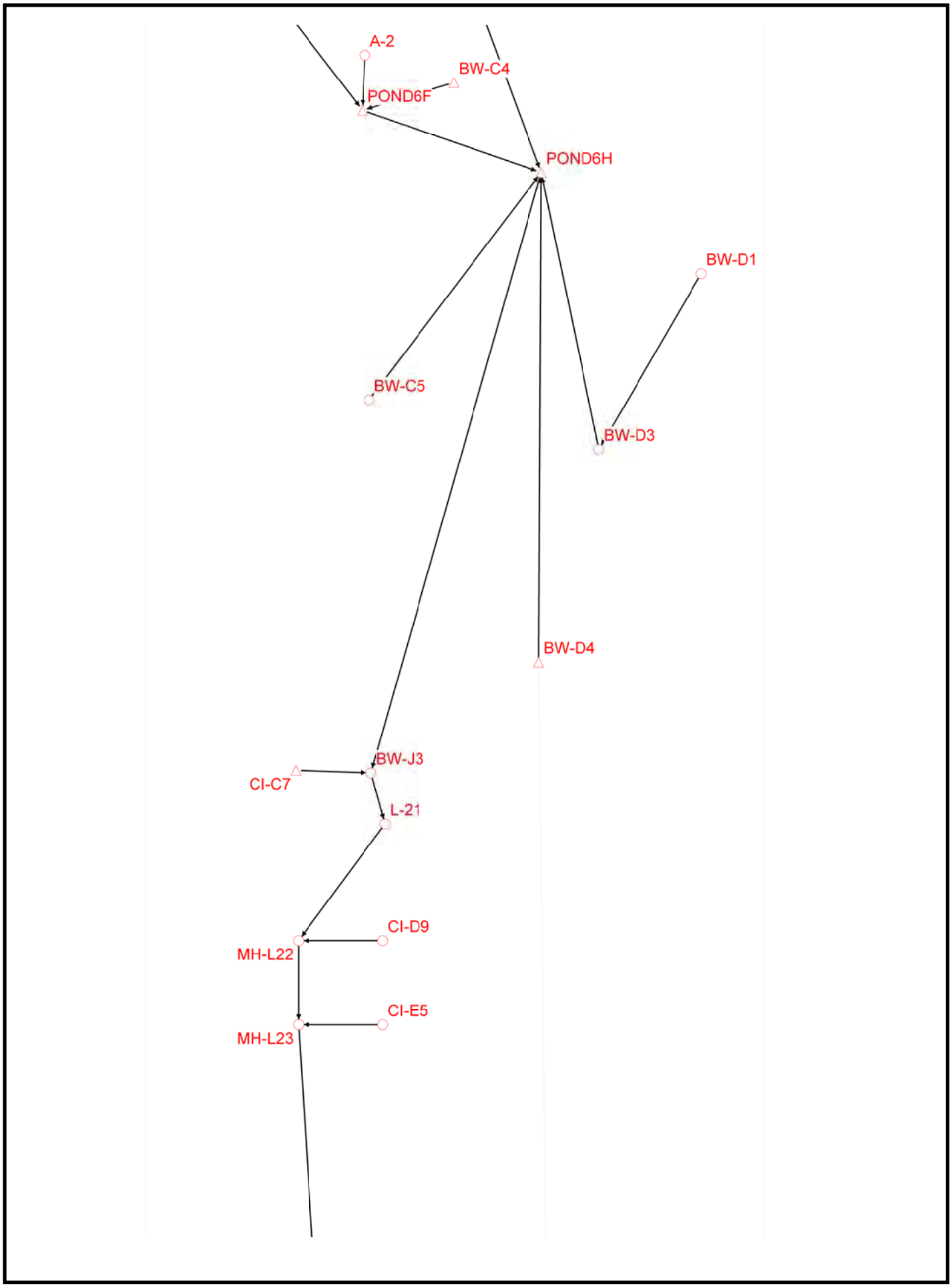
```
===> Hydraulic model simulation ended normally.
===> XP-SWMM Simulation ended normally.



===> Your input file was named  : P:\Projects\290PMC\PhaseII\DRA\Models\SWMM\Outfalls8A-8B\BW8South_Exist_100-R1.DAT

===> Your output file was named : P:\Projects\290PMC\PhaseII\DRA\Models\SWMM\Outfalls8A-8B\BW8South_Exist_100-R1.out


*============================================================*
|             SWMM Simulation Date and Time Summary          |
*============================================================*
| Starting Date... February    8, 2012  Time...   14: 2:36: 0  |
|   Ending Date... February    8, 2012  Time...   14:18:25:59  |
|  Elapsed Time...   15.82650 minutes or    949.59000 seconds  |
*============================================================*
```

OUTFALLS 8A/8B
SWMM OUTPUT
100 YR- MITIGATED CONDITIONS

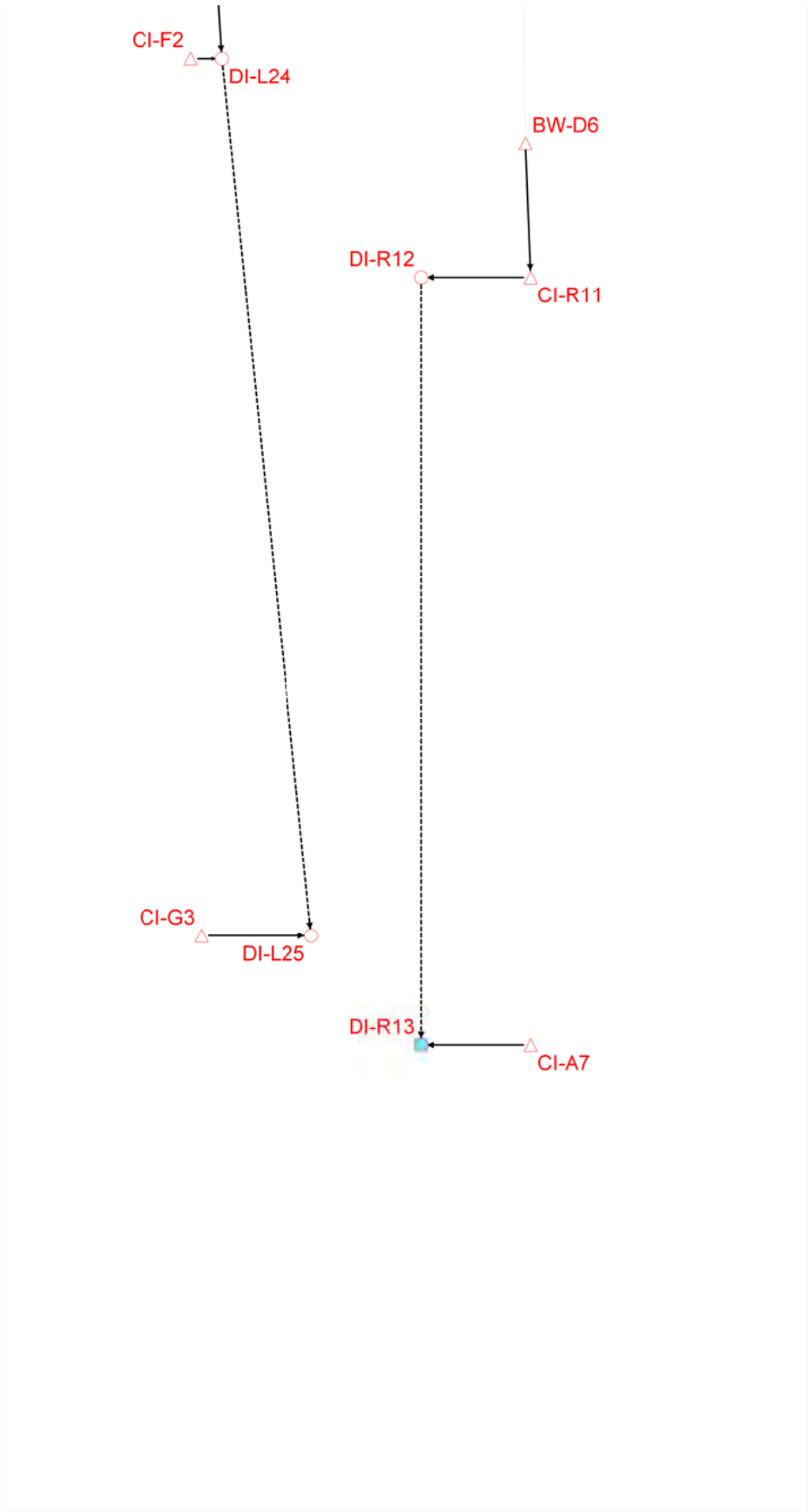
OUTFALLS 8A/8B
MITIGATED CONDITIONS SWMM LAYOUT



OUTFALLS 8A/8B
MITIGATED CONDITIONS SWMM LAYOUT



OUTFALLS 8A/8B
MITIGATED CONDITIONS SWMM LAYOUT



Current Directory: C:\XPS\xpstorm
Engine Name: C:\XPS\xpstorm\SWMMEN~1.EXE

Input File : 0PMC\PhaseII\DRA\Models\SWMM\Outfalls8A-8B\BW8South_Mit_100-R3.XP

```
          *================================================*
          |                    xpswmm                      |
          |     Storm and Wastewater Management Model      |
          |           Interface Version: 10.52             |
          |              Engine Version: 10.54             |
          |================================================|
          |                                                |
          |                Developed by                    |
          |                                                |
          |                XP Software                     |
          |                                                |
          |================================================|
          |      XP Software       November, 2006          |
          |       Data File Version --->    11.9           |
          |       Serial Number: 42-xxx-0000               |
          |          XP Software (Evaluation)              |
          *================================================*
```

Engine Name: C:\XPS\xpstorm\SWMMEN~1.EXE

```
*================================================*
|       Input and Output file names by Layer     |
*================================================*

 Input File  to Layer #     1 JOT.US

 Output File to Layer #     1 JOT.US


*==========================================================*
|   Special command line arguments in XP-SWMM2000. This   |
|   now includes program defaults. $Keywords are the program|
|   defaults.  Other Keywords are from the SWMMCOM.CFG file.|
|   or the command line or any cfg file on the command line.|
|   Examples include these in the file xpswm.bat under the  |
|   section :solve or in the windows version XPSWMM32 in the|
|   file solve.bat                                         |
|                                                          |
|   Note: the cfg file should be in the subdirectory swmxp  |
|         or defined by the set variable in the xpswm.bat   |
|         file.  Some examples of the command lines possible|
|         are shown below:                                 |
|                                                          |
|   swmmd swmmcom.cfg                                      |
|   swmmd my.cfg                                           |
|   swmmd nokeys nconv5 perv extranwq                      |
*==========================================================*

 $powerstation                        0.0000         1         2
 $perv                                0.0000         0         4
 $oldegg                              0.0000         0         7
 $as                                  0.0000         0        11
 $noflat                              0.0000         0        21
 $oldomega                            0.0000         0        24
 $oldvol                              0.0000         1        28
 $implicit                            0.0000         1        29
 $oldhot                              0.0000         1        31
 $oldscs                              0.0000         0        33
 $flood                               0.0000         1        40
 $nokeys                              0.0000         0        42
 $pzero                               0.0000         0        55
 $oldvol2                             0.0000         2        59
 $storage2                            0.0000         3        62
 $oldhot1                             0.0000         1        63
 $pumpwt                              0.0000         1        70
 $ecloss                              0.0000         1        77
 $exout                               0.0000         0        97
 SPATIAL=0.55                         0.5500         5       124
 $djref = -1.0                       -0.1000         3       143
 $weirlen = 50                       50.0000         1       153
 $oldbnd                              0.0000         1       154
 $nogrelev                            0.0000         1       161
 $ncmid                               0.0000         0       164
 $new_nl_97                           0.0000         2       290
 $best97                              0.0000         1       294
 $newbound                            0.0000         1       295
 $q_tol = 0.01                        0.0001         1       316
 $new_storage                         0.0000         1       322
 $old_iteration                       0.0000         1       333
 MINLEN=10                           10.0000         1       346
 $review_elevation                    0.0000         1       383
 $use_half_volume                     0.0000         1       385
 $min_ts = 0.5                        0.5000         1       407
 $design_restart = on                 0.0000         1       412
 $zero_value=1.e-05                   0.0000         1       415
 $relax_depth = on                    0.0000         1       427
 $saveallpts = on                     0.0000         1       434

 *==========================================================*
```

| Parameter Values on the Tapes Common Block.These are the |
| values read from the data file and dynamically allocated |
| by the model for this simulation. |

Number of Subcatchments in the Runoff Block (NW)....	0
Number of Channel/Pipes in the Runoff Block (NG)....	0
Runoff Water quality constituents (NRQ).....	0
Runoff Land Uses per Subcatchment (NLU).....	0
Number of Elements in the Transport Block (NET).....	0
Number of Storage Junctions in Transport (NTSE).....	0
Number of Input Hydrographs in Transport (NTH).....	0
Number of Elements in the Extran Block (NEE).....	42
Number of Groundwater Subcatchments in Runoff (NGW).	0
Number of Interface locations for all Blocks (NIE)..	42
Number of Pumps in Extran (NEP).....	0
Number of Orifices in Extran (NEO).....	0
Number of Tide Gates/Free Outfalls in Extran (NTG)..	2
Number of Extran Weirs (NEW).....	0
Number of scs hydrograph points.....	1
Number of Extran printout locations (NPO).....	0
Number of Tide elements in Extran (NTE).....	2
Number of Natural channels (NNC).....	1
Number of Storage junctions in Extran (NVSE).....	16
Number of Time history data points in Extran(NTVAL).	0
Number of Variable storage elements in Extran (NVST)	9
Number of Input Hydrographs in Extran (NEH).....	33
Number of Particle sizes in Transport Block (NPS)...	0
Number of User defined conduits (NHW).....	42
Number of Connecting conduits in Extran (NECC).....	20
Number of Upstream elements in Transport (NTCC).....	10
Number of Storage/treatment plants (NSTU).....	1
Number of Values for R1 lines in Transport (NR1)....	0
Number of Nodes to be allowed for (NNOD).....	42
Number of Plugs in a Storage Treatment Unit.....	1

```
#########################################################
#    Entry made to the HYDRAULIC Layer(Block) of SWMM #
#    Last Updated June,2005 by XP Software            #
```

BW8 SOUTH OF US290 EXISTING CONDITIONS 100-YR

HYDRAULICS TABLES IN THE OUTPUT FILE
These are the more important tables in the output file.
You can use your editor to find the table numbers, for example: search for Table E20 to check continuity.
This output file can be imported into a Word Processor and printed on US letter or A4 paper using portrait mode, courier font, a size of 8 pt. and margins of 0.75
Table E1 - Basic Conduit Data
Table E2 - Conduit Factor Data
Table E3a - Junction Data
Table E3b - Junction Data
Table E4 - Conduit Connectivity Data
Table E4a - Dry Weather Flow Data
Table E4b - Real Time Control Data
Table E5 - Junction Time Step Limitation Summary
Table E5a - Conduit Explicit Condition Summary
Table E6 - Final Model Condition
Table E7 - Iteration Summary
Table E8 - Junction Time Step Limitation Summary
Table E9 - Junction Summary Statistics
Table E10 - Conduit Summary Statistics
Table E11 - Area assumptions used in the analysis
Table E12 - Mean conduit information
Table E13 - Channel losses(H) and culvert info
Table E13a - Culvert Analysis Classification
Table E14 - Natural Channel Overbank Flow Information
Table E14a - Natural Channel Encroachment Information
Table E14b - Floodplain Mapping
Table E15 - Spreadsheet Info List
Table E15a - Spreadsheet Reach List
Table E16 - New Conduit Output Section
Table E17 - Pump Operation
Table E18 - Junction Continuity Error
Table E19 - Junction Inflow & Outflow Listing
Table E20 - Junction Flooding and Volume List
Table E21 - Continuity balance at simulation end
Table E22 - Model Judgement Section

Time Control from Hydraulics Job Control

Year.....	1995	Month.....	1
Day.....	1	Hour.....	0
Minute.....	0	Second.....	0

Control information for simulation

Integration cycles.....	17280
Length of integration step is.....	10.00 seconds
Simulation length.....	48.00 hours

```
Do not create equiv. pipes(NEQUAL).         0
Use U.S. customary units for I/O...         0
Printing starts in cycle...........         1
Intermediate printout intervals of.       500 cycles
Intermediate printout intervals of.     83.33 minutes
Summary printout intervals of......       500 cycles
Summary printout time interval of..     83.33 minutes
Hot start file parameter (REDO)....         0
Initial time.......................      0.00 hours

Iteration variables: Flow Tolerance.   0.00010
                     Head Tolerance.   0.00005
    Minimum depth (m or ft).........   0.00001
    Underrelaxation parameter.......   0.85000
    Time weighting parameter........   0.85000
    Conduit roughness factor........   1.00000
    Flow adjustment factor..........   1.00000
    Initial Condition Smoothing.....         0
    Courant Time Step Factor........   1.00000
    Default Expansion/Contraction K.   0.00000
    Default Entrance/Exit K.........   0.00000
    Routing Method..................   Dynamic Wave
Default surface area of junctions...     12.57 square feet.
Minimum Junction/Conduit Depth......   0.00001 feet.
Ponding Area Coefficient............   5000.00
Ponding Area Exponent...............    1.0000
Minimum Orifice Length..............   1000.00 feet.
NJSW input hydrograph junctions.....    33
     or user defined hydrographs....
```

Natural Cross-Section information for Channel L_L-SD1

Cross-Section ID (from X1 card) : 1.0 Channel sequence number : 1

Left Overbank Length :	379.6 ft	Maximum Elevation :	104.83 ft.
Main Channel Length :	379.6 ft	Maximum Depth :	4.70 ft.
Right Overbank Length :	379.6 ft	Maximum Section Area :	130.8555 ft^2
		Maximum hydraulic radius :	2.62 ft.
Manning N : 0.013	to Station 34.8	Max topwidth :	48.98 ft.
" " : 0.035	in main Channel	Maximum Wetted Perimeter :	5.00E+01 ft
" " : 0.013	Beyond station 80.9	Max left bank area :	0.00 ft^2
		Max right bank area :	0.70 ft^2
Allowable Encroachment Depth :	0.00 ft	Max center channel area :	130.1588 ft^2

Table E1 - Conduit Data

Inp Num	Conduit Name	Length (ft)	Conduit Class	Area (ft^2)	Manning Coef.	Max Width (ft)	Depth (ft)	Trapezoid Side Slopes	
1	L-POND6F	56.6500	Rectangle	24.0000	0.0130	6.0000	4.0000		
2	L_L-C7	74.1800	Rectangle	8.0000	0.0130	4.0000	2.0000		
3	L_L-SD1	379.5660	Natural	130.8555	0.0350	48.9780	4.7040		
4	L_L-A12	89.1860	Rectangle	8.0000	0.0130	4.0000	2.0000		
5	L_L-B12	88.5750	Rectangle	8.0000	0.0130	4.0000	2.0000		
6	L_L-A10	312.2900	Rectangle	8.0000	0.0130	4.0000	2.0000		
7	L_L-OFFB12	24.7010	Rectangle	8.0000	0.0130	4.0000	2.0000		
8	L_L-B10	305.7430	Rectangle	8.0000	0.0130	4.0000	2.0000		
9	L_L-B1	57.0000	Rectangle	21.0000	0.0130	7.0000	3.0000		
10	L_L-C2	231.0000	Rectangle	9.0000	0.0130	3.0000	3.0000		
11	L_L-D2	396.0000	Rectangle	9.0000	0.0130	3.0000	3.0000		
12	L-SD2	140.0000	Rectangle	21.0000	0.0130	7.0000	3.0000		
13	L_L-D4	110.0000	Rectangle	6.0000	0.0130	3.0000	2.0000		
14	L_L-B9	67.0000	Circular	3.1416	0.0130	2.0000	2.0000		
15	Link48	16.0000	Circular	3.1416	0.0130	2.0000	2.0000		
16	L-POND	97.0000	Rectangle	12.0000	0.0130	4.0000	3.0000		
17	L_L-G3	46.6500	Circular	1.7671	0.0130	1.5000	1.5000		
18	L_L-F2	46.5870	Circular	1.7671	0.0130	1.5000	1.5000		
19	L_L-L23	326.5420	Rectangle	24.0000	0.0130	6.0000	4.0000		
20	L_L-E5	93.0670	Circular	1.7671	0.0130	1.5000	1.5000		
21	L_L-L22	105.8570	Rectangle	24.0000	0.0130	6.0000	4.0000		
22	L_L-D9	93.2300	Circular	4.9087	0.0130	2.5000	2.5000		
23	L_L-L21	101.7760	Rectangle	24.0000	0.0130	6.0000	4.0000		
24	L_L-A7	62.7790	Rectangle	6.0000	0.0130	3.0000	2.0000		
25	L_L-R11	59.1540	Rectangle	6.0000	0.0130	3.0000	2.0000		
26	L-CIB9	182.0000	Rectangle	8.0000	0.0130	4.0000	2.0000		
27	L-B1	25.0000	Rectangle	6.0000	0.0130	3.0000	2.0000		
28	Link55	151.0000	Rectangle	21.0000	0.0130	7.0000	3.0000		
29	Link56	96.0000	Circular	3.1416	0.0130	2.0000	2.0000		
30	Link57	38.0000	Circular	3.1416	0.0130	2.0000	2.0000		
31	Link58	149.2200	Rectangle	24.0000	0.0130	6.0000	4.0000		
32	L-POND6H	108.6100	Rectangle	12.0000	0.0130	4.0000	3.0000		
33	L-BWD6	215.3000	Circular	3.1416	0.0130	2.0000	2.0000		
34	L-A2	36.0000	Circular	3.1416	0.0130	2.0000	2.0000		
35	Link65	127.0000	Rectangle	12.0000	0.0140	4.0000	3.0000		
36	ditch2	206.3800	Trapezoid	218.2950	0.0350	0.0100	6.3000	5.5000	5.5000
37	228.1	749.2990	Rectangle	24.0000	0.0130	6.0000	4.0000		
38	ML Ditch	749.2990	Trapezoid	0.7500	0.0350	0.0100	0.5000	3.0000	3.0000
39	255.1	707.9150	Rectangle	10.0000	0.0130	5.0000	2.0000		
40	MLDitch2	707.9150	Trapezoid	0.7500	0.0350	0.0100	0.5000	3.0000	3.0000

Total length of all conduits .... 7629.4710 feet

Table E2 - Conduit Factor Data

Conduit Name	Number of Barrels	Entrance Loss Coef	Exit Loss Coef	Exp/Contc Coefficnt	Time Weighting Parameter	Low Flow Roughness Factor	Depth at Which n Changes	Flow Routing
L-POND6F	1.0000	0.0000	0.0000	0.0000	0.8500	1.0000	0.0000	Standard - Dynamic Wave
L_L-B1	1.0000	0.0000	0.0000	0.0000	0.8500	1.0000	0.0000	Standard - Dynamic Wave
L-SD2	1.0000	0.0000	0.0000	0.0000	0.8500	1.0000	0.0000	Standard - Dynamic Wave
L_L-D4	1.0000	0.0000	0.5000	0.0000	0.8500	1.0000	0.0000	Standard - Dynamic Wave
L-POND	1.0000	0.0000	0.5000	0.0000	0.8500	1.0000	0.0000	Standard - Dynamic Wave
L-CIB9	1.0000	0.0000	0.5000	0.0000	0.8500	1.0000	0.0000	Standard - Dynamic Wave
Link56	1.0000	0.0000	0.5000	0.0000	0.8500	1.0000	0.0000	Standard - Dynamic Wave
Link57	1.0000	0.0000	0.5000	0.0000	0.8500	1.0000	0.0000	Standard - Dynamic Wave
Link58	1.0000	0.5000	0.0000	0.0000	0.8500	1.0000	0.0000	Standard - Dynamic Wave
L-POND6H	1.0000	0.5000	0.5000	0.0000	0.8500	1.0000	0.0000	Standard - Dynamic Wave
L-A2	1.0000	0.0000	0.5000	0.0000	0.8500	1.0000	0.0000	Standard - Dynamic Wave

==
| If there are messages about (sqrt(g*d)*dt/dx), or |
| the sqrt(wave celerity)*time step/conduit length |
| in the output file all it means is that the |
| program will lower the internal time step to |
| satisfy this condition (explicit condition). |
| You control the actual internal time step by |
| using the minimum courant time step factor in the |
| HYDRAULICS job control. The message put in words |
| states that the smallest conduit with the fastest |
| velocity will control the time step selection. |
| You have further control by using the modify |
| conduit option in the HYDRAULICS Job Control. |
==

Conduit Name	Courant Ratio	
L-POND6F	2.00	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L_L-C7	1.08	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L_L-SD1	0.24	
L_L-A12	0.90	
L_L-B12	0.91	
L_L-A10	0.26	
L_L-OFFB12	3.25	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L_L-B10	0.26	
L_L-B1	1.72	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L_L-C2	0.43	
L_L-D2	0.25	
L-SD2	0.70	
L_L-D4	0.73	
L_L-B9	1.20	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
Link48	5.02	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-POND	1.01	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L_L-G3	1.49	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L_L-F2	1.49	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L_L-L23	0.35	
L_L-E5	0.75	
L_L-L22	1.07	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L_L-D9	0.96	
L_L-L21	1.12	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L_L-A7	1.28	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L_L-R11	1.36	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-CIB9	0.44	
L-B1	3.21	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
Link55	0.65	
Link56	0.84	
Link57	2.11	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
Link58	0.76	
L-POND6H	0.90	
L-BWD6	0.37	
L-A2	2.23	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
Link65	0.77	
ditch2	0.49	
228.1	0.15	
ML Ditch	0.04	
255.1	0.11	
MLDitch2	0.04	

==================
| Conduit Volume |
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Full pipe or full open conduit volume
Input full depth volume.....   1.6799E+05 cubic feet

==
| Table E3a - Junction Data |
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Inp Num	Junction Name	Ground Elevation	Crown Elevation	Invert Elevation	Qinst cfs	Initial Depth-ft	Interface Flow (%)
1	BW-J3	103.1800	103.1800	95.6900	0.0000	0.0000	100.0000
2	CI-C7	103.4000	103.4000	99.0000	0.0000	0.0000	100.0000
3	SD-1A	106.3000	106.3000	100.0000	0.0000	0.0000	100.0000
4	SD-1	105.1240	105.1240	100.4200	0.0000	0.0000	100.0000
5	CI-A12	105.1100	102.5300	100.5300	0.0000	0.0000	100.0000
6	CI-B12	104.8800	104.8800	100.5100	0.0000	0.0000	100.0000
7	DI-A10	104.0000	104.0000	100.8400	0.0000	0.0000	100.0000

8	OFF-B12	104.8800	104.8800	100.5200	0.0000	0.0000	100.0000
9	DI-B10	104.0000	104.0000	100.7000	0.0000	0.0000	100.0000
10	BW-C4	103.3000	103.3000	97.9900	0.0000	0.0000	100.0000
11	BW-C3	103.8220	103.8220	97.4300	0.0000	0.0000	100.0000
12	BW-C5	104.1200	104.1200	97.9900	0.0000	0.0000	100.0000
13	B-1	102.9000	102.9000	98.5300	0.0000	0.0000	100.0000
14	BW-C1	105.0400	105.0400	97.6600	0.0000	0.0000	100.0000
15	BW-D4	102.1200	102.1200	98.4900	0.0000	0.0000	100.0000
16	BW-D3	102.8600	102.8600	97.2600	0.0000	0.0000	100.0000
17	BW-D1	104.4100	104.4100	98.4000	0.0000	0.0000	100.0000
18	A-1	104.1900	104.1900	99.8800	0.0000	0.0000	100.0000
19	SD-2	106.0000	106.0000	97.5100	0.0000	0.0000	100.0000
20	BW-J1	103.3100	103.3100	97.3000	0.0000	0.0000	100.0000
21	CI-B9	102.4700	101.4100	99.4100	0.0000	0.0000	100.0000
22	B-1A	102.9000	102.9000	98.6800	0.0000	0.0000	100.0000
23	POND6H	103.5000	103.5000	96.3900	0.0000	0.0000	100.0000
24	DI-L25	102.8400	102.3000	93.3100	0.0000	0.0000	100.0000
25	CI-G3	101.9200	98.0500	96.5500	0.0000	0.0000	100.0000
26	DI-L24	103.0000	102.7100	94.5800	0.0000	0.0000	100.0000
27	CI-F2	102.6900	98.6700	97.1700	0.0000	0.0000	100.0000
28	MH-L23	104.7300	99.1200	95.1200	0.0000	0.0000	100.0000
29	CI-E5	103.8000	99.4000	97.9000	0.0000	0.0000	100.0000
30	MH-L22	104.8100	99.9200	95.2700	0.0000	0.0000	100.0000
31	CI-D9	103.5300	103.5300	97.0000	0.0000	0.0000	100.0000
32	DI-R13	102.1500	101.6300	96.2200	0.0000	0.0000	100.0000
33	CI-A7	101.2300	98.3100	96.3100	0.0000	0.0000	100.0000
34	DI-R12	102.6000	102.6000	97.2700	0.0000	0.0000	100.0000
35	CI-R11	101.9300	99.5800	97.3400	0.0000	0.0000	100.0000
36	L-21	104.0000	99.4100	95.4100	0.0000	0.0000	100.0000
37	SD-3	103.1500	103.1500	97.3600	0.0000	0.0000	100.0000
38	BW-D6	102.5300	102.5300	97.8000	0.0000	0.0000	100.0000
39	A-2	102.3440	102.3440	97.9900	0.0000	0.0000	100.0000
40	POND6F	103.5000	103.5000	97.6000	0.0000	0.0000	100.0000

Table E3b - Junction Data

Inp Num	Junction Name	X Coord.	Y Coord.	Type of Manhole	Type of Inlet	Maximum Capacity	Pavement Shape	Pavement Slope
1	BW-J3	3.057832E+06	13.88085E+06	F	Normal		0	0.0000
2	CI-C7	3.057743E+06	13.88086E+06	F	Normal		0	0.0000
3	SD-1A	3.057796E+06	13.88188E+06	F	Normal		0	0.0000
4	SD-1	3.057843E+06	13.88246E+06	No P	Normal		0	0.0000
5	CI-A12	3.057743E+06	13.88246E+06	No P	Normal		0	0.0000
6	CI-B12	3.057911E+06	13.88246E+06	F	Normal		0	0.0000
7	DI-A10	3.057743E+06	13.88276E+06	F	Normal		0	0.0000
8	OFF-B12	3.057967E+06	13.88246E+06	F	Normal		0	0.0000
9	DI-B10	3.057943E+06	13.88276E+06	F	Normal		0	0.0000
10	BW-C4	3.057930E+06	13.88167E+06	F	Normal		0	0.0000
11	BW-C3	3.058023E+06	13.88180E+06	F	Normal		0	0.0000
12	BW-C5	3.057830E+06	13.88130E+06	F	Normal		0	0.0000
13	B-1	3.057950E+06	13.88183E+06	F	Normal		0	0.0000
14	BW-C1	3.058120E+06	13.88193E+06	F	Normal		0	0.0000
15	BW-D4	3.058031E+06	13.88099E+06	F	Normal		0	0.0000
16	BW-D3	3.058103E+06	13.88124E+06	F	Normal		0	0.0000
17	BW-D1	3.058225E+06	13.88145E+06	F	Normal		0	0.0000
18	A-1	3.057747E+06	13.88188E+06	F	Normal		0	0.0000
19	SD-2	3.057877E+06	13.88182E+06	F	Normal		0	0.0000
20	BW-J1	3.057967E+06	13.88175E+06	F	Normal		0	0.0000
21	CI-B9	3.057639E+06	13.88188E+06	No P	Normal		0	0.0000
22	B-1A	3.057990E+06	13.88187E+06	F	Normal		0	0.0000
23	POND6H	3.058034E+06	13.88157E+06	F	Normal		0	0.0000
24	DI-L25	3.057846E+06	13.87945E+06	No P	Normal		0	0.0000
25	CI-G3	3.057746E+06	13.87945E+06	No P	Normal		0	0.0000
26	DI-L24	3.057765E+06	13.88025E+06	No P	Normal		0	0.0000
27	CI-F2	3.057736E+06	13.88025E+06	No P	Normal		0	0.0000
28	MH-L23	3.057746E+06	13.88055E+06	No P	Normal		0	0.0000
29	CI-E5	3.057846E+06	13.88055E+06	No P	Normal		0	0.0000
30	MH-L22	3.057746E+06	13.88065E+06	No P	Normal		0	0.0000
31	CI-D9	3.057846E+06	13.88065E+06	F	Normal		0	0.0000
32	DI-R13	3.057946E+06	13.87935E+06	No P	Normal		0	0.0000
33	CI-A7	3.058046E+06	13.87935E+06	No P	Normal		0	0.0000
34	DI-R12	3.057946E+06	13.88005E+06	No P	Normal		0	0.0000
35	CI-R11	3.058046E+06	13.88005E+06	No P	Normal		0	0.0000
36	L-21	3.057849E+06	13.88079E+06	No P	Normal		0	0.0000
37	SD-3	3.057931E+06	13.88182E+06	F	Normal		0	0.0000
38	BW-D6	3.058041E+06	13.88018E+06	F	Normal		0	0.0000
39	A-2	3.057825E+06	13.88171E+06	F	Normal		0	0.0000
40	POND6F	3.057822E+06	13.88164E+06	F	Normal		0	0.0000

Table E4 - Conduit Connectivity

Input Number	Conduit Name	Upstream Node	Downstream Node	Upstream Elevation	Downstream Elevation	
1	L-POND6F	BW-J3	L-21	95.6900	95.4100	No Design
2	L_L-C7	CI-C7	BW-J3	99.0000	98.6600	No Design
3	L_L-SD1	SD-1	SD-1A	100.4200	100.0000	No Design
4	L_L-A12	CI-A12	SD-1	100.5300	100.4200	No Design
5	L_L-B12	CI-B12	SD-1	100.5100	100.4200	No Design
6	L_L-A10	DI-A10	CI-A12	100.8400	100.5300	No Design
7	L_L-OFFB12	OFF-B12	CI-B12	100.5300	100.5100	No Design

8	L_L-B10	DI-B10	CI-B12	100.7000	100.5200	No Design
9	L_L-B1	SD-3	BW-J1	97.3600	97.3000	No Design
10	L_L-C2	BW-C1	BW-C3	97.6600	97.4300	No Design
11	L_L-D2	BW-D1	BW-D3	98.4000	97.2600	No Design
12	L-SD2	SD-2	SD-3	97.5100	97.3600	No Design
13	L_L-D4	BW-D4	POND6H	98.4900	97.2600	No Design
14	L_L-B9	A-1	CI-B9	99.8800	99.4100	No Design
15	Link48	B-1A	B-1	98.6800	98.5300	No Design
16	L-POND	BW-D3	POND6H	97.2600	97.1600	No Design
17	L_L-G3	CI-G3	DI-L25	96.5500	96.4600	No Design
18	L_L-F2	CI-F2	DI-L24	97.1700	97.0800	No Design
19	L_L-L23	MH-L23	DI-L24	95.1200	94.5800	No Design
20	L_L-E5	CI-E5	MH-L23	97.9000	97.6200	No Design
21	L_L-L22	MH-L22	MH-L23	95.9200	95.1200	No Design
22	L_L-D9	CI-D9	MH-L22	97.0000	96.7700	No Design
23	L_L-L21	L-21	MH-L22	95.4100	95.2700	No Design
24	L_L-A7	CI-A7	DI-R13	96.3100	96.2200	No Design
25	L_L-R11	CI-R11	DI-R12	97.3400	97.2700	No Design
26	L-CIB9	CI-B9	POND6F	99.4100	99.0900	No Design
27	L-B1	B-1	SD-3	98.5300	98.5000	No Design
28	Link55	BW-J1	POND6H	97.3000	97.1500	No Design
29	Link56	BW-C5	POND6H	97.9900	97.6800	No Design
30	Link57	BW-C4	POND6F	97.9900	97.8000	No Design
31	Link58	POND6H	BW-J3	96.3900	96.2400	No Design
32	L-POND6H	POND6F	POND6H	97.6000	97.4900	No Design
33	L-BWD6	BW-D6	CI-R11	97.8000	97.5800	No Design
34	L-A2	A-2	POND6F	97.9900	97.8100	No Design
35	Link65	BW-C3	BW-J1	97.4300	97.3000	No Design
36	ditch2	SD-1A	SD-2	100.0000	97.5100	No Design
37	228.1	DI-L24	DI-L25	94.5800	93.3100	No Design
38	ML Ditch	DI-L24	DI-L25	102.2100	101.8000	No Design
39	255.1	DI-R12	DI-R13	97.2700	96.2200	No Design
40	MLDitch2	DI-R12	DI-R13	102.1000	101.1300	No Design

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| Storage Junction Data |
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STORAGE JUNCTION NUMBER OR NAME	JUNCTION TYPE	MAXIMUM OR CONSTANT SURFACE AREA (FT2)	PEAK OR CONSTANT VOLUME (CUBIC FEET)	CROWN ELEVATION (FT)	DEPTH STARTS FROM
CI-C7	Stage/Area	16683.4800	63160.7458	103.4000	Spill Crest
CI-A12	Stage/Area	16683.4800	66163.7722	105.1100	Spill Crest
CI-B12	Stage/Area	16683.4800	62660.2414	104.8800	Spill Crest
OFF-B12	Stage/Area	24262.9200	82430.6560	104.8800	Spill Crest
BW-C4	Stage/Area	16683.4800	78342.7126	103.3000	Spill Crest
B-1	Stage/Area	16683.4800	62660.2414	102.9000	Spill Crest
BW-D4	Stage/Area	16683.4800	50314.4662	102.1200	Spill Crest
A-1	Stage/Area	16683.4800	61659.2326	104.1900	Spill Crest
CI-B9	Stage/Area	4660.9200	11852.5457	102.4700	Spill Crest
POND6H	Stage/Area	111078.0000	421984.4284	103.5000	Node Invert
CI-G3	Stage/Area	16683.4800	79343.7214	101.9200	Spill Crest
CI-F2	Stage/Area	16683.4800	81846.2434	102.6900	Spill Crest
CI-A7	Stage/Area	16683.4800	71836.1554	101.2300	Spill Crest
CI-R11	Stage/Area	16683.4800	66330.6070	101.9300	Spill Crest
BW-D6	Stage/Area	16683.4800	68666.2942	102.5300	Spill Crest
POND6F	Stage/Area	35109.3600	136738.7890	103.5000	Node Invert

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| Variable storage data for node | CI-C7
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	99.0000	0.0000	4.3560	0.0000	0.0001	0.0000
2	99.0250	0.0250	150.8265	1.5068	0.0035	0.0000
3	99.0500	0.0500	297.2970	7.0058	0.0068	0.0002
4	99.0750	0.0750	443.7675	16.2082	0.0102	0.0004
5	99.1000	0.1000	590.2380	29.0898	0.0135	0.0007
6	99.1250	0.1250	736.7085	45.6428	0.0169	0.0010
7	99.1500	0.1500	883.1790	65.8638	0.0203	0.0015
8	99.1750	0.1750	1029.6495	89.7507	0.0236	0.0021
9	99.2000	0.2000	1176.1200	117.3026	0.0270	0.0027
10	99.2250	0.2250	1475.5950	150.3783	0.0339	0.0035
11	99.2500	0.2500	1775.0700	190.9540	0.0408	0.0044
12	99.2750	0.2750	2074.5450	239.0256	0.0476	0.0055
13	99.3000	0.3000	2374.0200	294.5906	0.0545	0.0068
14	99.3250	0.3250	2673.4950	357.6475	0.0614	0.0082
15	99.3500	0.3500	2972.9700	428.1952	0.0683	0.0098
16	99.3750	0.3750	3272.4450	506.2330	0.0751	0.0116
17	99.4000	0.4000	3571.9200	591.7602	0.0820	0.0136
18	99.4125	0.4125	3773.3850	637.6626	0.0866	0.0146
19	99.4250	0.4250	3974.8500	686.0836	0.0912	0.0158
20	99.4375	0.4375	4176.3150	737.0232	0.0959	0.0169
21	99.4500	0.4500	4377.7800	790.4814	0.1005	0.0181
22	99.4625	0.4625	4579.2450	846.4581	0.1051	0.0194
23	99.4750	0.4750	4780.7100	904.9533	0.1098	0.0208
24	99.4875	0.4875	4982.1750	965.9670	0.1144	0.0222
25	99.5000	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	99.5125	0.5125	5439.5550	1095.8877	0.1249	0.0252
27	99.5250	0.5250	5695.4700	1165.4755	0.1308	0.0268
28	99.5375	0.5375	5951.3850	1238.2625	0.1366	0.0284
29	99.5500	0.5500	6207.3000	1314.2486	0.1425	0.0302
30	99.5625	0.5625	6463.2150	1393.4340	0.1484	0.0320
31	99.5750	0.5750	6719.1300	1475.8184	0.1542	0.0339
32	99.5875	0.5875	6975.0450	1561.4020	0.1601	0.0358

33	99.6000	0.6000	7230.9600	1650.1848	0.1660	0.0379
34	99.6250	0.6250	7824.4650	1838.3288	0.1796	0.0422
35	99.6500	0.6500	8417.9700	2041.3141	0.1932	0.0469
36	99.6750	0.6750	9011.4750	2259.1400	0.2069	0.0519
37	99.7000	0.7000	9604.9800	2491.8063	0.2205	0.0572
38	99.7250	0.7250	10198.4850	2739.3125	0.2341	0.0629
39	99.7500	0.7500	10791.9900	3001.6585	0.2478	0.0689
40	99.7750	0.7750	11385.4950	3278.8440	0.2614	0.0753
41	99.8000	0.8000	11979.0000	3570.8687	0.2750	0.0820
42	99.8250	0.8250	12567.0600	3877.6651	0.2885	0.0890
43	99.8500	0.8500	13155.1200	4199.1644	0.3020	0.0964
44	99.8750	0.8750	13743.1800	4535.3663	0.3155	0.1041
45	99.9000	0.9000	14331.2400	4886.2709	0.3290	0.1122
46	99.9250	0.9250	14919.3000	5251.8780	0.3425	0.1206
47	99.9500	0.9500	15507.3600	5632.1876	0.3560	0.1293
48	99.9750	0.9750	16095.4200	6027.1995	0.3695	0.1384
49	100.0000	1.0000	16683.4800	6436.9138	0.3830	0.1478
50	103.4000	4.4000	16683.4800	63160.7458	0.3830	1.4500

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| Variable storage data for node | CI-A12
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	100.5300	0.0000	4.3560	0.0000	0.0001	0.0000
2	100.5550	0.0250	150.8265	1.5068	0.0035	0.0000
3	100.5800	0.0500	297.2970	7.0058	0.0068	0.0002
4	100.6050	0.0750	443.7675	16.2082	0.0102	0.0004
5	100.6300	0.1000	590.2380	29.0898	0.0135	0.0007
6	100.6550	0.1250	736.7085	45.6428	0.0169	0.0010
7	100.6800	0.1500	883.1790	65.8638	0.0203	0.0015
8	100.7050	0.1750	1029.6495	89.7507	0.0236	0.0021
9	100.7300	0.2000	1176.1200	117.3026	0.0270	0.0027
10	100.7550	0.2250	1475.5950	150.3783	0.0339	0.0035
11	100.7800	0.2500	1775.0700	190.9540	0.0408	0.0044
12	100.8050	0.2750	2074.5450	239.0256	0.0476	0.0055
13	100.8300	0.3000	2374.0200	294.5906	0.0545	0.0068
14	100.8550	0.3250	2673.4950	357.6475	0.0614	0.0082
15	100.8800	0.3500	2972.9700	428.1952	0.0683	0.0098
16	100.9050	0.3750	3272.4450	506.2330	0.0751	0.0116
17	100.9300	0.4000	3571.9200	591.7602	0.0820	0.0136
18	100.9425	0.4125	3773.3850	637.6626	0.0866	0.0146
19	100.9550	0.4250	3974.8500	686.0836	0.0912	0.0158
20	100.9675	0.4375	4176.3150	737.0232	0.0959	0.0169
21	100.9800	0.4500	4377.7800	790.4814	0.1005	0.0181
22	100.9925	0.4625	4579.2450	846.4581	0.1051	0.0194
23	101.0050	0.4750	4780.7100	904.9533	0.1098	0.0208
24	101.0175	0.4875	4982.1750	965.9670	0.1144	0.0222
25	101.0300	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	101.0425	0.5125	5439.5550	1095.8877	0.1249	0.0252
27	101.0550	0.5250	5695.4700	1165.4755	0.1308	0.0268
28	101.0675	0.5375	5951.3850	1238.2625	0.1366	0.0284
29	101.0800	0.5500	6207.3000	1314.2486	0.1425	0.0302
30	101.0925	0.5625	6463.2150	1393.4340	0.1484	0.0320
31	101.1050	0.5750	6719.1300	1475.8184	0.1542	0.0339
32	101.1175	0.5875	6975.0450	1561.4020	0.1601	0.0358
33	101.1300	0.6000	7230.9600	1650.1848	0.1660	0.0379
34	101.1550	0.6250	7824.4650	1838.3288	0.1796	0.0422
35	101.1800	0.6500	8417.9700	2041.3141	0.1932	0.0469
36	101.2050	0.6750	9011.4750	2259.1400	0.2069	0.0519
37	101.2300	0.7000	9604.9800	2491.8063	0.2205	0.0572
38	101.2550	0.7250	10198.4850	2739.3125	0.2341	0.0629
39	101.2800	0.7500	10791.9900	3001.6585	0.2478	0.0689
40	101.3050	0.7750	11385.4950	3278.8440	0.2614	0.0753
41	101.3300	0.8000	11979.0000	3570.8687	0.2750	0.0820
42	101.3550	0.8250	12567.0600	3877.6651	0.2885	0.0890
43	101.3800	0.8500	13155.1200	4199.1644	0.3020	0.0964
44	101.4050	0.8750	13743.1800	4535.3663	0.3155	0.1041
45	101.4300	0.9000	14331.2400	4886.2709	0.3290	0.1122
46	101.4550	0.9250	14919.3000	5251.8780	0.3425	0.1206
47	101.4800	0.9500	15507.3600	5632.1876	0.3560	0.1293
48	101.5050	0.9750	16095.4200	6027.1995	0.3695	0.1384
49	101.5300	1.0000	16683.4800	6436.9138	0.3830	0.1478
50	105.1100	4.5800	16683.4800	66163.7722	0.3830	1.5189

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| Variable storage data for node | CI-B12
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	100.5100	0.0000	4.3560	0.0000	0.0001	0.0000
2	100.5350	0.0250	150.8265	1.5068	0.0035	0.0000
3	100.5600	0.0500	297.2970	7.0058	0.0068	0.0002
4	100.5850	0.0750	443.7675	16.2082	0.0102	0.0004
5	100.6100	0.1000	590.2380	29.0898	0.0135	0.0007
6	100.6350	0.1250	736.7085	45.6428	0.0169	0.0010
7	100.6600	0.1500	883.1790	65.8638	0.0203	0.0015
8	100.6850	0.1750	1029.6495	89.7507	0.0236	0.0021
9	100.7100	0.2000	1176.1200	117.3026	0.0270	0.0027
10	100.7350	0.2250	1475.5950	150.3783	0.0339	0.0035
11	100.7600	0.2500	1775.0700	190.9540	0.0408	0.0044
12	100.7850	0.2750	2074.5450	239.0256	0.0476	0.0055
13	100.8100	0.3000	2374.0200	294.5906	0.0545	0.0068
14	100.8350	0.3250	2673.4950	357.6475	0.0614	0.0082
15	100.8600	0.3500	2972.9700	428.1952	0.0683	0.0098
16	100.8850	0.3750	3272.4450	506.2330	0.0751	0.0116

17	100.9100	0.4000	3571.9200	591.7602	0.0820	0.0136
18	100.9225	0.4125	3773.3850	637.6626	0.0866	0.0146
19	100.9350	0.4250	3974.8500	686.0836	0.0912	0.0158
20	100.9475	0.4375	4176.3150	737.0232	0.0959	0.0169
21	100.9600	0.4500	4377.7800	790.4814	0.1005	0.0181
22	100.9725	0.4625	4579.2450	846.4581	0.1051	0.0194
23	100.9850	0.4750	4780.7100	904.9533	0.1098	0.0208
24	100.9975	0.4875	4982.1750	965.9670	0.1144	0.0222
25	101.0100	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	101.0225	0.5125	5439.5550	1095.8877	0.1249	0.0252
27	101.0350	0.5250	5695.4700	1165.4755	0.1308	0.0268
28	101.0475	0.5375	5951.3850	1238.2625	0.1366	0.0284
29	101.0600	0.5500	6207.3000	1314.2486	0.1425	0.0302
30	101.0725	0.5625	6463.2150	1393.4340	0.1484	0.0320
31	101.0850	0.5750	6719.1300	1475.8184	0.1542	0.0339
32	101.0975	0.5875	6975.0450	1561.4020	0.1601	0.0358
33	101.1100	0.6000	7230.9600	1650.1848	0.1660	0.0379
34	101.1350	0.6250	7824.4650	1838.3288	0.1796	0.0422
35	101.1600	0.6500	8417.9700	2041.3141	0.1932	0.0469
36	101.1850	0.6750	9011.4750	2259.1400	0.2069	0.0519
37	101.2100	0.7000	9604.9800	2491.8063	0.2205	0.0572
38	101.2350	0.7250	10198.4850	2739.3125	0.2341	0.0629
39	101.2600	0.7500	10791.9900	3001.6585	0.2478	0.0689
40	101.2850	0.7750	11385.4950	3278.8440	0.2614	0.0753
41	101.3100	0.8000	11979.0000	3570.8687	0.2750	0.0820
42	101.3350	0.8250	12567.0600	3877.6651	0.2885	0.0890
43	101.3600	0.8500	13155.1200	4199.1644	0.3020	0.0964
44	101.3850	0.8750	13743.1800	4535.3663	0.3155	0.1041
45	101.4100	0.9000	14331.2400	4886.2709	0.3290	0.1122
46	101.4350	0.9250	14919.3000	5251.8780	0.3425	0.1206
47	101.4600	0.9500	15507.3600	5632.1876	0.3560	0.1293
48	101.4850	0.9750	16095.4200	6027.1995	0.3695	0.1384
49	101.5100	1.0000	16683.4800	6436.9138	0.3830	0.1478
50	104.8800	4.3700	16683.4800	62660.2414	0.3830	1.4385

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| Variable storage data for node | OFF-B12
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	100.5200	0.0000	43.5600	0.0000	0.0010	0.0000
2	100.5212	0.0013	1148.8950	0.5901	0.0264	0.0000
3	100.5225	0.0025	2254.2300	2.6786	0.0517	0.0001
4	100.5237	0.0037	3359.5650	6.1643	0.0771	0.0001
5	100.5250	0.0050	4464.9000	11.0383	0.1025	0.0003
6	100.5262	0.0063	5570.2350	17.2975	0.1279	0.0004
7	100.5275	0.0075	6675.5700	24.9407	0.1532	0.0006
8	100.5288	0.0088	7780.9050	33.9672	0.1786	0.0008
9	100.5300	0.0100	8886.2400	44.3765	0.2040	0.0010
10	100.6538	0.1338	9512.4150	1182.5735	0.2184	0.0271
11	100.7775	0.2575	10138.5900	2398.2736	0.2327	0.0551
12	100.9012	0.3812	10764.7650	3691.4752	0.2471	0.0847
13	101.0250	0.5050	11390.9400	5062.1769	0.2615	0.1162
14	101.1487	0.6288	12017.1150	6510.3775	0.2759	0.1495
15	101.2725	0.7525	12643.2900	8036.0761	0.2903	0.1845
16	101.3962	0.8762	13269.4650	9639.2717	0.3046	0.2213
17	101.5200	1.0000	13895.6400	11319.9637	0.3190	0.2599
18	101.6450	1.1250	14538.1500	13096.9244	0.3337	0.3007
19	101.7700	1.2500	15180.6600	14954.2053	0.3485	0.3433
20	101.8950	1.3750	15823.1700	16891.8059	0.3632	0.3878
21	102.0200	1.5000	16465.6800	18909.7259	0.3780	0.4341
22	102.1450	1.6250	17108.1900	21007.9646	0.3927	0.4823
23	102.2700	1.7500	17750.7000	23186.5219	0.4075	0.5323
24	102.3950	1.8750	18393.2100	25445.3973	0.4222	0.5841
25	102.5200	2.0000	19035.7200	27784.5905	0.4370	0.6378
26	102.6450	2.1250	19689.1200	30204.7782	0.4520	0.6934
27	102.7700	2.2500	20342.5200	32706.6446	0.4670	0.7508
28	102.8950	2.3750	20995.9200	35290.1895	0.4820	0.8102
29	103.0200	2.5000	21649.3200	37955.4127	0.4970	0.8713
30	103.1450	2.6250	22302.7200	40702.3140	0.5120	0.9344
31	103.2700	2.7500	22956.1200	43530.8932	0.5270	0.9993
32	103.3950	2.8750	23609.5200	46441.1502	0.5420	1.0661
33	103.5200	3.0000	24262.9200	49433.0848	0.5570	1.1348
34	104.8800	4.3600	24262.9200	82430.6560	0.5570	1.8923

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| Variable storage data for node | BW-C4
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	97.9900	0.0000	4.3560	0.0000	0.0001	0.0000
2	98.0150	0.0250	150.8265	1.5068	0.0035	0.0000
3	98.0400	0.0500	297.2970	7.0058	0.0068	0.0002
4	98.0650	0.0750	443.7675	16.2082	0.0102	0.0004
5	98.0900	0.1000	590.2380	29.0898	0.0135	0.0007
6	98.1150	0.1250	736.7085	45.6428	0.0169	0.0010
7	98.1400	0.1500	883.1790	65.8638	0.0203	0.0015
8	98.1650	0.1750	1029.6495	89.7507	0.0236	0.0021
9	98.1900	0.2000	1176.1200	117.3026	0.0270	0.0027
10	98.2150	0.2250	1475.5950	150.3783	0.0339	0.0035
11	98.2400	0.2500	1775.0700	190.9540	0.0408	0.0044
12	98.2650	0.2750	2074.5450	239.0256	0.0476	0.0055
13	98.2900	0.3000	2374.0200	294.5906	0.0545	0.0068
14	98.3150	0.3250	2673.4950	357.6475	0.0614	0.0082
15	98.3400	0.3500	2972.9700	428.1952	0.0683	0.0098
16	98.3650	0.3750	3272.4450	506.2330	0.0751	0.0116

17	98.3900	0.4000	3571.9200	591.7602	0.0820	0.0136
18	98.4025	0.4125	3773.3850	637.6626	0.0866	0.0146
19	98.4150	0.4250	3974.8500	686.0836	0.0912	0.0158
20	98.4275	0.4375	4176.3150	737.0232	0.0959	0.0169
21	98.4400	0.4500	4377.7800	790.4814	0.1005	0.0181
22	98.4525	0.4625	4579.2450	846.4581	0.1051	0.0194
23	98.4650	0.4750	4780.7100	904.9533	0.1098	0.0208
24	98.4775	0.4875	4982.1750	965.9670	0.1144	0.0222
25	98.4900	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	98.5025	0.5125	5439.5550	1095.8877	0.1249	0.0252
27	98.5150	0.5250	5695.4700	1165.4755	0.1308	0.0268
28	98.5275	0.5375	5951.3850	1238.2625	0.1366	0.0284
29	98.5400	0.5500	6207.3000	1314.2486	0.1425	0.0302
30	98.5525	0.5625	6463.2150	1393.4340	0.1484	0.0320
31	98.5650	0.5750	6719.1300	1475.8184	0.1542	0.0339
32	98.5775	0.5875	6975.0450	1561.4020	0.1601	0.0358
33	98.5900	0.6000	7230.9600	1650.1848	0.1660	0.0379
34	98.6150	0.6250	7824.4650	1838.3288	0.1796	0.0422
35	98.6400	0.6500	8417.9700	2041.3141	0.1932	0.0469
36	98.6650	0.6750	9011.4750	2259.1400	0.2069	0.0519
37	98.6900	0.7000	9604.9800	2491.8063	0.2205	0.0572
38	98.7150	0.7250	10198.4850	2739.3125	0.2341	0.0629
39	98.7400	0.7500	10791.9900	3001.6585	0.2478	0.0689
40	98.7650	0.7750	11385.4950	3278.8440	0.2614	0.0753
41	98.7900	0.8000	11979.0000	3570.8687	0.2750	0.0820
42	98.8150	0.8250	12567.0600	3877.6651	0.2885	0.0890
43	98.8400	0.8500	13155.1200	4199.1644	0.3020	0.0964
44	98.8650	0.8750	13743.1800	4535.3663	0.3155	0.1041
45	98.8900	0.9000	14331.2400	4886.2709	0.3290	0.1122
46	98.9150	0.9250	14919.3000	5251.8780	0.3425	0.1206
47	98.9400	0.9500	15507.3600	5632.1876	0.3560	0.1293
48	98.9650	0.9750	16095.4200	6027.1995	0.3695	0.1384
49	98.9900	1.0000	16683.4800	6436.9138	0.3830	0.1478
50	103.3000	5.3100	16683.4800	78342.7126	0.3830	1.7985

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| Variable storage data for node | B-1
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	98.5300	0.0000	4.3560	0.0000	0.0001	0.0000
2	98.5550	0.0250	150.8265	1.5068	0.0035	0.0000
3	98.5800	0.0500	297.2970	7.0058	0.0068	0.0002
4	98.6050	0.0750	443.7675	16.2082	0.0102	0.0004
5	98.6300	0.1000	590.2380	29.0898	0.0135	0.0007
6	98.6550	0.1250	736.7085	45.6428	0.0169	0.0010
7	98.6800	0.1500	883.1790	65.8638	0.0203	0.0015
8	98.7050	0.1750	1029.6495	89.7507	0.0236	0.0021
9	98.7300	0.2000	1176.1200	117.3026	0.0270	0.0027
10	98.7550	0.2250	1475.5950	150.3783	0.0339	0.0035
11	98.7800	0.2500	1775.0700	190.9540	0.0408	0.0044
12	98.8050	0.2750	2074.5450	239.0256	0.0476	0.0055
13	98.8300	0.3000	2374.0200	294.5906	0.0545	0.0068
14	98.8550	0.3250	2673.4950	357.6475	0.0614	0.0082
15	98.8800	0.3500	2972.9700	428.1952	0.0683	0.0098
16	98.9050	0.3750	3272.4450	506.2330	0.0751	0.0116
17	98.9300	0.4000	3571.9200	591.7602	0.0820	0.0136
18	98.9425	0.4125	3773.3850	637.6626	0.0866	0.0146
19	98.9550	0.4250	3974.8500	686.0836	0.0912	0.0158
20	98.9675	0.4375	4176.3150	737.0232	0.0959	0.0169
21	98.9800	0.4500	4377.7800	790.4814	0.1005	0.0181
22	98.9925	0.4625	4579.2450	846.4581	0.1051	0.0194
23	99.0050	0.4750	4780.7100	904.9533	0.1098	0.0208
24	99.0175	0.4875	4982.1750	965.9670	0.1144	0.0222
25	99.0300	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	99.0425	0.5125	5439.5550	1095.8877	0.1249	0.0252
27	99.0550	0.5250	5695.4700	1165.4755	0.1308	0.0268
28	99.0675	0.5375	5951.3850	1238.2625	0.1366	0.0284
29	99.0800	0.5500	6207.3000	1314.2486	0.1425	0.0302
30	99.0925	0.5625	6463.2150	1393.4340	0.1484	0.0320
31	99.1050	0.5750	6719.1300	1475.8184	0.1542	0.0339
32	99.1175	0.5875	6975.0450	1561.4020	0.1601	0.0358
33	99.1300	0.6000	7230.9600	1650.1848	0.1660	0.0379
34	99.1550	0.6250	7824.4650	1838.3288	0.1796	0.0422
35	99.1800	0.6500	8417.9700	2041.3141	0.1932	0.0469
36	99.2050	0.6750	9011.4750	2259.1400	0.2069	0.0519
37	99.2300	0.7000	9604.9800	2491.8063	0.2205	0.0572
38	99.2550	0.7250	10198.4850	2739.3125	0.2341	0.0629
39	99.2800	0.7500	10791.9900	3001.6585	0.2478	0.0689
40	99.3050	0.7750	11385.4950	3278.8440	0.2614	0.0753
41	99.3300	0.8000	11979.0000	3570.8687	0.2750	0.0820
42	99.3550	0.8250	12567.0600	3877.6651	0.2885	0.0890
43	99.3800	0.8500	13155.1200	4199.1644	0.3020	0.0964
44	99.4050	0.8750	13743.1800	4535.3663	0.3155	0.1041
45	99.4300	0.9000	14331.2400	4886.2709	0.3290	0.1122
46	99.4550	0.9250	14919.3000	5251.8780	0.3425	0.1206
47	99.4800	0.9500	15507.3600	5632.1876	0.3560	0.1293
48	99.5050	0.9750	16095.4200	6027.1995	0.3695	0.1384
49	99.5300	1.0000	16683.4800	6436.9138	0.3830	0.1478
50	102.9000	4.3700	16683.4800	62660.2414	0.3830	1.4385

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| Variable storage data for node | BW-D4
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft

1	98.4900	0.0000	4.3560	0.0000	0.0001	0.0000
2	98.5150	0.0250	150.8265	1.5068	0.0035	0.0000
3	98.5400	0.0500	297.2970	7.0058	0.0068	0.0002
4	98.5650	0.0750	443.7675	16.2082	0.0102	0.0004
5	98.5900	0.1000	590.2380	29.0898	0.0135	0.0007
6	98.6150	0.1250	736.7085	45.6428	0.0169	0.0010
7	98.6400	0.1500	883.1790	65.8638	0.0203	0.0015
8	98.6650	0.1750	1029.6495	89.7507	0.0236	0.0021
9	98.6900	0.2000	1176.1200	117.3026	0.0270	0.0027
10	98.7150	0.2250	1475.5950	150.3783	0.0339	0.0035
11	98.7400	0.2500	1775.0700	190.9540	0.0408	0.0044
12	98.7650	0.2750	2074.5450	239.0256	0.0476	0.0055
13	98.7900	0.3000	2374.0200	294.5906	0.0545	0.0068
14	98.8150	0.3250	2673.4950	357.6475	0.0614	0.0082
15	98.8400	0.3500	2972.9700	428.1952	0.0683	0.0098
16	98.8650	0.3750	3272.4450	506.2330	0.0751	0.0116
17	98.8900	0.4000	3571.9200	591.7602	0.0820	0.0136
18	98.9025	0.4125	3773.3850	637.6626	0.0866	0.0146
19	98.9150	0.4250	3974.8500	686.0836	0.0912	0.0158
20	98.9275	0.4375	4176.3150	737.0232	0.0959	0.0169
21	98.9400	0.4500	4377.7800	790.4814	0.1005	0.0181
22	98.9525	0.4625	4579.2450	846.4581	0.1051	0.0194
23	98.9650	0.4750	4780.7100	904.9533	0.1098	0.0208
24	98.9775	0.4875	4982.1750	965.9670	0.1144	0.0222
25	98.9900	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	99.0025	0.5125	5439.5550	1095.8877	0.1249	0.0252
27	99.0150	0.5250	5695.4700	1165.4755	0.1308	0.0268
28	99.0275	0.5375	5951.3850	1238.2625	0.1366	0.0284
29	99.0400	0.5500	6207.3000	1314.2486	0.1425	0.0302
30	99.0525	0.5625	6463.2150	1393.4340	0.1484	0.0320
31	99.0650	0.5750	6719.1300	1475.8184	0.1542	0.0339
32	99.0775	0.5875	6975.0450	1561.4020	0.1601	0.0358
33	99.0900	0.6000	7230.9600	1650.1848	0.1660	0.0379
34	99.1150	0.6250	7824.4650	1838.3288	0.1796	0.0422
35	99.1400	0.6500	8417.9700	2041.3141	0.1932	0.0469
36	99.1650	0.6750	9011.4750	2259.1400	0.2069	0.0519
37	99.1900	0.7000	9604.9800	2491.8063	0.2205	0.0572
38	99.2150	0.7250	10198.4850	2739.3125	0.2341	0.0629
39	99.2400	0.7500	10791.9900	3001.6585	0.2478	0.0689
40	99.2650	0.7750	11385.4950	3278.8440	0.2614	0.0753
41	99.2900	0.8000	11979.0000	3570.8687	0.2750	0.0820
42	99.3150	0.8250	12567.0600	3877.6651	0.2885	0.0890
43	99.3400	0.8500	13155.1200	4199.1644	0.3020	0.0964
44	99.3650	0.8750	13743.1800	4535.3663	0.3155	0.1041
45	99.3900	0.9000	14331.2400	4886.2709	0.3290	0.1122
46	99.4150	0.9250	14919.3000	5251.8780	0.3425	0.1206
47	99.4400	0.9500	15507.3600	5632.1876	0.3560	0.1293
48	99.4650	0.9750	16095.4200	6027.1995	0.3695	0.1384
49	99.4900	1.0000	16683.4800	6436.9138	0.3830	0.1478
50	102.1200	3.6300	16683.4800	50314.4662	0.3830	1.1551

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| Variable storage data for node | A-1
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	99.8800	0.0000	4.3560	0.0000	0.0001	0.0000
2	99.9050	0.0250	150.8265	1.5068	0.0035	0.0000
3	99.9300	0.0500	297.2970	7.0058	0.0068	0.0002
4	99.9550	0.0750	443.7675	16.2082	0.0102	0.0004
5	99.9800	0.1000	590.2380	29.0898	0.0135	0.0007
6	100.0050	0.1250	736.7085	45.6428	0.0169	0.0010
7	100.0300	0.1500	883.1790	65.8638	0.0203	0.0015
8	100.0550	0.1750	1029.6495	89.7507	0.0236	0.0021
9	100.0800	0.2000	1176.1200	117.3026	0.0270	0.0027
10	100.1050	0.2250	1475.5950	150.3783	0.0339	0.0035
11	100.1300	0.2500	1775.0700	190.9540	0.0408	0.0044
12	100.1550	0.2750	2074.5450	239.0256	0.0476	0.0055
13	100.1800	0.3000	2374.0200	294.5906	0.0545	0.0068
14	100.2050	0.3250	2673.4950	357.6475	0.0614	0.0082
15	100.2300	0.3500	2972.9700	428.1952	0.0683	0.0098
16	100.2550	0.3750	3272.4450	506.2330	0.0751	0.0116
17	100.2800	0.4000	3571.9200	591.7602	0.0820	0.0136
18	100.2925	0.4125	3773.3850	637.6626	0.0866	0.0146
19	100.3050	0.4250	3974.8500	686.0836	0.0912	0.0158
20	100.3175	0.4375	4176.3150	737.0232	0.0959	0.0169
21	100.3300	0.4500	4377.7800	790.4814	0.1005	0.0181
22	100.3425	0.4625	4579.2450	846.4581	0.1051	0.0194
23	100.3550	0.4750	4780.7100	904.9533	0.1098	0.0208
24	100.3675	0.4875	4982.1750	965.9670	0.1144	0.0222
25	100.3800	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	100.3925	0.5125	5439.5550	1095.8877	0.1249	0.0252
27	100.4050	0.5250	5695.4700	1165.4755	0.1308	0.0268
28	100.4175	0.5375	5951.3850	1238.2625	0.1366	0.0284
29	100.4300	0.5500	6207.3000	1314.2486	0.1425	0.0302
30	100.4425	0.5625	6463.2150	1393.4340	0.1484	0.0320
31	100.4550	0.5750	6719.1300	1475.8184	0.1542	0.0339
32	100.4675	0.5875	6975.0450	1561.4020	0.1601	0.0358
33	100.4800	0.6000	7230.9600	1650.1848	0.1660	0.0379
34	100.5050	0.6250	7824.4650	1838.3288	0.1796	0.0422
35	100.5300	0.6500	8417.9700	2041.3141	0.1932	0.0469
36	100.5550	0.6750	9011.4750	2259.1400	0.2069	0.0519
37	100.5800	0.7000	9604.9800	2491.8063	0.2205	0.0572
38	100.6050	0.7250	10198.4850	2739.3125	0.2341	0.0629
39	100.6300	0.7500	10791.9900	3001.6585	0.2478	0.0689
40	100.6550	0.7750	11385.4950	3278.8440	0.2614	0.0753
41	100.6800	0.8000	11979.0000	3570.8687	0.2750	0.0820

42	100.7050	0.8250	12567.0600	3877.6651	0.2885	0.0890
43	100.7300	0.8500	13155.1200	4199.1644	0.3020	0.0964
44	100.7550	0.8750	13743.1800	4535.3663	0.3155	0.1041
45	100.7800	0.9000	14331.2400	4886.2709	0.3290	0.1122
46	100.8050	0.9250	14919.3000	5251.8780	0.3425	0.1206
47	100.8300	0.9500	15507.3600	5632.1876	0.3560	0.1293
48	100.8550	0.9750	16095.4200	6027.1995	0.3695	0.1384
49	100.8800	1.0000	16683.4800	6436.9138	0.3830	0.1478
50	104.1900	4.3100	16683.4800	61659.2326	0.3830	1.4155

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| Variable storage data for node | CI-B9
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	99.4100	0.0000	4.3560	0.0000	0.0001	0.0000
2	99.4725	0.0625	276.0615	6.5645	0.0063	0.0002
3	99.5350	0.1250	547.7670	31.8290	0.0126	0.0007
4	99.5975	0.1875	819.4725	74.2711	0.0188	0.0017
5	99.6600	0.2500	1091.1780	133.7767	0.0251	0.0031
6	99.7225	0.3125	1362.8835	210.3090	0.0313	0.0048
7	99.7850	0.3750	1634.5890	303.8514	0.0375	0.0070
8	99.8475	0.4375	1906.2945	414.3953	0.0438	0.0095
9	99.9100	0.5000	2178.0000	541.9353	0.0500	0.0124
10	99.9725	0.5625	2488.3650	687.6515	0.0571	0.0158
11	100.0350	0.6250	2798.7300	852.7783	0.0643	0.0196
12	100.0975	0.6875	3109.0950	1037.3128	0.0714	0.0238
13	100.1600	0.7500	3419.4600	1241.2533	0.0785	0.0285
14	100.2225	0.8125	3729.8250	1464.5982	0.0856	0.0336
15	100.2850	0.8750	4040.1900	1707.3466	0.0927	0.0392
16	100.3475	0.9375	4350.5550	1969.4976	0.0999	0.0452
17	100.4100	1.0000	4660.9200	2251.0505	0.1070	0.0517
18	102.4700	3.0600	4660.9200	11852.5457	0.1070	0.2721

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| Variable storage data for node | POND6H
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	96.3900	0.0000	43.5600	0.0000	0.0010	0.0000
2	96.4663	0.0762	637.0650	21.5333	0.0146	0.0005
3	96.5425	0.1525	1230.5700	91.5065	0.0282	0.0021
4	96.6188	0.2288	1824.0750	207.2251	0.0419	0.0048
5	96.6950	0.3050	2417.5800	368.4079	0.0555	0.0085
6	96.7712	0.3812	3011.0850	574.9622	0.0691	0.0132
7	96.8475	0.4575	3604.5900	826.8458	0.0828	0.0190
8	96.9237	0.5337	4198.0950	1124.0359	0.0964	0.0258
9	97.0000	0.6100	4791.6000	1466.5188	0.1100	0.0337
10	97.1250	0.7350	8984.2500	2313.8945	0.2062	0.0531
11	97.2500	0.8600	13176.9000	3690.6286	0.3025	0.0847
12	97.3750	0.9850	17369.5500	5593.7588	0.3987	0.1284
13	97.5000	1.1100	21562.2000	8022.2762	0.4950	0.1842
14	97.6250	1.2350	25754.8500	10975.7144	0.5913	0.2520
15	97.7500	1.3600	29947.5000	14453.8193	0.6875	0.3318
16	97.8750	1.4850	34140.1500	18456.4372	0.7837	0.4237
17	98.0000	1.6100	38332.8000	22983.4679	0.8800	0.5276
18	98.1250	1.7350	40129.6500	27886.9424	0.9213	0.6402
19	98.2500	1.8600	41926.5000	33015.0418	0.9625	0.7579
20	98.3750	1.9850	43723.3500	38367.7647	1.0037	0.8808
21	98.5000	2.1100	45520.2000	43945.1097	1.0450	1.0088
22	98.6250	2.2350	47317.0500	49747.0756	1.0862	1.1420
23	98.7500	2.3600	49113.9000	55773.6611	1.1275	1.2804
24	98.8750	2.4850	50910.7500	62024.8655	1.1687	1.4239
25	99.0000	2.6100	52707.6000	68500.6878	1.2100	1.5726
26	99.1250	2.7350	54068.8500	75174.0351	1.2412	1.7258
27	99.2500	2.8600	55430.1000	82017.5432	1.2725	1.8829
28	99.3750	2.9850	56791.3500	89031.2118	1.3037	2.0439
29	99.5000	3.1100	58152.6000	96215.0408	1.3350	2.2088
30	99.6250	3.2350	59513.8500	103569.0298	1.3662	2.3776
31	99.7500	3.3600	60875.1000	111093.1789	1.3975	2.5503
32	99.8750	3.4850	62236.3500	118787.4877	1.4287	2.7270
33	100.0000	3.6100	63597.6000	126651.9562	1.4600	2.9075
34	100.1250	3.7350	64849.9500	134679.8009	1.4888	3.0918
35	100.2500	3.8600	66102.3000	142864.1917	1.5175	3.2797
36	100.3750	3.9850	67354.6500	151205.1287	1.5462	3.4712
37	100.5000	4.1100	68607.0000	159702.6117	1.5750	3.6663
38	100.6250	4.2350	69859.3500	168356.6405	1.6038	3.8649
39	100.7500	4.3600	71111.7000	177167.2153	1.6325	4.0672
40	100.8750	4.4850	72364.0500	186134.3358	1.6612	4.2731
41	101.0000	4.6100	73616.4000	195258.0020	1.6900	4.4825
42	101.1250	4.7350	75086.5500	204551.7850	1.7237	4.6959
43	101.2500	4.8600	76556.7000	214029.3396	1.7575	4.9134
44	101.3750	4.9850	78026.8500	223690.6658	1.7913	5.1352
45	101.5000	5.1100	79497.0000	233535.7635	1.8250	5.3612
46	101.6250	5.2350	80967.1500	243564.6326	1.8587	5.5915
47	101.7500	5.3600	82437.3000	253777.2729	1.8925	5.8259
48	101.8750	5.4850	83907.4500	264173.6845	1.9262	6.0646
49	102.0000	5.6100	85377.6000	274753.8671	1.9600	6.3075
50	102.1250	5.7350	87501.1500	285558.5173	2.0088	6.5555
51	102.2500	5.8600	89624.7000	296628.6177	2.0575	6.8097
52	102.3750	5.9850	91748.2500	307964.1680	2.1063	7.0699
53	102.5000	6.1100	93871.8000	319565.1681	2.1550	7.3362
54	102.6250	6.2350	95995.3500	331431.6176	2.2037	7.6086
55	102.7500	6.3600	98118.9000	343563.5162	2.2525	7.8871
56	102.8750	6.4850	100242.4500	355960.8638	2.3013	8.1717
57	103.0000	6.6100	102366.0000	368623.6600	2.3500	8.4624

58	103.0625	6.6725	103455.0000	375055.5363	2.3750	8.6101
59	103.1250	6.7350	104544.0000	381555.4753	2.4000	8.7593
60	103.1875	6.7975	105633.0000	388123.4772	2.4250	8.9101
61	103.2500	6.8600	106722.0000	394759.5418	2.4500	9.0624
62	103.3125	6.9225	107811.0000	401463.6693	2.4750	9.2163
63	103.3750	6.9850	108900.0000	408235.8596	2.5000	9.3718
64	103.4375	7.0475	109989.0000	415076.1126	2.5250	9.5288
65	103.5000	7.1100	111078.0000	421984.4284	2.5500	9.6874

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| Variable storage data for node | CI-G3
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	96.5500	0.0000	4.3560	0.0000	0.0001	0.0000
2	96.5750	0.0250	150.8265	1.5068	0.0035	0.0000
3	96.6000	0.0500	297.2970	7.0058	0.0068	0.0002
4	96.6250	0.0750	443.7675	16.2082	0.0102	0.0004
5	96.6500	0.1000	590.2380	29.0898	0.0135	0.0007
6	96.6750	0.1250	736.7085	45.6428	0.0169	0.0010
7	96.7000	0.1500	883.1790	65.8638	0.0203	0.0015
8	96.7250	0.1750	1029.6495	89.7507	0.0236	0.0021
9	96.7500	0.2000	1176.1200	117.3026	0.0270	0.0027
10	96.7750	0.2250	1475.5950	150.3783	0.0339	0.0035
11	96.8000	0.2500	1775.0700	190.9540	0.0408	0.0044
12	96.8250	0.2750	2074.5450	239.0256	0.0476	0.0055
13	96.8500	0.3000	2374.0200	294.5906	0.0545	0.0068
14	96.8750	0.3250	2673.4950	357.6475	0.0614	0.0082
15	96.9000	0.3500	2972.9700	428.1952	0.0683	0.0098
16	96.9250	0.3750	3272.4450	506.2330	0.0751	0.0116
17	96.9500	0.4000	3571.9200	591.7602	0.0820	0.0136
18	96.9625	0.4125	3773.3850	637.6626	0.0866	0.0146
19	96.9750	0.4250	3974.8500	686.0836	0.0912	0.0158
20	96.9875	0.4375	4176.3150	737.0232	0.0959	0.0169
21	97.0000	0.4500	4377.7800	790.4814	0.1005	0.0181
22	97.0125	0.4625	4579.2450	846.4581	0.1051	0.0194
23	97.0250	0.4750	4780.7100	904.9533	0.1098	0.0208
24	97.0375	0.4875	4982.1750	965.9670	0.1144	0.0222
25	97.0500	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	97.0625	0.5125	5439.5550	1095.8877	0.1249	0.0252
27	97.0750	0.5250	5695.4700	1165.4755	0.1308	0.0268
28	97.0875	0.5375	5951.3850	1238.2625	0.1366	0.0284
29	97.1000	0.5500	6207.3000	1314.2486	0.1425	0.0302
30	97.1125	0.5625	6463.2150	1393.4340	0.1484	0.0320
31	97.1250	0.5750	6719.1300	1475.8184	0.1542	0.0339
32	97.1375	0.5875	6975.0450	1561.4020	0.1601	0.0358
33	97.1500	0.6000	7230.9600	1650.1848	0.1660	0.0379
34	97.1750	0.6250	7824.4650	1838.3288	0.1796	0.0422
35	97.2000	0.6500	8417.9700	2041.3141	0.1932	0.0469
36	97.2250	0.6750	9011.4750	2259.1400	0.2069	0.0519
37	97.2500	0.7000	9604.9800	2491.8063	0.2205	0.0572
38	97.2750	0.7250	10198.4850	2739.3125	0.2341	0.0629
39	97.3000	0.7500	10791.9900	3001.6585	0.2478	0.0689
40	97.3250	0.7750	11385.4950	3278.8440	0.2614	0.0753
41	97.3500	0.8000	11979.0000	3570.8687	0.2750	0.0820
42	97.3750	0.8250	12567.0600	3877.6651	0.2885	0.0890
43	97.4000	0.8500	13155.1200	4199.1644	0.3020	0.0964
44	97.4250	0.8750	13743.1800	4535.3663	0.3155	0.1041
45	97.4500	0.9000	14331.2400	4886.2709	0.3290	0.1122
46	97.4750	0.9250	14919.3000	5251.8780	0.3425	0.1206
47	97.5000	0.9500	15507.3600	5632.1876	0.3560	0.1293
48	97.5250	0.9750	16095.4200	6027.1995	0.3695	0.1384
49	97.5500	1.0000	16683.4800	6436.9138	0.3830	0.1478
50	101.9200	5.3700	16683.4800	79343.7214	0.3830	1.8215

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| Variable storage data for node | CI-F2
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	97.1700	0.0000	4.3560	0.0000	0.0001	0.0000
2	97.1950	0.0250	150.8265	1.5068	0.0035	0.0000
3	97.2200	0.0500	297.2970	7.0058	0.0068	0.0002
4	97.2450	0.0750	443.7675	16.2082	0.0102	0.0004
5	97.2700	0.1000	590.2380	29.0898	0.0135	0.0007
6	97.2950	0.1250	736.7085	45.6428	0.0169	0.0010
7	97.3200	0.1500	883.1790	65.8638	0.0203	0.0015
8	97.3450	0.1750	1029.6495	89.7507	0.0236	0.0021
9	97.3700	0.2000	1176.1200	117.3026	0.0270	0.0027
10	97.3950	0.2250	1475.5950	150.3783	0.0339	0.0035
11	97.4200	0.2500	1775.0700	190.9540	0.0408	0.0044
12	97.4450	0.2750	2074.5450	239.0256	0.0476	0.0055
13	97.4700	0.3000	2374.0200	294.5906	0.0545	0.0068
14	97.4950	0.3250	2673.4950	357.6475	0.0614	0.0082
15	97.5200	0.3500	2972.9700	428.1952	0.0683	0.0098
16	97.5450	0.3750	3272.4450	506.2330	0.0751	0.0116
17	97.5700	0.4000	3571.9200	591.7602	0.0820	0.0136
18	97.5825	0.4125	3773.3850	637.6626	0.0866	0.0146
19	97.5950	0.4250	3974.8500	686.0836	0.0912	0.0158
20	97.6075	0.4375	4176.3150	737.0232	0.0959	0.0169
21	97.6200	0.4500	4377.7800	790.4814	0.1005	0.0181
22	97.6325	0.4625	4579.2450	846.4581	0.1051	0.0194
23	97.6450	0.4750	4780.7100	904.9533	0.1098	0.0208
24	97.6575	0.4875	4982.1750	965.9670	0.1144	0.0222
25	97.6700	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	97.6825	0.5125	5439.5550	1095.8877	0.1249	0.0252

27	97.6950	0.5250	5695.4700	1165.4755	0.1308	0.0268
28	97.7075	0.5375	5951.3850	1238.2625	0.1366	0.0284
29	97.7200	0.5500	6207.3000	1314.2486	0.1425	0.0302
30	97.7325	0.5625	6463.2150	1393.4340	0.1484	0.0320
31	97.7450	0.5750	6719.1300	1475.8184	0.1542	0.0339
32	97.7575	0.5875	6975.0450	1561.4020	0.1601	0.0358
33	97.7700	0.6000	7230.9600	1650.1848	0.1660	0.0379
34	97.7950	0.6250	7824.4650	1838.3288	0.1796	0.0422
35	97.8200	0.6500	8417.9700	2041.3141	0.1932	0.0469
36	97.8450	0.6750	9011.4750	2259.1400	0.2069	0.0519
37	97.8700	0.7000	9604.9800	2491.8063	0.2205	0.0572
38	97.8950	0.7250	10198.4850	2739.3125	0.2341	0.0629
39	97.9200	0.7500	10791.9900	3001.6585	0.2478	0.0689
40	97.9450	0.7750	11385.4950	3278.8440	0.2614	0.0753
41	97.9700	0.8000	11979.0000	3570.8687	0.2750	0.0820
42	97.9950	0.8250	12567.0600	3877.6651	0.2885	0.0890
43	98.0200	0.8500	13155.1200	4199.1644	0.3020	0.0964
44	98.0450	0.8750	13743.1800	4535.3663	0.3155	0.1041
45	98.0700	0.9000	14331.2400	4886.2709	0.3290	0.1122
46	98.0950	0.9250	14919.3000	5251.8780	0.3425	0.1206
47	98.1200	0.9500	15507.3600	5632.1876	0.3560	0.1293
48	98.1450	0.9750	16095.4200	6027.1995	0.3695	0.1384
49	98.1700	1.0000	16683.4800	6436.9138	0.3830	0.1478
50	102.6900	5.5200	16683.4800	81846.2434	0.3830	1.8789

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| Variable storage data for node | CI-A7
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	96.3100	0.0000	4.3560	0.0000	0.0001	0.0000
2	96.3350	0.0250	150.8265	1.5068	0.0035	0.0000
3	96.3600	0.0500	297.2970	7.0058	0.0068	0.0002
4	96.3850	0.0750	443.7675	16.2082	0.0102	0.0004
5	96.4100	0.1000	590.2380	29.0898	0.0135	0.0007
6	96.4350	0.1250	736.7085	45.6428	0.0169	0.0010
7	96.4600	0.1500	883.1790	65.8638	0.0203	0.0015
8	96.4850	0.1750	1029.6495	89.7507	0.0236	0.0021
9	96.5100	0.2000	1176.1200	117.3026	0.0270	0.0027
10	96.5350	0.2250	1475.5950	150.3783	0.0339	0.0035
11	96.5600	0.2500	1775.0700	190.9540	0.0408	0.0044
12	96.5850	0.2750	2074.5450	239.0256	0.0476	0.0055
13	96.6100	0.3000	2374.0200	294.5906	0.0545	0.0068
14	96.6350	0.3250	2673.4950	357.6475	0.0614	0.0082
15	96.6600	0.3500	2972.9700	428.1952	0.0683	0.0098
16	96.6850	0.3750	3272.4450	506.2330	0.0751	0.0116
17	96.7100	0.4000	3571.9200	591.7602	0.0820	0.0136
18	96.7225	0.4125	3773.3850	637.6626	0.0866	0.0146
19	96.7350	0.4250	3974.8500	686.0836	0.0912	0.0158
20	96.7475	0.4375	4176.3150	737.0232	0.0959	0.0169
21	96.7600	0.4500	4377.7800	790.4814	0.1005	0.0181
22	96.7725	0.4625	4579.2450	846.4581	0.1051	0.0194
23	96.7850	0.4750	4780.7100	904.9533	0.1098	0.0208
24	96.7975	0.4875	4982.1750	965.9670	0.1144	0.0222
25	96.8100	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	96.8225	0.5125	5439.5550	1095.8877	0.1249	0.0252
27	96.8350	0.5250	5695.4700	1165.4755	0.1308	0.0268
28	96.8475	0.5375	5951.3850	1238.2625	0.1366	0.0284
29	96.8600	0.5500	6207.3000	1314.2486	0.1425	0.0302
30	96.8725	0.5625	6463.2150	1393.4340	0.1484	0.0320
31	96.8850	0.5750	6719.1300	1475.8184	0.1542	0.0339
32	96.8975	0.5875	6975.0450	1561.4020	0.1601	0.0358
33	96.9100	0.6000	7230.9600	1650.1848	0.1660	0.0379
34	96.9350	0.6250	7824.4650	1838.3288	0.1796	0.0422
35	96.9600	0.6500	8417.9700	2041.3141	0.1932	0.0469
36	96.9850	0.6750	9011.4750	2259.1400	0.2069	0.0519
37	97.0100	0.7000	9604.9800	2491.8063	0.2205	0.0572
38	97.0350	0.7250	10198.4850	2739.3125	0.2341	0.0629
39	97.0600	0.7500	10791.9900	3001.6585	0.2478	0.0689
40	97.0850	0.7750	11385.4950	3278.8440	0.2614	0.0753
41	97.1100	0.8000	11979.0000	3570.8687	0.2750	0.0820
42	97.1350	0.8250	12567.0600	3877.6651	0.2885	0.0890
43	97.1600	0.8500	13155.1200	4199.1644	0.3020	0.0964
44	97.1850	0.8750	13743.1800	4535.3663	0.3155	0.1041
45	97.2100	0.9000	14331.2400	4886.2709	0.3290	0.1122
46	97.2350	0.9250	14919.3000	5251.8780	0.3425	0.1206
47	97.2600	0.9500	15507.3600	5632.1876	0.3560	0.1293
48	97.2850	0.9750	16095.4200	6027.1995	0.3695	0.1384
49	97.3100	1.0000	16683.4800	6436.9138	0.3830	0.1478
50	101.2300	4.9200	16683.4800	71836.1554	0.3830	1.6491

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| Variable storage data for node | CI-R11
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	97.3400	0.0000	4.3560	0.0000	0.0001	0.0000
2	97.3650	0.0250	150.8265	1.5068	0.0035	0.0000
3	97.3900	0.0500	297.2970	7.0058	0.0068	0.0002
4	97.4150	0.0750	443.7675	16.2082	0.0102	0.0004
5	97.4400	0.1000	590.2380	29.0898	0.0135	0.0007
6	97.4650	0.1250	736.7085	45.6428	0.0169	0.0010
7	97.4900	0.1500	883.1790	65.8638	0.0203	0.0015
8	97.5150	0.1750	1029.6495	89.7507	0.0236	0.0021
9	97.5400	0.2000	1176.1200	117.3026	0.0270	0.0027
10	97.5650	0.2250	1475.5950	150.3783	0.0339	0.0035

11	97.5900	0.2500	1775.0700	190.9540	0.0408	0.0044
12	97.6150	0.2750	2074.5450	239.0256	0.0476	0.0055
13	97.6400	0.3000	2374.0200	294.5906	0.0545	0.0068
14	97.6650	0.3250	2673.4950	357.6475	0.0614	0.0082
15	97.6900	0.3500	2972.9700	428.1952	0.0683	0.0098
16	97.7150	0.3750	3272.4450	506.2330	0.0751	0.0116
17	97.7400	0.4000	3571.9200	591.7602	0.0820	0.0136
18	97.7525	0.4125	3773.3850	637.6626	0.0866	0.0146
19	97.7650	0.4250	3974.8500	686.0836	0.0912	0.0158
20	97.7775	0.4375	4176.3150	737.0232	0.0959	0.0169
21	97.7900	0.4500	4377.7800	790.4814	0.1005	0.0181
22	97.8025	0.4625	4579.2450	846.4581	0.1051	0.0194
23	97.8150	0.4750	4780.7100	904.9533	0.1098	0.0208
24	97.8275	0.4875	4982.1750	965.9670	0.1144	0.0222
25	97.8400	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	97.8525	0.5125	5439.5550	1095.8877	0.1249	0.0252
27	97.8650	0.5250	5695.4700	1165.4755	0.1308	0.0268
28	97.8775	0.5375	5951.3850	1238.2625	0.1366	0.0284
29	97.8900	0.5500	6207.3000	1314.2486	0.1425	0.0302
30	97.9025	0.5625	6463.2150	1393.4340	0.1484	0.0320
31	97.9150	0.5750	6719.1300	1475.8184	0.1542	0.0339
32	97.9275	0.5875	6975.0450	1561.4020	0.1601	0.0358
33	97.9400	0.6000	7230.9600	1650.1848	0.1660	0.0379
34	97.9650	0.6250	7824.4650	1838.3288	0.1796	0.0422
35	97.9900	0.6500	8417.9700	2041.3141	0.1932	0.0469
36	98.0150	0.6750	9011.4750	2259.1400	0.2069	0.0519
37	98.0400	0.7000	9604.9800	2491.8063	0.2205	0.0572
38	98.0650	0.7250	10198.4850	2739.3125	0.2341	0.0629
39	98.0900	0.7500	10791.9900	3001.6585	0.2478	0.0689
40	98.1150	0.7750	11385.4950	3278.8440	0.2614	0.0753
41	98.1400	0.8000	11979.0000	3570.8687	0.2750	0.0820
42	98.1650	0.8250	12567.0600	3877.6651	0.2885	0.0890
43	98.1900	0.8500	13155.1200	4199.1644	0.3020	0.0964
44	98.2150	0.8750	13743.1800	4535.3663	0.3155	0.1041
45	98.2400	0.9000	14331.2400	4886.2709	0.3290	0.1122
46	98.2650	0.9250	14919.3000	5251.8780	0.3425	0.1206
47	98.2900	0.9500	15507.3600	5632.1876	0.3560	0.1293
48	98.3150	0.9750	16095.4200	6027.1995	0.3695	0.1384
49	98.3400	1.0000	16683.4800	6436.9138	0.3830	0.1478
50	101.9300	4.5900	16683.4800	66330.6070	0.3830	1.5227

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| Variable storage data for node | BW-D6
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	97.8000	0.0000	4.3560	0.0000	0.0001	0.0000
2	97.8250	0.0250	150.8265	1.5068	0.0035	0.0000
3	97.8500	0.0500	297.2970	7.0058	0.0068	0.0002
4	97.8750	0.0750	443.7675	16.2082	0.0102	0.0004
5	97.9000	0.1000	590.2380	29.0898	0.0135	0.0007
6	97.9250	0.1250	736.7085	45.6428	0.0169	0.0010
7	97.9500	0.1500	883.1790	65.8638	0.0203	0.0015
8	97.9750	0.1750	1029.6495	89.7507	0.0236	0.0021
9	98.0000	0.2000	1176.1200	117.3026	0.0270	0.0027
10	98.0250	0.2250	1475.5950	150.3783	0.0339	0.0035
11	98.0500	0.2500	1775.0700	190.9540	0.0408	0.0044
12	98.0750	0.2750	2074.5450	239.0256	0.0476	0.0055
13	98.1000	0.3000	2374.0200	294.5906	0.0545	0.0068
14	98.1250	0.3250	2673.4950	357.6475	0.0614	0.0082
15	98.1500	0.3500	2972.9700	428.1952	0.0683	0.0098
16	98.1750	0.3750	3272.4450	506.2330	0.0751	0.0116
17	98.2000	0.4000	3571.9200	591.7602	0.0820	0.0136
18	98.2125	0.4125	3773.3850	637.6626	0.0866	0.0146
19	98.2250	0.4250	3974.8500	686.0836	0.0912	0.0158
20	98.2375	0.4375	4176.3150	737.0232	0.0959	0.0169
21	98.2500	0.4500	4377.7800	790.4814	0.1005	0.0181
22	98.2625	0.4625	4579.2450	846.4581	0.1051	0.0194
23	98.2750	0.4750	4780.7100	904.9533	0.1098	0.0208
24	98.2875	0.4875	4982.1750	965.9670	0.1144	0.0222
25	98.3000	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	98.3125	0.5125	5439.5550	1095.8877	0.1249	0.0252
27	98.3250	0.5250	5695.4700	1165.4755	0.1308	0.0268
28	98.3375	0.5375	5951.3850	1238.2625	0.1366	0.0284
29	98.3500	0.5500	6207.3000	1314.2486	0.1425	0.0302
30	98.3625	0.5625	6463.2150	1393.4340	0.1484	0.0320
31	98.3750	0.5750	6719.1300	1475.8184	0.1542	0.0339
32	98.3875	0.5875	6975.0450	1561.4020	0.1601	0.0358
33	98.4000	0.6000	7230.9600	1650.1848	0.1660	0.0379
34	98.4250	0.6250	7824.4650	1838.3288	0.1796	0.0422
35	98.4500	0.6500	8417.9700	2041.3141	0.1932	0.0469
36	98.4750	0.6750	9011.4750	2259.1400	0.2069	0.0519
37	98.5000	0.7000	9604.9800	2491.8063	0.2205	0.0572
38	98.5250	0.7250	10198.4850	2739.3125	0.2341	0.0629
39	98.5500	0.7500	10791.9900	3001.6585	0.2478	0.0689
40	98.5750	0.7750	11385.4950	3278.8440	0.2614	0.0753
41	98.6000	0.8000	11979.0000	3570.8687	0.2750	0.0820
42	98.6250	0.8250	12567.0600	3877.6651	0.2885	0.0890
43	98.6500	0.8500	13155.1200	4199.1644	0.3020	0.0964
44	98.6750	0.8750	13743.1800	4535.3663	0.3155	0.1041
45	98.7000	0.9000	14331.2400	4886.2709	0.3290	0.1122
46	98.7250	0.9250	14919.3000	5251.8780	0.3425	0.1206
47	98.7500	0.9500	15507.3600	5632.1876	0.3560	0.1293
48	98.7750	0.9750	16095.4200	6027.1995	0.3695	0.1384
49	98.8000	1.0000	16683.4800	6436.9138	0.3830	0.1478
50	102.5300	4.7300	16683.4800	68666.2942	0.3830	1.5764

==================================
| Variable storage data for node | POND6F
==================================

Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	97.6000	0.0000	43.5600	0.0000	0.0010	0.0000
2	97.6500	0.0500	343.0350	8.4806	0.0079	0.0002
3	97.7000	0.1000	642.5100	32.7309	0.0147	0.0008
4	97.7500	0.1500	941.9850	72.1052	0.0216	0.0017
5	97.8000	0.2000	1241.4600	126.5194	0.0285	0.0029
6	97.8500	0.2500	1540.9350	195.9446	0.0354	0.0045
7	97.9000	0.3000	1840.4100	280.3675	0.0423	0.0064
8	97.9500	0.3500	2139.8850	379.7808	0.0491	0.0087
9	98.0000	0.4000	2439.3600	494.1803	0.0560	0.0113
10	98.1250	0.5250	4372.3350	914.0775	0.1004	0.0210
11	98.2500	0.6500	6305.3100	1577.7549	0.1447	0.0362
12	98.3750	0.7750	8238.2850	2484.0415	0.1891	0.0570
13	98.5000	0.9000	10171.2600	3632.5180	0.2335	0.0834
14	98.6250	1.0250	12104.2350	5022.9859	0.2779	0.1153
15	98.7500	1.1500	14037.2100	6655.3353	0.3222	0.1528
16	98.8750	1.2750	15970.1850	8529.4991	0.3666	0.1958
17	99.0000	1.4000	17903.1600	10645.4333	0.4110	0.2444
18	99.1250	1.5250	18681.7950	12931.8203	0.4289	0.2969
19	99.2500	1.6500	19460.4300	15315.5438	0.4467	0.3516
20	99.3750	1.7750	20239.0650	17796.6031	0.4646	0.4086
21	99.5000	1.9000	21017.7000	20374.9978	0.4825	0.4677
22	99.6250	2.0250	21796.3350	23050.7275	0.5004	0.5292
23	99.7500	2.1500	22574.9700	25823.7917	0.5182	0.5928
24	99.8750	2.2750	23353.6050	28694.1902	0.5361	0.6587
25	100.0000	2.4000	24132.2400	31661.9225	0.5540	0.7269
26	100.1250	2.5250	24633.1800	34709.7076	0.5655	0.7968
27	100.2500	2.6500	25134.1200	37820.1113	0.5770	0.8682
28	100.3750	2.7750	25635.0600	40993.1336	0.5885	0.9411
29	100.5000	2.9000	26136.0000	44228.7744	0.6000	1.0154
30	100.6250	3.0250	26636.9400	47527.0336	0.6115	1.0911
31	100.7500	3.1500	27137.8800	50887.9112	0.6230	1.1682
32	100.8750	3.2750	27638.8200	54311.4072	0.6345	1.2468
33	101.0000	3.4000	28139.7600	57797.5216	0.6460	1.3268
34	101.1250	3.5250	28477.3500	61336.0700	0.6538	1.4081
35	101.2500	3.6500	28814.9400	64916.8174	0.6615	1.4903
36	101.3750	3.7750	29152.5300	68539.7638	0.6692	1.5735
37	101.5000	3.9000	29490.1200	72204.9092	0.6770	1.6576
38	101.6250	4.0250	29827.7100	75912.2536	0.6847	1.7427
39	101.7500	4.1500	30165.3000	79661.7969	0.6925	1.8288
40	101.8750	4.2750	30502.8900	83453.5392	0.7002	1.9158
41	102.0000	4.4000	30840.4800	87287.4805	0.7080	2.0038
42	102.1250	4.5250	31194.4050	91164.6398	0.7161	2.0929
43	102.2500	4.6500	31548.3300	95086.0399	0.7242	2.1829
44	102.3750	4.7750	31902.2550	99051.6809	0.7324	2.2739
45	102.5000	4.9000	32256.1800	103061.5628	0.7405	2.3660
46	102.6250	5.0250	32610.1050	107115.6855	0.7486	2.4590
47	102.7500	5.1500	32964.0300	111214.0490	0.7567	2.5531
48	102.8750	5.2750	33317.9550	115356.6534	0.7649	2.6482
49	103.0000	5.4000	33671.8800	119543.4986	0.7730	2.7443
50	103.0625	5.4625	33851.5650	121653.6037	0.7771	2.7928
51	103.1250	5.5250	34031.2500	123774.9392	0.7812	2.8415
52	103.1875	5.5875	34210.9350	125907.5051	0.7854	2.8904
53	103.2500	5.6500	34390.6200	128051.3012	0.7895	2.9397
54	103.3125	5.7125	34570.3050	130206.3277	0.7936	2.9891
55	103.3750	5.7750	34749.9900	132372.5845	0.7978	3.0389
56	103.4375	5.8375	34929.6750	134550.0716	0.8019	3.0888
57	103.5000	5.9000	35109.3600	136738.7890	0.8060	3.1391
58	103.5000	5.9000	35109.3600	136738.7890	0.8060	3.1391

==
| FREE OUTFALL DATA (DATA GROUP I1) |
| BOUNDARY CONDITION ON DATA GROUP J1 |
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Outfall at Junction....DI-L25 has boundary condition number... 1
Outfall at Junction....DI-R13 has boundary condition number... 2

===> Warning !! Outfall Junction DI-L25 has two or more connecting conduits.

===> Warning !! Outfall Junction DI-R13 has two or more connecting conduits.

==
| INTERNAL CONNECTIVITY INFORMATION |
==

CONDUIT	JUNCTION	JUNCTION
FREE # 1	DI-L25	BOUNDARY
FREE # 2	DI-R13	BOUNDARY

==
| Boundary Condition Information |
| Data Groups J1-J4 |
==

BC NUMBER.. 1 Control water surface elevation is.. 0.00 feet.
BC NUMBER.. 2 Control water surface elevation is.. 0.00 feet.

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| XP Note Field Summary |

Table E9 - JUNCTION SUMMARY STATISTICS

The Maximum area is only the area of the node, it does not include the area of the surrounding conduits

Junction Name	Ground Elevation feet	Uppermost PipeCrown Elevation feet	Maximum Junction Elevation feet	Time of Occurence Hr.	Time of Occurence Min.	Feet of Surcharge at Max Elevation	Freeboard of node feet	Maximum Junction Area ft^2	Maximum Gutter Depth feet	Maximum Gutter Width feet	Maximum Gutter Velocity ft/s
BW-J3	103.1800	100.6600	102.4097	16	54	1.7497	0.7703	12.5660	0.0000	0.0000	0.0000
CI-C7	103.4000	101.0000	102.4203	16	53	1.4203	0.9797	12.5660	0.0000	0.0000	0.0000
SD-1A	106.3000	106.3000	103.7909	16	52	0.0000	2.5091	12.5660	0.0000	0.0000	0.0000
SD-1	105.1240	105.1240	103.8389	16	50	0.0000	1.2851	12.5660	0.0000	0.0000	0.0000
CI-A12	105.1100	102.5300	103.8725	16	48	1.3425	1.2375	12.5660	0.0000	0.0000	0.0000
CI-B12	104.8800	102.5200	104.3824	16	41	1.8624	0.4976	12.5660	0.0000	0.0000	0.0000
DI-A10	104.0000	102.8400	103.9007	16	46	1.0607	0.0993	12.5660	0.0000	0.0000	0.0000
OFF-B12	104.8800	102.5300	104.5237	16	38	1.9937	0.3563	12.5660	0.0000	0.0000	0.0000
DI-B10	104.0000	102.7000	104.3912	16	41	1.6912	0.0000	7394.1042	0.0000	0.0000	0.0000
BW-C4	103.3000	99.9900	103.3454	17	0	3.3554	0.0000	270.3024	0.0000	0.0000	0.0000
BW-C3	103.8220	100.4300	103.7549	16	48	3.3249	0.0671	12.5660	0.0000	0.0000	0.0000
BW-C5	104.1200	99.9900	103.3184	16	58	3.3284	0.8016	12.5660	0.0000	0.0000	0.0000
B-1	102.9000	100.5300	103.7001	16	53	3.1701	0.0000	11982.105	0.0000	0.0000	0.0000
BW-C1	105.0400	100.6600	104.1408	16	30	3.4808	0.8992	12.5660	0.0000	0.0000	0.0000
BW-D4	102.1200	100.4900	103.4271	16	57	2.9371	0.0000	16683.480	0.0000	0.0000	0.0000
BW-D3	102.8600	100.2600	103.4604	16	51	3.2004	0.0000	9113.8291	0.0000	0.0000	0.0000
BW-D1	104.4100	101.4000	104.0660	16	30	2.6660	0.3440	12.5660	0.0000	0.0000	0.0000
A-1	104.1900	101.8800	103.3548	17	0	1.4748	0.8352	12.5660	0.0000	0.0000	0.0000
SD-2	106.0000	103.8100	103.7896	16	51	0.0000	2.2104	12.5660	0.0000	0.0000	0.0000
BW-J1	103.3100	100.3000	103.6265	16	53	3.3265	0.0000	6861.2960	0.0000	0.0000	0.0000
CI-B9	102.4700	101.4100	103.3540	17	0	1.9440	0.0000	4084.8413	0.0000	0.0000	0.0000
B-1A	102.9000	100.6800	103.7091	16	54	3.0291	0.0000	11229.772	0.0000	0.0000	0.0000
POND6H	103.5000	100.4900	103.3145	16	58	2.8245	0.1855	107846.18	0.0000	0.0000	0.0000
DI-L25	102.8400	102.3000	97.3100	16	3	0.0000	5.5300	12.5660	0.0000	0.0000	0.0000
CI-G3	101.9200	98.0500	97.7372	16	0	0.0000	4.1828	12.5660	0.0000	0.0000	0.0000
DI-L24	103.0000	102.7100	100.2845	16	47	0.0000	2.7155	12.5660	0.0000	0.0000	0.0000
CI-F2	102.6900	98.6700	100.3279	16	39	1.6579	2.3621	12.5660	0.0000	0.0000	0.0000
MH-L23	104.7300	99.1200	101.4701	16	51	2.3501	3.2599	12.5660	0.0000	0.0000	0.0000
CI-E5	103.8000	99.4000	101.4895	16	50	2.0895	2.3105	12.5660	0.0000	0.0000	0.0000
MH-L22	104.8100	99.9200	101.8488	16	52	1.9288	2.9612	12.5660	0.0000	0.0000	0.0000
CI-D9	103.5300	99.5000	101.8494	16	52	2.3494	1.6806	12.5660	0.0000	0.0000	0.0000
DI-R13	102.1500	101.6300	97.5322	16	15	0.0000	4.6178	12.5660	0.0000	0.0000	0.0000
CI-A7	101.2300	98.3100	97.5473	16	15	0.0000	3.6827	12.5660	0.0000	0.0000	0.0000
DI-R12	102.6000	102.6000	98.5984	16	15	0.0000	4.0016	12.5660	0.0000	0.0000	0.0000
CI-R11	101.9300	99.5800	98.6792	16	15	0.0000	3.2508	12.5660	0.0000	0.0000	0.0000
L-21	104.0000	99.4100	102.2091	16	53	2.7991	1.7909	12.5660	0.0000	0.0000	0.0000
SD-3	103.1500	100.5000	103.6851	16	53	3.1851	0.0000	8537.7807	0.0000	0.0000	0.0000
BW-D6	102.5300	99.8000	99.1610	16	15	0.0000	3.3690	12.5660	0.0000	0.0000	0.0000
A-2	102.3440	99.9900	103.3440	17	1	3.3540	0.0000	13591.459	0.0000	0.0000	0.0000
POND6F	103.5000	101.0900	103.3419	17	0	2.2519	0.1581	34654.869	0.0000	0.0000	0.0000

Table E10 - CONDUIT SUMMARY STATISTICS

Note: The peak flow may be less than the design flow and the conduit may still surcharge because of the downstream boundary conditions.

* denotes an open conduit that has been overtopped this is a potential source of severe errors

Conduit Name	Design Flow (cfs)	Conduit Design Velocity (ft/s)	Maximum Vertical Depth (in)	Maximum Computed Flow (cfs)	Time of Occurence Hr.	Time of Occurence Min.	Maximum Computed Velocity (ft/s)	Time of Occurence Hr.	Time of Occurence Min.	Ratio of Max. to Design Flow	Maximum Water Elev at Pipe Ends Upstream (ft)	Maximum Water Elev at Pipe Ends Dwnstrm (ft)	Ratio d/D US	Ratio d/D DS
L-POND6F	217.7977	9.0749	48.0000	185.9260	17	5	7.7207	17	6	0.8537	102.4096	102.2091	1.680	1.700
L_L-C7	47.2462	5.9058	24.0000	16.4977	16	59	4.7124	15	57	0.3492	102.4203	102.4096	1.710	1.875
L_L-SD1	350.9682	2.6821	56.4480	88.7982	16	8	2.4240	16	2	0.2530	103.8389	103.7909	0.727	0.806
L_L-A12	24.5086	3.0636	24.0000	28.0939	16	15	3.5050	16	15	1.1463	103.8725	103.8389	1.671	1.709
L_L-B12	22.2452	2.7807	24.0000	64.8033	16	15	8.0777	16	15	2.9131	104.3825	103.8389	1.936	1.709
L_L-A10	21.9874	2.7484	24.0000	13.2340	16	0	1.6525	16	0	0.6019	103.9007	103.8725	1.530	1.671
L_L-OFFB12	19.8577	2.4822	24.0000	58.8855	16	15	7.3330	16	15	2.9654	104.5237	104.3824	1.997	1.936
L_L-B10	16.9328	2.1166	24.0000	4.9337	17	0	1.0407	14	45	0.2914	104.3912	104.3824	1.846	1.931
L_L-B1	80.4561	3.8312	36.0000	104.3303	16	2	4.9571	16	2	1.2967	103.6851	103.6265	2.108	2.109
L_L-C2	26.7968	2.9774	36.0000	44.3367	16	15	4.9033	16	15	1.6546	104.1408	103.7549	2.160	2.108
L_L-D2	45.5649	5.0628	36.0000	45.3295	16	15	5.0166	16	15	0.9948	104.0660	103.4604	1.889	2.067
L-SD2	81.1713	3.8653	36.0000	82.3192	16	2	3.9110	16	2	1.0141	103.7896	103.6851	2.093	2.108
L_L-D4	51.5922	8.5987	24.0000	31.7308	16	7	5.2637	16	7	0.6150	103.4271	103.3145	2.469	3.027
L_L-B9	18.9474	6.0312	24.0000	3.0462	16	0	2.8240	15	55	0.1608	103.3548	103.3540	1.737	1.972
Link48	21.9040	6.9723	24.0000	10.0519	16	15	4.3590	15	35	0.4589	103.7091	103.7001	2.515	2.585
L-POND	39.7411	3.3118	36.0000	69.8404	16	15	5.7990	16	15	1.7574	103.4604	103.3145	2.067	2.052
L_L-G3	4.6139	2.6109	18.0000	6.5298	16	0	4.7341	16	0	1.4153	97.7372	97.4479	0.791	0.659
L_L-F2	4.6170	2.6127	18.0000	9.0424	15	59	5.1025	15	59	1.9585	100.3279	100.2845	2.105	2.136
L_L-L23	125.9800	5.2492	48.0000	188.0240	17	1	7.8145	17	1	1.4925	101.4701	100.2845	1.588	1.426
L_L-E5	5.7617	3.2604	18.0000	4.8246	16	0	3.8200	15	51	0.8374	101.4895	101.4701	2.393	2.567
L_L-L22	269.3143	11.2214	48.0000	186.8765	17	3	7.7663	17	3	0.6939	101.8488	101.4701	1.482	1.588
L_L-D9	20.3728	4.1503	30.0000	4.8876	15	59	2.5902	15	36	0.2399	101.8494	101.8488	1.940	2.032
L_L-L21	114.8988	4.7875	48.0000	185.9269	17	5	7.7213	17	6	1.6182	102.2091	101.8488	1.700	1.645
L_L-A7	18.4732	3.0789	24.0000	6.4002	16	0	2.1305	15	29	0.3465	97.5473	97.5322	0.619	0.656
L_L-R11	16.7836	2.7973	24.0000	13.2359	16	15	3.3067	16	15	0.7886	98.6792	98.5984	0.670	0.664

L-CIB9	29.2624	3.6578	24.0000	10.1817	16	7	2.9408	15	48	0.3479	103.3540	103.3419	1.972	2.126
L-B1	16.9012	2.8169	24.0000	22.6573	16	14	4.7467	15	35	1.3406	103.7001	103.6851	2.585	2.593
Link55	78.1588	3.7218	36.0000	160.5286	16	2	7.6302	16	2	2.0539	103.6265	103.3145	2.109	2.055
Link56	12.8553	4.0920	24.0000	3.3314	16	15	1.9469	15	28	0.2591	103.3184	103.3145	2.664	2.817
Link57	15.9965	5.0918	24.0000	5.8801	16	0	2.6805	15	33	0.3676	103.3454	103.3419	2.678	2.771
Link58	98.2214	4.0926	48.0000	179.3969	17	15	7.4518	17	15	1.8265	103.3145	102.4096	1.731	1.542
L-POND6H	39.3901	3.2825	36.0000	30.9186	17	57	2.5700	17	57	0.7849	103.3419	103.3145	1.914	1.942
L-BWD6	7.2315	2.3019	24.0000	7.0239	16	15	3.4315	16	15	0.9713	99.1610	98.6792	0.681	0.550
L-A2	15.9965	5.0918	24.0000	11.9519	17	59	3.7765	17	59	0.7472	103.3440	103.3419	2.677	2.766
Link65	36.7714	3.0643	36.0000	61.0830	16	15	5.0691	16	15	1.6612	103.7549	103.6265	2.108	2.109
ditch2	2163.805	9.9123	75.6000	89.0787	16	2	3.2019	15	21	0.0412	103.7909	103.7896	0.602	0.997
228.1	127.5406	5.3142	48.0000	195.3259	16	48	8.1291	16	48	1.5315	100.2845	97.3100	1.426	1.000
ML Ditch	0.2848	0.3797	6.0000	0.0000	0	0	0.0000	0	0	0.0000	97.3100	97.3100	.0000	.0000
255.1	35.1772	3.5177	24.0000	26.5102	16	15	4.0158	16	16	0.7536	98.5984	97.5322	0.664	0.656
MLDitch2	0.4507	0.6009	6.0000	0.0000	0	0	0.0000	0	0	0.0000	97.5322	97.5322	.0000	.0000
FREE # 1	Undefnd	Undefnd	Undefn	207.5374	16	32								
FREE # 2	Undefnd	Undefnd	Undefn	42.4016	16	15								

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| Table E11. Area assumptions used in the analysis|
| Subcritical and Critical flow assumptions from |
| Subroutine Head. See Figure 17-1 in the |
| manual for further information. |
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Conduit Name	Duration of Dry Flow(min)	Duration of Sub-Critical Flow(min)	Durat. of Upstream Critical Flow(min)	Durat. of Downstream Critical Flow(min)	Maximum Hydraulic Radius-m	Maximum X-Sect Area(ft^2)	Maximum Vel*D (ft^2/s)
L-POND6F	858.3333	2021.6667	0.0000	0.0000	1.6078	24.1238	52.0451
L_L-C7	900.0000	150.5833	0.0000	1829.4167	0.8921	8.0465	5.2890
L_L-SD1	846.5000	2033.5000	0.0000	0.0000	2.0256	81.7095	5.3850
L_L-A12	866.8333	2013.1667	0.0000	0.0000	0.9314	8.0442	9.7205
L_L-B12	840.1667	2039.8333	0.0000	0.0000	0.9445	8.0749	26.4739
L_L-A10	888.9167	1991.0833	0.0000	0.0000	0.9001	8.0468	4.2878
L_L-OFFB12	856.3333	2021.8333	1.8333	0.0000	0.9469	8.0741	27.9215
L_L-B10	840.1667	2027.3333	0.0000	12.5000	0.9195	8.0452	2.2047
L_L-B1	840.0000	2040.0000	0.0000	0.0000	1.5222	21.2043	24.4776
L_L-C2	900.0000	1980.0000	0.0000	0.0000	0.9623	9.0508	28.9742
L_L-D2	915.0000	1965.0000	0.0000	0.0000	0.9036	9.0542	27.0003
L-SD2	840.0000	2040.0000	0.0000	0.0000	1.5110	21.1155	21.7206
L_L-D4	1380.0333	282.1889	0.0000	1217.7778	0.8003	6.0516	21.0157
L_L-B9	2549.7000	330.3000	0.0000	0.0000	0.5889	3.2285	2.2343
Link48	2373.5833	506.4167	0.0000	0.0000	0.6064	3.2830	13.4284
L-POND	915.0000	289.3333	0.0000	1675.6667	1.1389	12.0670	30.2169
L_L-G3	915.0000	128.2333	0.0000	1836.7667	0.4461	1.3799	5.1446
L_L-F2	915.0000	172.6250	0.0000	1792.3750	0.4554	1.8474	11.0087
L_L-L23	887.0833	1992.9167	0.0000	0.0000	1.6325	24.1107	46.9572
L_L-E5	915.0000	175.5357	0.0000	1789.4643	0.4531	1.8414	7.0486
L_L-L22	887.0000	1993.0000	0.0000	0.0000	1.5380	24.1345	47.5391
L_L-D9	915.0000	238.5238	0.0000	1726.4762	0.7568	5.1129	2.9817
L_L-L21	858.5000	2021.5000	0.0000	0.0000	1.6361	24.1154	51.4846
L_L-A7	2427.2500	452.7500	0.0000	0.0000	0.6878	3.8126	2.1394
L_L-R11	1381.5833	1498.4167	0.0000	0.0000	0.7062	4.0030	4.4101
L-CIB9	885.0833	191.4762	0.0000	1803.4405	0.8995	8.0460	3.8034
L-B1	1538.1667	219.3929	0.0000	1122.4405	0.8179	6.0477	16.0598
Link55	840.3333	254.9206	0.0000	1784.7460	1.4991	21.1157	38.9017
Link56	915.0333	261.1111	0.0000	1703.8556	0.6001	3.2391	4.4921
Link57	915.0333	267.2444	0.0000	1697.7222	0.6060	3.2787	6.8866
Link58	852.8333	177.6000	0.0000	1849.5667	1.5045	24.1121	48.4014
L-POND6H	885.1667	268.4722	0.0000	1726.3611	1.1486	12.0652	12.0132
L-BWD6	915.0000	59.8624	0.0000	1905.1376	0.5610	2.0482	4.2184
L-A2	915.0333	272.5778	0.0000	1692.3889	0.6058	3.2755	16.5167
Link65	875.3333	2004.6667	0.0000	0.0000	1.1486	12.0664	28.0671
ditch2	840.0000	2040.0000	0.0000	0.0000	2.4162	141.1132	5.8348
228.1	888.4167	1991.5833	0.0000	0.0000	1.6326	24.0281	39.4439
ML Ditch	2880.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
255.1	900.1111	1979.8889	0.0000	0.0000	0.8643	6.6053	5.2988
MLDitch2	2880.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

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| Table E12. Mean Conduit Flow Information |
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Conduit Name	Mean Flow (cfs)	Total Flow (ft^3)	Mean Percent Change	Low Flow Weightng	Mean Froude Number	Mean Hydraulic Radius	Mean Cross Area	Mean Conduit Roughness
L-POND6F	12.0748	2086517.8	0.0225	0.8650	0.2213	0.5665	7.5488	0.0130
L_L-C7	0.5161	89179.731	0.0022	0.8536	0.8684	0.1678	1.6994	0.0130
L_L-SD1	3.9964	690585.83	0.0076	0.8668	0.1205	0.4794	13.5642	0.0350
L_L-A12	0.8426	145607.84	0.0026	0.8636	0.0465	0.3395	2.7438	0.0130
L_L-B12	3.1508	544461.39	0.0065	0.8678	0.2230	0.3455	2.7927	0.0130
L_L-A10	0.4286	74066.564	0.0013	0.8582	0.0274	0.2667	2.3172	0.0130
L_L-OFFB12	2.8303	489072.22	0.0057	0.8653	0.1998	0.3227	2.6758	0.0130
L_L-B10	0.2713	46873.062	0.0014	0.8678	0.0719	0.2866	2.4706	0.0130
L_L-B1	5.0922	879926.66	0.0109	0.8678	0.2840	0.3793	6.0328	0.0130
L_L-C2	1.6527	285583.16	0.0039	0.8536	0.2681	0.2492	2.4471	0.0130

L_L-D2	1.3187	227870.46	0.0044	0.8446	0.1224	0.2182	2.2405	0.0130
L-SD2	4.3133	745331.31	0.0089	0.8678	0.3100	0.3701	5.9330	0.0130
L_L-D4	0.8912	153998.01	0.0022	0.6984	0.5155	0.1720	1.5686	0.0130
L_L-B9	0.0755	13050.708	0.0003	0.3270	0.0512	0.1306	0.6652	0.0130
Link48	0.3473	60010.247	0.0026	0.3903	0.1670	0.1442	0.7790	0.0130
L-POND	2.0388	352302.89	0.0070	0.8446	0.5929	0.2595	3.1629	0.0130
L_L-G3	0.1560	26955.546	0.0005	0.3804	0.2701	0.1026	0.2478	0.0130
L_L-F2	0.1830	31615.434	0.0008	0.3851	0.2195	0.1021	0.4152	0.0130
L_L-L23	12.2755	2121201.7	0.0202	0.8588	0.4388	0.4236	6.5768	0.0130
L_L-E5	0.1082	18694.973	0.0006	0.3932	0.2746	0.0980	0.4017	0.0130
L_L-L22	12.1670	2102452.3	0.0208	0.8588	0.6666	0.3971	6.2531	0.0130
L_L-D9	0.0945	16337.167	0.0010	0.3815	0.2823	0.1662	1.1302	0.0130
L_L-L21	12.0736	2086313.7	0.0219	0.8649	0.1891	0.6601	8.3535	0.0130
L_L-A7	0.2014	34806.261	0.0005	0.3734	0.1330	0.1169	0.5300	0.0130
L_L-R11	0.4018	69437.596	0.0010	0.7022	0.2109	0.1257	0.5771	0.0130
L-CIB9	0.3886	67152.677	0.0011	0.8594	0.6368	0.1841	1.8351	0.0130
L-B1	0.7786	134541.23	0.0040	0.6530	0.2585	0.1736	1.5118	0.0130
Link55	7.1958	1243429.5	0.0141	0.8678	0.5813	0.3681	5.9464	0.0130
Link56	0.0911	15737.026	0.0003	0.3917	0.2583	0.1439	0.8115	0.0130
Link57	0.1411	24375.128	0.0005	0.3512	0.1655	0.1446	0.8135	0.0130
Link58	11.5594	1997469.7	0.0201	0.8658	0.6574	0.4138	6.4882	0.0130
L-POND6H	0.9860	170385.85	0.0046	0.8594	0.5941	0.2593	3.0706	0.0130
L-BWD6	0.1896	32757.086	0.0005	0.5653	0.6395	0.1021	0.2636	0.0130
L-A2	0.0971	16770.603	0.0112	0.3457	0.1644	0.1438	0.8109	0.0130
Link65	2.1098	364574.48	0.0052	0.8623	0.1354	0.3029	3.3800	0.0140
ditch2	4.1815	722564.81	0.0098	0.8678	0.4258	0.5384	22.5835	0.0350
228.1	12.8091	2213407.4	0.0197	0.8584	0.5951	0.4198	6.5177	0.0130
ML Ditch	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0350
255.1	0.7595	131239.96	0.0019	0.8536	0.6934	0.1424	0.9428	0.0130
MLDitch2	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0350
FREE # 1	13.3509	2307042.0						
FREE # 2	1.2432	214832.81						

Table E13. Channel losses(H), headwater depth (HW), tailwater depth (TW), critical and normal depth (Yc and Yn). Use this section for culvert comparisons

Conduit Name	Maximum Flow	Head Loss	Friction Loss	Critical Depth	Normal Depth	HW Elevat	TW Elevat	
L-POND6F	185.9260	0.0000	0.2027	3.1006	2.9166	102.3697	102.1670	Max Flow
L_L-C7	14.6180	0.0000	0.0480	0.7453	0.7113	100.2473	100.3032	Max Flow
L_L-SD1	88.7680	0.0000	0.5461	1.5450	2.6666	103.0123	102.4641	Max Flow
L_L-A12	28.0927	0.0000	0.1440	1.1524	1.7911	103.3198	103.1762	Max Flow
L_L-B12	64.7815	0.0000	0.7590	3.4285	2.0000	103.9386	103.1762	Max Flow
L_L-A10	13.2144	0.0000	0.1117	0.6967	1.1231	103.1880	103.0730	Max Flow
L_L-OFFB12	58.8708	0.0000	0.1745	1.8875	2.0000	104.1136	103.9385	Max Flow
L_L-B10	4.9287	0.0000	0.0151	0.3602	0.6824	104.2109	104.1948	Max Flow
L_L-B1	104.0615	0.0000	0.0999	1.9001	2.9077	101.7332	101.6360	Max Flow
L_L-C2	44.3116	0.0000	0.6231	1.8919	3.0000	103.6544	103.0294	Max Flow
L_L-D2	45.2992	0.0000	1.1178	1.9203	2.5150	103.7789	102.6526	Max Flow
L-SD2	82.0159	0.0000	0.1524	1.6209	2.4291	101.8791	101.7332	Max Flow
L_L-D4	31.6566	0.2139	0.4589	1.5121	1.1417	102.0699	101.3960	Max Flow
L_L-B9	3.0406	0.0000	0.0449	0.6074	0.5409	100.6982	100.7077	Max Flow
Link48	10.0361	0.0000	0.0311	1.1331	0.9504	102.8348	102.8052	Max Flow
L-POND	69.8145	0.2611	0.3064	2.1146	3.0000	102.6526	102.0811	Max Flow
L_L-G3	6.5114	0.0000	0.2338	0.9864	1.5000	97.7363	97.4464	Max Flow
L_L-F2	7.6441	0.0000	0.2451	1.0707	1.5000	99.4898	99.2390	Max Flow
L_L-L23	188.0238	0.0000	1.1968	3.1238	4.0000	101.4467	100.2489	Max Flow
L_L-E5	4.5745	0.0000	0.1754	0.8206	1.0093	100.0592	99.9086	Max Flow
L_L-L22	186.8757	0.0000	0.3832	3.1111	2.4991	101.8146	101.4321	Max Flow
L_L-D9	3.9130	0.0000	0.0085	0.6483	0.7413	100.1806	100.0646	Max Flow
L_L-L21	185.9262	0.0000	0.3642	3.1006	4.0000	102.1670	101.8026	Max Flow

L_L-A7	6.3908	0.0000	0.0247	0.5196	0.7585	97.5018	97.4817	Max Flow
L_L-R11	13.2322	0.0000	0.0787	0.8449	1.3739	98.6791	98.5982	Max Flow
L-CIB9	10.1412	0.0125	0.0384	0.5839	0.7677	101.4916	101.4513	Max Flow
L-B1	22.6465	0.0000	0.0533	1.2094	2.0000	102.8052	102.7497	Max Flow
Link55	160.3580	0.0000	0.6291	2.5352	3.0000	101.6360	101.0120	Max Flow
Link56	3.3311	0.0086	0.0205	0.6378	0.6938	102.1109	102.0811	Max Flow
Link57	5.8779	0.0270	0.0255	0.8562	0.8386	100.7133	100.6601	Max Flow
Link58	179.3959	0.4307	0.4973	3.0278	4.0000	103.2165	102.2872	Max Flow
L-POND6H	30.9068	0.1025	0.0674	1.2280	2.0612	102.1524	101.9833	Max Flow
L-BWD6	7.0223	0.0000	0.4187	0.9398	1.5899	99.1609	98.6791	Max Flow
L-A2	11.8920	0.1096	0.0980	1.2380	1.2851	102.3991	102.1941	Max Flow
Link65	61.0525	0.0000	0.3554	1.9339	3.0000	103.0294	102.6698	Max Flow
ditch2	88.9013	0.0000	0.1713	1.7431	1.8952	101.9022	101.7935	Max Flow
228.1	195.3244	0.0000	2.9717	3.2046	4.0000	100.2844	97.3100	Max Flow
ML Ditch	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	Max Flow
255.1	26.4947	0.0000	1.0594	0.9553	1.3117	98.5982	97.5317	Max Flow
MLDitch2	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	Max Flow

Table E13a. CULVERT ANALYSIS CLASSIFICATION, and the time the culvert was in a particular classification during the simulation. The time is in minutes. The Dynamic Wave Equation is used for all conduit analysis but the culvert flow classification is based on the HW and TW depths.

Conduit Name	Mild Slope Critical D Outlet Control	Mild Slope TW Control Outlet Control	Steep Slope TW Insignf Entrance Control	Slug Flow Outlet/ Entrance Control	Mild Slope TW > D Outlet Control	Mild Slope TW <= D Outlet Control	Outlet Control	Inlet Control	Inlet Configuration
L-POND6F	0.0000	0.0000	883.0000	1854.0000	0.0000	142.0000	1.0000	0.0000	None
L_L-C7	169.0000	1623.0000	912.0000	32.0000	0.0000	115.0000	29.0000	0.0000	None
L_L-SD1	0.0000	2034.0000	846.0000	0.0000	0.0000	0.0000	0.0000	0.0000	None
L_L-A12	0.0000	1874.0000	866.0000	0.0000	140.0000	0.0000	0.0000	0.0000	None
L_L-B12	8.0000	1892.0000	840.0000	0.0000	136.0000	4.0000	0.0000	0.0000	None
L_L-A10	0.0000	1858.0000	888.0000	0.0000	134.0000	0.0000	0.0000	0.0000	None
L_L-OFFB12	0.0000	1881.0000	856.0000	0.0000	143.0000	0.0000	0.0000	0.0000	None
L_L-B10	5.0000	1892.0000	840.0000	0.0000	143.0000	0.0000	0.0000	0.0000	None
L_L-B1	5.0000	1876.0000	840.0000	0.0000	159.0000	0.0000	0.0000	0.0000	None
L_L-C2	0.0000	1822.0000	900.0000	0.0000	158.0000	0.0000	0.0000	0.0000	None
L_L-D2	0.0000	1806.0000	915.0000	0.0000	159.0000	0.0000	0.0000	0.0000	None
L-SD2	0.0000	1882.0000	840.0000	0.0000	158.0000	0.0000	0.0000	0.0000	None
L_L-D4	0.0000	0.0000	2656.0000	50.0000	0.0000	149.0000	6.0000	19.0000	0 deg Wingwall Flares
L_L-B9	0.0000	0.0000	2685.0000	51.0000	0.0000	111.0000	33.0000	0.0000	None
Link48	0.0000	0.0000	2604.0000	58.0000	0.0000	150.0000	68.0000	0.0000	None
L-POND	585.0000	1221.0000	915.0000	0.0000	159.0000	0.0000	0.0000	0.0000	90 and 15 deg Wingwall Flares
L_L-G3	89.0000	399.0000	2392.0000	0.0000	0.0000	0.0000	0.0000	0.0000	None
L_L-F2	172.0000	188.0000	2377.0000	0.0000	143.0000	0.0000	0.0000	0.0000	None
L_L-L23	12.0000	1838.0000	887.0000	0.0000	143.0000	0.0000	0.0000	0.0000	None
L_L-E5	185.0000	198.0000	2351.0000	0.0000	146.0000	0.0000	0.0000	0.0000	None
L_L-L22	0.0000	0.0000	2593.0000	42.0000	0.0000	131.0000	114.0000	0.0000	None
L_L-D9	132.0000	216.0000	2388.0000	0.0000	144.0000	0.0000	0.0000	0.0000	None
L_L-L21	10.0000	1868.0000	858.0000	0.0000	144.0000	0.0000	0.0000	0.0000	None
L_L-A7	0.0000	452.0000	2428.0000	0.0000	0.0000	0.0000	0.0000	0.0000	None
L_L-R11	19.0000	1479.0000	1382.0000	0.0000	0.0000	0.0000	0.0000	0.0000	None
L-CIB9	835.0000	1008.0000	885.0000	0.0000	134.0000	0.0000	0.0000	18.0000	90 and 15 deg Wingwall Flares
L-B1	301.0000	886.0000	1539.0000	0.0000	154.0000	0.0000	0.0000	0.0000	None
Link55	148.0000	1733.0000	840.0000	0.0000	159.0000	0.0000	0.0000	0.0000	None
Link56	210.0000	138.0000	2356.0000	0.0000	176.0000	0.0000	0.0000	0.0000	0 deg Wingwall Flares
Link57	107.0000	86.0000	2485.0000	13.0000	62.0000	109.0000	14.0000	4.0000	90 and 15 deg Wingwall Flares
Link58	308.0000	1450.0000	852.0000	0.0000	138.0000	0.0000	0.0000	132.0000	90 and 15 deg Wingwall Flares
L-POND6H	531.0000	1315.0000	885.0000	0.0000	149.0000	0.0000	0.0000	0.0000	0 deg Wingwall Flares
L-BWD6	75.0000	1001.0000	1804.0000	0.0000	0.0000	0.0000	0.0000	0.0000	None
L-A2	64.0000	115.0000	2502.0000	20.0000	53.0000	118.0000	8.0000	0.0000	90 and 15 deg Wingwall Flares
Link65	0.0000	1846.0000	875.0000	0.0000	159.0000	0.0000	0.0000	0.0000	None
ditch2	1749.0000	291.0000	840.0000	0.0000	0.0000	0.0000	0.0000	0.0000	None
228.1	0.0000	1992.0000	888.0000	0.0000	0.0000	0.0000	0.0000	0.0000	None
ML Ditch	0.0000	0.0000	2880.0000	0.0000	0.0000	0.0000	0.0000	0.0000	None
255.1	0.0000	1980.0000	900.0000	0.0000	0.0000	0.0000	0.0000	0.0000	None
MLDitch2	0.0000	0.0000	2880.0000	0.0000	0.0000	0.0000	0.0000	0.0000	None

Kinematic Wave Approximations
Time in Minutes for Each Condition

Conduit Name	Duration of Normal Flow	Slope Criteria	Super-Critical	Roll Waves
L-POND6F	12.8333	1864.9306	5.1667	0.0000
L_L-C7	2.1111	29.0691	1706.2111	0.0000
L_L-SD1	1525.6000	1642.3405	0.1667	0.0000
L_L-A12	0.0000	1833.6935	0.0000	0.0000
L_L-B12	1.8542	1858.8250	1.6667	0.0000
L_L-A10	1531.7500	1850.2063	0.0000	0.0000
L_L-OFFB12	0.0333	1839.2625	0.0000	0.0000
L_L-B10	1455.2500	1858.5833	0.0000	0.0000
L_L-B1	0.4762	1822.8813	6.0000	0.0000
L_L-C2	148.8333	271.7500	0.0000	0.0000
L_L-D2	1741.2250	1815.7736	0.2333	0.0000
L-SD2	215.5833	432.8214	2.3333	0.0000
L_L-D4	61.7583	107.1238	1696.3556	0.0000
L_L-B9	1801.4833	1846.2524	0.0000	0.0000
Link48	1635.7778	1726.7421	103.9472	0.0000
L-POND	2.1667	92.5556	1479.9167	0.0000

L_L-G3	0.1111	106.8611	1625.2222	0.0000
L_L-F2	0.2333	23.8722	1610.2167	0.0000
L_L-L23	1765.0014	1803.9653	7.4444	0.0000
L_L-E5	7.7726	28.9663	1641.3111	0.0000
L_L-L22	1723.0833	1847.6528	130.8472	0.0000
L_L-D9	16.3333	92.6448	1652.2667	0.0000
L_L-L21	4.2917	1780.2917	2.8333	0.0000
L_L-A7	105.9861	308.8889	0.0000	0.0000
L_L-R11	1680.2222	1680.2222	10.1944	0.0000
L-CIB9	7.7917	55.5073	2.3333	0.0000
L-B1	0.1190	45.8373	1532.2778	0.0000
Link55	0.0000	76.7222	7.0000	0.0000
Link56	16.6389	89.0000	1620.5333	0.0000
Link57	9.9000	92.2825	1645.9444	0.0000
Link58	0.0000	0.0000	8.6667	0.0000
L-POND6H	0.0000	82.6730	1442.9167	0.0000
L-BWD6	0.0000	0.0000	0.8000	0.0000
L-A2	11.7833	99.2714	1662.3333	0.0000
Link65	1520.0833	1805.0040	0.0000	0.0000
ditch2	115.6593	248.9667	2.0000	0.0000
228.1	0.0556	0.0556	2.3333	0.0000
ML Ditch	0.0000	0.0000	0.0000	0.0000
255.1	25.3611	27.1389	0.0000	0.0000
MLDitch2	0.0000	0.0000	0.0000	0.0000

Table E14 - Natural Channel Overbank Flow Information

Conduit Name	Maximum Velocity Left	Maximum Velocity Center	Maximum Velocity Right	Maximum Flow Left	Maximum Flow Center	Maximum Flow Right	Maximum Area Left	Maximum Area Center	Maximum Area Right	Max. Storage Volume Left	Max. Storage Volume Center	Max. Storage Volume Right	Maximum Depth
L_L-SD1	0.0000	1.0869	0.0000	0.0000	88.7982	0.0000	0.0000	81.6998	0.0000	0.0000	31010.450	0.0000	3.5897

Table E14a - Natural Channel Encroachment Information

Conduit Name	Existing Conveyance Condition Left Bank	Centre Channel	Right Bank	Total Station	Encroachment Conveyance Condition Left Station	Right Station	Left Bank	Centre Channel	Right Bank	Total Station	% Volume Reduction Left	% Volume Reduction Right	Encroachment Data Depth Incr.	Encroachment Data Method
L_L-SD1	0.0000	5558.3	0.0000	5558.3	39.783	79.290	0.0000	5558.3	0.0000	5558.3	39.783	79.290	0.0000	0.0000	0.0000	None

Table E14b - Floodplain Mapping

Conduit Name	Upstream WS Elev.	Downstream WS Elev.	Channel Length	Center Station	Left Offsets Natural	Left Offsets Encroach	Left Offsets Bank	Right Offsets Natural	Right Offsets Encroach	Right Offsets Bank	Channel Widths-> Total	Channel Widths-> Encroach.
L_L-SD1	103.8389	103.7909	379.5660	62.0590	22.2764	22.2764	27.2970	17.2310	17.2310	18.8640	39.5074	39.5074

Table E15 - SPREADSHEET INFO LIST

Conduit Flow and Junction Depth Information for use in spreadsheets. The maximum values in this table are the true maximum values because they sample every time step. The values in the review results may only be the maximum of a subset of all the time steps in the run. Note: These flows are only the flows in a single barrel.

Conduit Name	Maximum Flow (cfs)	Total Flow (ft^3)	Maximum Velocity (ft/s)	Maximum Volume (ft^3)	##	Junction Name	Invert Elevation (ft)	Maximum Elevation (ft)
L-POND6F	185.9260	2086517.785	7.7207	1364.3571	##	BW-J3	95.6900	102.4097
L_L-C7	16.4977	89179.7311	4.7124	596.0358	##	CI-C7	99.0000	102.4203
L_L-SD1	88.7982	690585.8326	2.4240	31010.4502	##	SD-1A	100.0000	103.7909
L_L-A12	28.0939	145607.8439	3.5050	716.0188	##	SD-1	100.4200	103.8389
L_L-B12	64.8033	544461.3940	8.0777	714.0960	##	CI-A12	100.5300	103.8725
L_L-A10	13.2340	74066.5636	1.6525	2506.7045	##	CI-B12	100.5100	104.3824
L_L-OFFB12	58.8855	489072.2224	7.3330	199.1720	##	DI-A10	100.8400	103.9007
L_L-B10	4.9337	46873.0621	1.0407	2457.3326	##	OFF-B12	100.5200	104.5237
L_L-B1	104.3303	879926.6596	4.9571	1206.9697	##	DI-B10	100.7000	104.3912
L_L-C2	44.3367	285583.1594	4.9033	2090.5206	##	BW-C4	97.9900	103.3454
L_L-D2	45.3295	227870.4596	5.0166	3583.0101	##	BW-C3	97.4300	103.7549
L-SD2	82.3192	745331.3071	3.9110	2956.2928	##	BW-C5	97.9900	103.3184
L_L-D4	31.7308	153998.0139	5.2637	666.6900	##	B-1	98.5300	103.7001

L_L-B9	3.0462	13050.7080	2.8240	218.1221	##	BW-C1	97.6600	104.1408
Link48	10.0519	60010.2471	4.3590	52.6935	##	BW-D4	98.4900	103.4271
L-POND	69.8404	352302.8910	5.7990	1170.4235	##	BW-D3	97.2600	103.4604
L_L-G3	6.5298	26955.5465	4.7341	63.6515	##	BW-D1	98.4000	104.0660
L_L-F2	9.0424	31615.4344	5.1025	86.3030	##	A-1	99.8800	103.3548
L_L-L23	188.0240	2121201.668	7.8145	7876.3229	##	SD-2	97.5100	103.7896
L_L-E5	4.8246	18694.9730	3.8200	171.9014	##	BW-J1	97.3000	103.6265
L_L-L22	186.8765	2102452.251	7.7663	2548.0313	##	CI-B9	99.4100	103.3540
L_L-D9	4.8876	16337.1668	2.5902	479.7264	##	B-1A	98.6800	103.7091
L_L-L21	185.9269	2086313.699	7.7213	2457.4067	##	POND6H	96.3900	103.3145
L_L-A7	6.4002	34806.2610	2.1305	240.0177	##	DI-L25	93.3100	97.3100
L_L-R11	13.2359	69437.5956	3.3067	236.6966	##	CI-G3	96.5500	97.7372
L-CIB9	10.1817	67152.6768	2.9408	1464.1970	##	DI-L24	94.5800	100.2845
L-B1	22.6573	134541.2312	4.7467	151.1944	##	CI-F2	97.1700	100.3279
Link55	160.5286	1243429.459	7.6302	3187.7245	##	MH-L23	95.1200	101.4701
Link56	3.3314	15737.0264	1.9469	316.0431	##	CI-E5	97.9000	101.4895
Link57	5.8801	24375.1277	2.6805	125.1492	##	MH-L22	95.2700	101.8488
Link58	179.3969	1997469.732	7.4518	3594.2673	##	CI-D9	97.0000	101.8494
L-POND6H	30.9186	170385.8511	2.5700	1310.7309	##	DI-R13	96.2200	97.5322
L-BWD6	7.0239	32757.0861	3.4315	434.3371	##	CI-A7	96.3100	97.5473
L-A2	11.9519	16770.6030	3.7765	118.5622	##	DI-R12	97.2700	98.5984
Link65	61.0830	364574.4763	5.0691	1532.4492	##	CI-R11	97.3400	98.6792
ditch2	89.0787	722564.8135	3.2019	29373.7340	##	L-21	95.4100	102.2091
228.1	195.3259	2213407.379	8.1291	18002.3306	##	SD-3	97.3600	103.6851
ML Ditch	0.0000	0.0000	0.0000	0.0000	##	BW-D6	97.8000	99.1610
255.1	26.5102	131239.9606	4.0158	4673.1028	##	A-2	97.9900	103.3440
MLDitch2	0.0000	0.0000	0.0000	0.0000	##	POND6F	97.6000	103.3419
FREE # 1	207.5374	2307042.049	0.0000	0.0000	##			
FREE # 2	42.4016	214832.8116	0.0000	0.0000	##			

==
| Table E15a - SPREADSHEET REACH LIST |
| Peak flow and Total Flow listed by Reach or those |
| conduits or diversions having the same |
| upstream and downstream nodes. |
==

Upstream Node	Downstream Node	Maximum Flow (cfs)	Total Flow (ft^3)
BW-J3	L-21	185.9260	2086517.79
CI-C7	BW-J3	16.4977	89179.7311
SD-1	SD-1A	88.7982	690585.833
CI-A12	SD-1	28.0939	145607.844
CI-B12	SD-1	64.8033	544461.394
DI-A10	CI-A12	13.2340	74066.5636
OFF-B12	CI-B12	58.8855	489072.222
DI-B10	CI-B12	4.9337	46873.0621
SD-3	BW-J1	104.3303	879926.660
BW-C1	BW-C3	44.3367	285583.159
BW-D1	BW-D3	45.3295	227870.460
SD-2	SD-3	82.3192	745331.307
BW-D4	POND6H	31.7308	153998.014
A-1	CI-B9	3.0462	13050.7080

B-1A	B-1	10.0519	60010.2471
BW-D3	POND6H	69.8404	352302.891
CI-G3	DI-L25	6.5298	26955.5465
CI-F2	DI-L24	9.0424	31615.4344
MH-L23	DI-L24	188.0240	2121201.67
CI-E5	MH-L23	4.8246	18694.9730
MH-L22	MH-L23	186.8765	2102452.25
CI-D9	MH-L22	4.8876	16337.1668
L-21	MH-L22	185.9269	2086313.70
CI-A7	DI-R13	6.4002	34806.2610
CI-R11	DI-R12	13.2359	69437.5956
CI-B9	POND6F	10.1817	67152.6768
B-1	SD-3	22.6573	134541.231
BW-J1	POND6H	160.5286	1243429.46
BW-C5	POND6H	3.3314	15737.0264
BW-C4	POND6F	5.8801	24375.1277
POND6H	BW-J3	179.3969	1997469.73
POND6F	POND6H	30.9186	170385.851
BW-D6	CI-R11	7.0239	32757.0861
A-2	POND6F	11.9519	16770.6030
BW-C3	BW-J1	61.0830	364574.476
SD-1A	SD-2	89.0787	722564.813
DI-L24	DI-L25	195.3259	2213407.38
DI-R12	DI-R13	26.5102	131239.961

```
############################################################
# Table E16. New Conduit Information Section               #
#            Conduit Invert (IE) Elevation and Conduit     #
#            Maximum Water Surface (WS) Elevations         #
############################################################
```

Conduit Name	Upstream Node	Downstream Node	IE Up	IE Dn	WS Up	WS Dn	Conduit Type
L-POND6F	BW-J3	L-21	95.6900	95.4100	102.4096	102.2091	Rectangle
L_L-C7	CI-C7	BW-J3	99.0000	98.6600	102.4203	102.4096	Rectangle
L_L-SD1	SD-1	SD-1A	100.4200	100.0000	103.8389	103.7909	Natural
L_L-A12	CI-A12	SD-1	100.5300	100.4200	103.8725	103.8389	Rectangle
L_L-B12	CI-B12	SD-1	100.5100	100.4200	104.3825	103.8389	Rectangle
L_L-A10	DI-A10	CI-A12	100.8400	100.5300	103.9007	103.8725	Rectangle
L_L-OFFB12	OFF-B12	CI-B12	100.5300	100.5100	104.5237	104.3824	Rectangle
L_L-B10	DI-B10	CI-B12	100.7000	100.5200	104.3912	104.3824	Rectangle
L_L-B1	SD-3	BW-J1	97.3600	97.3000	103.6851	103.6265	Rectangle
L_L-C2	BW-C1	BW-C3	97.6600	97.4300	104.1408	103.7549	Rectangle
L_L-D2	BW-D1	BW-D3	98.4000	97.2600	104.0660	103.4604	Rectangle
L-SD2	SD-2	SD-3	97.5100	97.3600	103.7896	103.6851	Rectangle
L_L-D4	BW-D4	POND6H	98.4900	97.2600	103.4271	103.3145	Rectangle
L_L-B9	A-1	CI-B9	99.8800	99.4100	103.3548	103.3540	Circular
Link48	B-1A	B-1	98.6800	98.5300	103.7091	103.7001	Circular
L-POND	BW-D3	POND6H	97.2600	97.1600	103.4604	103.3145	Rectangle
L_L-G3	CI-G3	DI-L25	96.5500	96.4600	97.7372	97.4479	Circular
L_L-F2	CI-F2	DI-L24	97.1700	97.0800	100.3279	100.2845	Circular
L_L-L23	MH-L23	DI-L24	95.1200	94.5800	101.4701	100.2845	Rectangle
L_L-E5	CI-E5	MH-L23	97.9000	97.6200	101.4895	101.4701	Circular

L_L-L22	MH-L22	MH-L23	95.9200	95.1200	101.8488	101.4701	Rectangle
L_L-D9	CI-D9	MH-L22	97.0000	96.7700	101.8494	101.8488	Circular
L_L-L21	L-21	MH-L22	95.4100	95.2700	102.2091	101.8488	Rectangle
L_L-A7	CI-A7	DI-R13	96.3100	96.2200	97.5473	97.5322	Rectangle
L_L-R11	CI-R11	DI-R12	97.3400	97.2700	98.6792	98.5984	Rectangle
L-CIB9	CI-B9	POND6F	99.4100	99.0900	103.3540	103.3419	Rectangle
L-B1	B-1	SD-3	98.5300	98.5000	103.7001	103.6851	Rectangle
Link55	BW-J1	POND6H	97.3000	97.1500	103.6265	103.3145	Rectangle
Link56	BW-C5	POND6H	97.9900	97.6800	103.3184	103.3145	Circular
Link57	BW-C4	POND6F	97.9900	97.8000	103.3454	103.3419	Circular
Link58	POND6H	BW-J3	96.3900	96.2400	103.3145	102.4096	Rectangle
L-POND6H	POND6F	POND6H	97.6000	97.4900	103.3419	103.3145	Rectangle
L-BWD6	BW-D6	CI-R11	97.8000	97.5800	99.1610	98.6792	Circular
L-A2	A-2	POND6F	97.9900	97.8100	103.3440	103.3419	Circular
Link65	BW-C3	BW-J1	97.4300	97.3000	103.7549	103.6265	Rectangle
ditch2	SD-1A	SD-2	100.0000	97.5100	103.7909	103.7896	Trapezoid
228.1	DI-L24	DI-L25	94.5800	93.3100	100.2845	97.3100	Rectangle
ML Ditch	DI-L24	DI-L25	102.2100	101.8000	97.3100	97.3100	Trapezoid
255.1	DI-R12	DI-R13	97.2700	96.2200	98.5984	97.5322	Rectangle
MLDitch2	DI-R12	DI-R13	102.1000	101.1300	97.5322	97.5322	Trapezoid

Table E18 - Junction Continuity Error. Division by Volume added 11/96

Continuity Error = Net Flow + Beginning Volume - Ending Volume
---
Total Flow + (Beginning Volume + Ending Volume)/2

Net Flow = Node Inflow - Node Outflow
Total Flow = absolute (Inflow + Outflow)
Intermediate column is a judgement on the node continuity error.

Excellent < 1 percent Great 1 to 2 percent Good 2 to 5 percent
Fair 5 to 10 percent Poor 10 to 25 percent Bad 25 to 50 percent
Terrible > 50 percent

Junction Name	<------Continuity Error -------> Volume	% of Node	% of Inflow	Remaining Volume	Beginning Volume	Net Flow Thru Node	Total Flow Thru Node	Failed to Converge
BW-J3	128.1547	0.0031	0.0051	95.9485	0.0000	224.1032	4173167.248	0
CI-C7	78.7808	0.0441	0.0031	1.2893	0.0000	80.0701	178439.1556	0
SD-1A	-421.1529	-0.0291	0.0167	119.9441	0.0000	-301.2088	1444825.418	0
SD-1	-698.8885	-0.0506	0.0277	174.7092	0.0000	-524.1793	1380655.071	0
CI-A12	9.9269	0.0034	0.0004	68.3785	0.0000	78.3055	291298.9147	0
CI-B12	18.1140	0.0017	0.0007	102.0097	0.0000	120.1237	1089056.100	0
DI-A10	-97.1993	-0.0656	0.0039	30.0488	0.0000	-67.1505	148067.9012	0
OFF-B12	-5.5035	-0.0006	0.0002	11.5987	0.0000	6.0952	978151.8007	0
DI-B10	-176.0942	-0.1880	0.0070	53.9260	0.0000	-122.1682	93624.5398	0
BW-C4	5.2363	0.0107	0.0002	0.0006	0.0000	5.2370	48748.3119	0
BW-C3	-39.3861	-0.0054	0.0016	20.6822	0.0000	-18.7039	729126.2604	0
BW-C5	4.7311	0.0150	0.0002	0.0007	0.0000	4.7318	31478.5611	0
B-1	-102.5771	-0.0381	0.0041	0.0002	0.0000	-102.5769	268948.2205	0
BW-C1	11.0522	0.0019	0.0004	8.1638	0.0000	19.2160	571186.4731	0
BW-D4	-364.1737	-0.1184	0.0144	0.0006	0.0000	-364.1731	307624.2164	0
BW-D3	-336.3425	-0.0478	0.0133	0.0775	0.0000	-336.2650	704259.1613	0
BW-D1	75.2239	0.0165	0.0030	0.0576	0.0000	75.2815	455818.7655	0
A-1	0.0876	0.0003	0.0000	0.1096	0.0000	0.1972	26101.3410	0
SD-2	802.5815	0.0538	0.0318	45.2148	0.0000	847.7962	1491523.881	0

BW-J1	1031.3844	0.0415	0.0409	53.0384	0.0000	1084.4229	2487930.595	0
CI-B9	216.9901	0.1613	0.0086	3.5855	0.0000	220.5756	134525.0008	0
B-1A	-282.0531	-0.2356	0.0112	0.0001	0.0000	-282.0530	119718.3360	0
POND6H	-654.4749	-0.0164	0.0260	88.7432	0.0000	-565.7317	3994316.893	0
DI-L25	-133.8880	-0.0029	0.0053	124.6511	0.0000	-9.2368	4614061.030	0
CI-G3	26.6256	0.0494	0.0011	0.0009	0.0000	26.6265	53938.8573	0
DI-L24	-167.0577	-0.0038	0.0066	195.7919	0.0000	28.7341	4426806.018	0
CI-F2	38.7765	0.0613	0.0015	0.0009	0.0000	38.7774	63269.9718	0
MH-L23	-139.7072	-0.0033	0.0055	86.9187	0.0000	-52.7885	4242348.893	0
CI-E5	52.6051	0.1405	0.0021	0.0008	0.0000	52.6059	37442.8883	0
MH-L22	-7.9735	-0.0002	0.0003	212.7848	0.0000	204.8113	4205103.117	0
CI-D9	27.2938	0.0835	0.0011	0.0007	0.0000	27.2944	32699.9631	0
DI-R13	-1.1103	-0.0003	0.0000	0.1726	0.0000	-0.9376	429669.2741	0
CI-A7	-2.7916	-0.0040	0.0001	0.0003	0.0000	-2.7913	69610.9694	0
DI-R12	-34.6589	-0.0132	0.0014	0.1843	0.0000	-34.4746	262446.8844	0
CI-R11	3.6558	0.0026	0.0001	0.0098	0.0000	3.6656	138880.0274	0
L-21	-13.3900	-0.0003	0.0005	263.3951	0.0000	250.0051	4172831.484	0
SD-3	-25.7546	-0.0015	0.0010	42.7625	0.0000	17.0079	1759799.198	0
BW-D6	-15.0823	-0.0230	0.0006	0.0015	0.0000	-15.0808	65500.2700	0
A-2	-1742.7202	-5.4800	0.0691	0.0004	0.0000	-1742.7198	31801.3308	0
POND6F	145.3694	0.0426	0.0058	7.3923	0.0000	152.7617	340876.2099	0

The total continuity error was -2785.4 cubic feet
The remaining total volume was 1811.6 cubic feet
Your mean node continuity error was Excellent
Your worst node continuity error was Excellent

Table E19 - Junction Inflow & Outflow Listing Units are either ft^3 or m^3 depending on the units in your model.

Junction Name	Constant Inflow to Node	User Inflow to Node	Interface Inflow to Node	DWF Inlow to Node	Inflow through Outfall	RNF Layer Inflow to Node	Outflow from Node	Evaporation from Node	Inflow from 2D Layer
CI-C7	0.0000	89257.5500	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
SD-1A	0.0000	31671.1000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
CI-A12	0.0000	71622.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
CI-B12	0.0000	8649.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
DI-A10	0.0000	73998.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
OFF-B12	0.0000	489069.7000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
DI-B10	0.0000	46746.2000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
BW-C4	0.0000	24372.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
BW-C3	0.0000	78966.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
BW-C5	0.0000	15741.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
B-1	0.0000	74394.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
BW-C1	0.0000	285597.1000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
BW-D4	0.0000	153621.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
BW-D3	0.0000	124083.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
BW-D1	0.0000	227943.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
A-1	0.0000	13050.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
SD-2	0.0000	23625.1000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
CI-B9	0.0000	54319.5500	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
B-1A	0.0000	59706.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
POND6H	0.0000	60993.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
DI-L25	0.0000	66654.0000	0.0000	0.0000	2.0554	0.0000	2.3070E+06	0.0000	

CI-G3	0.0000	26982.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
DI-L24	0.0000	60579.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CI-F2	0.0000	31653.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CI-E5	0.0000	18747.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CI-D9	0.0000	16362.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
DI-R13	0.0000	48789.0000	0.0000	0.0000	1.2409	0.0000	214832.8116	0.0000
CI-A7	0.0000	34803.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
DI-R12	0.0000	61767.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CI-R11	0.0000	36684.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
BW-D6	0.0000	32742.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
A-2	0.0000	15030.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
POND6F	0.0000	62190.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Table E20 - Junction Flooding and Volume Listing. The maximum volume is the total volume in the node including the volume in the flooded storage area. This is the max volume at any time. The volume in the flooded storage area is the total volume above the ground elevation, where the flooded pond storage area starts. The fourth column is instantaneous, the fifth is the sum of the flooded volume over the entire simulation. Units are either ft^3 or m^3 depending on the units.

Junction Name	Surcharged Time (min)	Flooded Time(min)	Out of 1D-System (Flooded Volume)	Maximum Volume	Passed to 2D cell OR Volume Stored in allowed Flood Pond of 1D-System
BW-J3	126.9497	0.0000	0.0000	84.4392	0.0000
CI-C7	115.6323	0.0000	0.0000	42.9796	0.0000
SD-1A	0.0000	0.0000	0.0000	47.6365	0.0000
SD-1	0.0000	0.0000	0.0000	42.9614	0.0000
CI-A12	134.3304	0.0000	0.0000	42.0015	0.0000
CI-B12	142.5694	0.0000	0.0000	48.6618	0.0000
DI-A10	117.9435	0.0000	0.0000	38.4605	0.0000
OFF-B12	143.5347	0.0000	0.0000	50.3103	0.0000
DI-B10	134.4167	55.4500	0.0000	2435.5720	2615.9246
BW-C4	166.7714	22.5833	0.0000	72.4674	7.0624
BW-C3	157.2619	0.0000	0.0000	79.4783	0.0000
BW-C5	164.6000	0.0000	0.0000	66.9562	0.0000
B-1	153.6984	81.5500	0.0000	3627.3634	3710.6543
BW-C1	153.6865	0.0000	0.0000	81.4375	0.0000
BW-D4	157.9365	107.5148	0.0000	11606.3011	12736.6844
BW-D3	158.4571	78.2407	0.0000	4184.1987	4513.7330
BW-D1	133.5298	0.0000	0.0000	71.1987	0.0000
A-1	111.5024	0.0000	0.0000	43.6639	0.0000
SD-2	0.0000	0.0000	0.0000	78.9096	0.0000
BW-J1	159.2762	53.5463	0.0000	1936.8177	1966.6673
CI-B9	125.5952	90.2477	0.0000	1782.3272	1778.5587
B-1A	149.8968	83.3148	0.0000	6282.8002	6545.6118
POND6H	148.4653	0.0000	0.0000	401681.3906	0.0000
DI-L25	0.0000	0.0000	0.0000	50.2640	0.0000
CI-G3	0.0000	0.0000	0.0000	14.9188	0.0000
DI-L24	0.0000	0.0000	0.0000	71.6832	0.0000
CI-F2	143.2222	0.0000	0.0000	39.6818	0.0000

MH-L23	145.7986	0.0000	0.0000	79.7957	0.0000
CI-E5	141.9653	0.0000	0.0000	45.1051	0.0000
MH-L22	138.2917	0.0000	0.0000	82.6695	0.0000
CI-D9	141.0764	0.0000	0.0000	60.9378	0.0000
DI-R13	0.0000	0.0000	0.0000	16.4897	0.0000
CI-A7	0.0000	0.0000	0.0000	15.5479	0.0000
DI-R12	0.0000	0.0000	0.0000	16.6927	0.0000
CI-R11	0.0000	0.0000	0.0000	16.8284	0.0000
L-21	145.0417	0.0000	0.0000	85.4378	0.0000
SD-3	154.3095	67.8704	0.0000	3610.5378	3890.7471
BW-D6	0.0000	0.0000	0.0000	17.1025	0.0000
A-2	166.5333	100.8620	0.0000	8646.1717	9402.4399
POND6F	134.1019	0.0000	0.0000	131224.4238	0.0000

==================================
| Simulation Specific Information |
==================================

Number of Input Conduits.....	40	Number of Simulated Conduits.....	42
Number of Natural Channels.....	1	Number of Junctions.....	40
Number of Storage Junctions.....	16	Number of Weirs.....	0
Number of Orifices.....	0	Number of Pumps.....	0
Number of Free Outfalls.....	2	Number of Tide Gate Outfalls.....	0

===
| Average % Change in Junction or Conduit is defined as: |
| Conduit % Change ==> 100.0 (Q(n+1) - Q(n)) / Qfull |
| Junction % Change ==> 100.0 (Y(n+1) - Y(n)) / Yfull |
===

The Conduit with the largest average change was..L-POND6F   with   0.022 percent
The Junction with the largest average change was.A-2   with   0.025 percent
The Conduit with the largest sinuosity was.......L-A2   with   17.912

==
| Table E21. Continuity balance at the end of the simulation |
| Junction Inflow, Outflow or Street Flooding |
| Error = Inflow + Initial Volume - Outflow - Final   Volume |
==

Inflow Junction	Inflow Volume,ft^3	Average Inflow, cfs
CI-C7	89259.4245	0.5165
SD-1A	31674.7718	0.1833
CI-A12	71624.5072	0.4145
CI-B12	8649.4214	0.0501
DI-A10	74001.3376	0.4282
OFF-B12	489079.5783	2.8303
DI-B10	46751.4776	0.2706
BW-C4	24373.1842	0.1410
BW-C3	78968.6247	0.4570
BW-C5	15741.5347	0.0911
B-1	74396.7422	0.4305
BW-C1	285603.3136	1.6528
BW-D4	153626.2024	0.8890
BW-D3	124085.8107	0.7181
BW-D1	227948.3059	1.3191
A-1	13050.6330	0.0755
SD-2	23627.7602	0.1367
CI-B9	54321.6160	0.3144
B-1A	59708.0889	0.3455
POND6H	60993.9203	0.3530

DI-L25	66656.0554	0.3857
CI-G3	26983.3108	0.1562
DI-L24	60581.5354	0.3506
CI-F2	31654.5374	0.1832
CI-E5	18747.9153	0.1085
CI-D9	16362.7963	0.0947
DI-R13	48790.2409	0.2824
CI-A7	34804.7084	0.2014
DI-R12	61769.3281	0.3575
CI-R11	36685.3457	0.2123
BW-D6	32743.1840	0.1895
A-2	15030.7277	0.0870
POND6F	62191.9513	0.3599
DI-L25	-2.307E+06	-13.3509
DI-R13	-214832.8116	-1.2432

Outflow Junction	Outflow Volume,ft^3	Average Outflow, cfs
DI-L25	2.30704E+06	13.3509
DI-R13	214832.8116	1.2432

===

Initial system volume	=	0.0000 Cu Ft
Total system inflow volume	=	2.520410E+06 Cu Ft
Inflow + Initial volume	=	2.520410E+06 Cu Ft

===

Total system outflow	=	2.521875E+06 Cu Ft
Volume left in system	=	1811.5961 Cu Ft
Evaporation	=	0.0000 Cu Ft
Outflow + Final Volume	=	2.523686E+06 Cu Ft

===

==
| Total Model Continuity Error |
| Error in Continuity, Percent = -0.1105 |
| Error in Continuity, ft^3 = -2785.390 |
| + Error means a continuity loss, - a gain |
==

##
Table E22. Numerical Model judgement section
##

Your overall error was -0.1105 percent

Worst nodal error was in node A-2 with -5.4800 percent

Of the total inflow this loss was 0.0691 percent

Your overall continuity error was Excellent

Excellent Efficiency

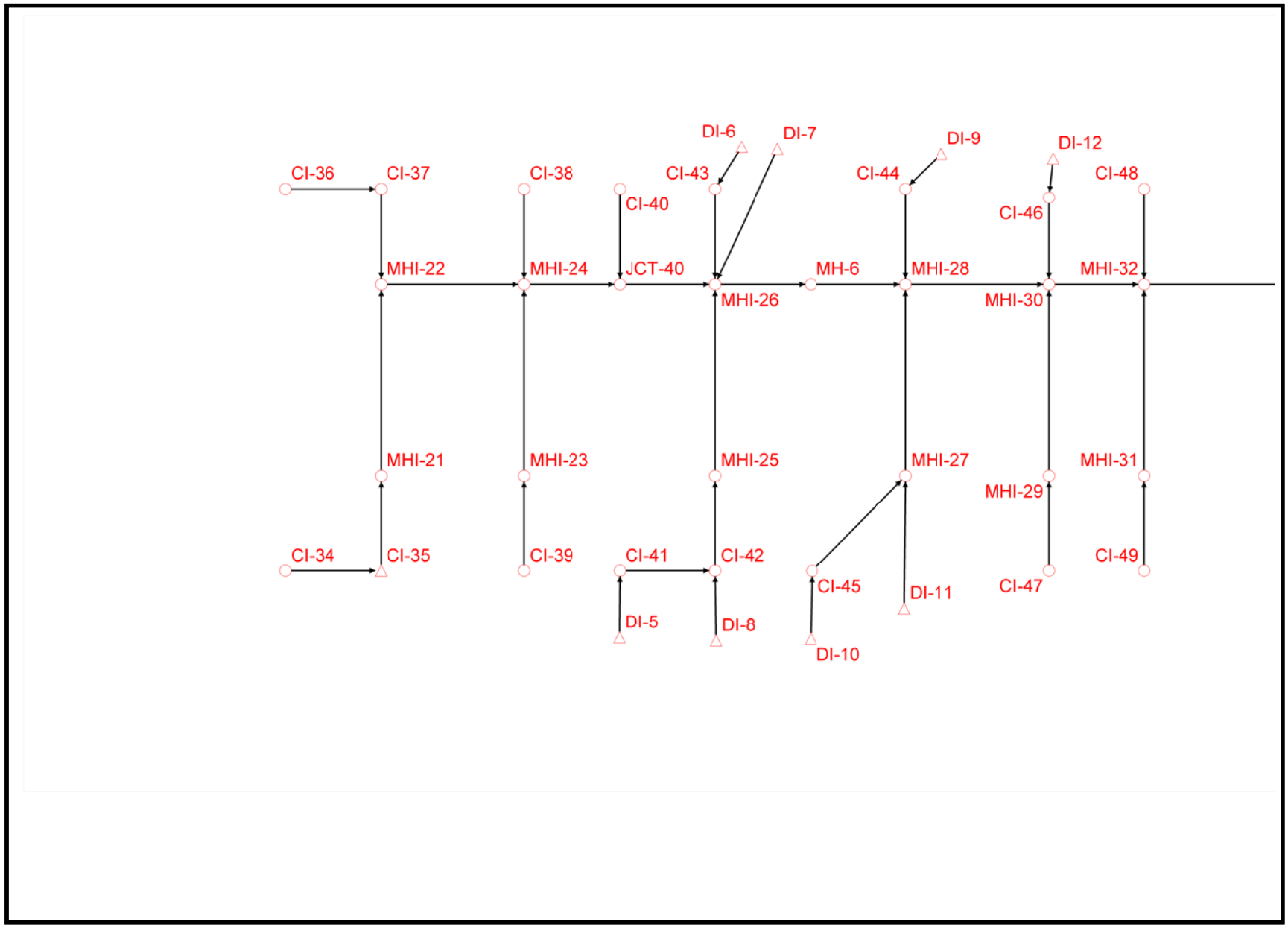
Efficiency of the simulation 1.66

Most Number of Non Convergences at one Node 0.

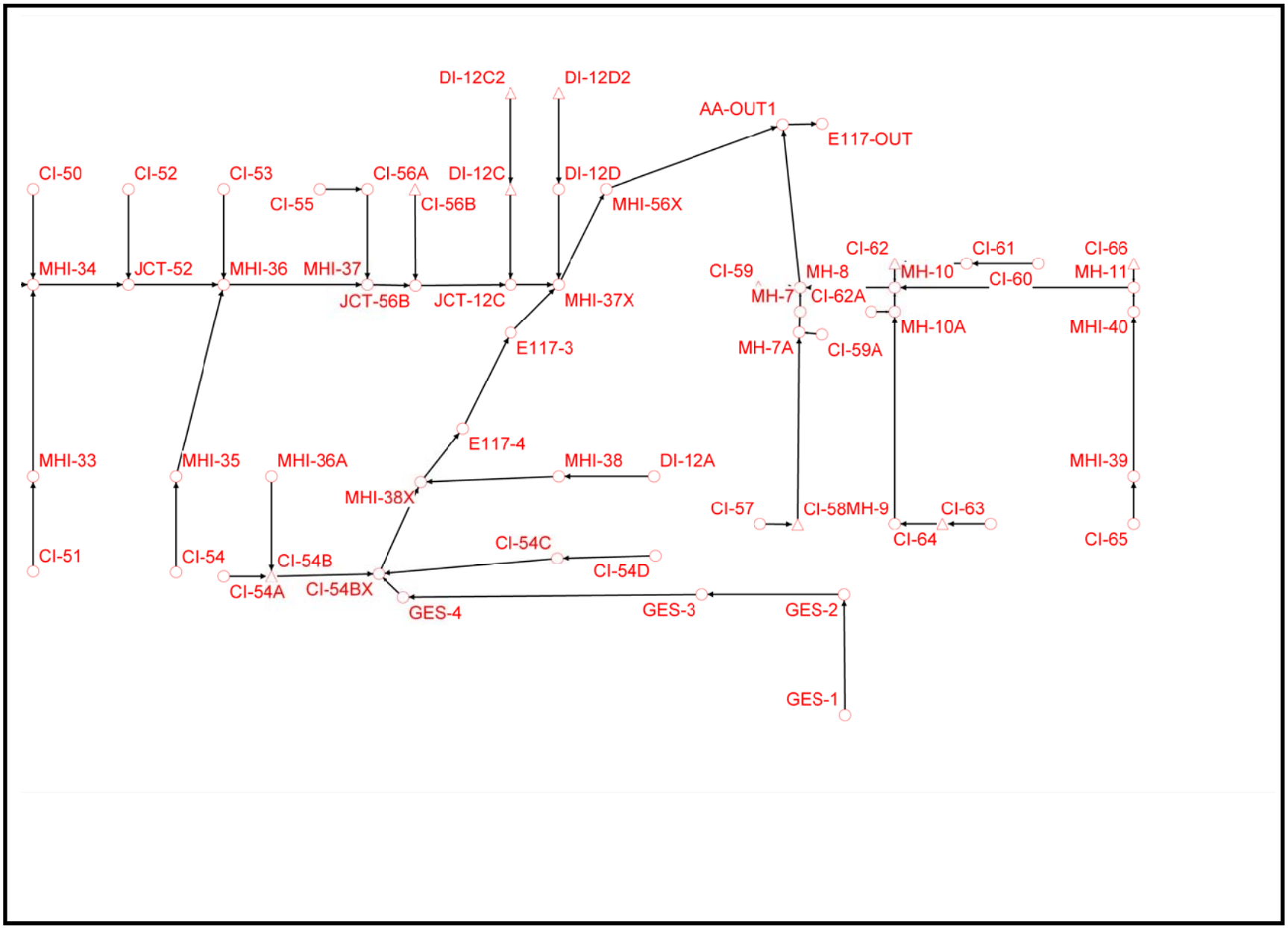
```
Total Number Non Convergences at all Nodes         0.


Total Number of Nodes with Non Convergences        0.



===> Hydraulic model simulation ended normally.
===> XP-SWMM Simulation ended normally.



===> Your input file was named  : P:\Projects\290PMC\PhaseII\DRA\Models\SWMM\Outfalls8A-8B\BW8South_Mit_100-R3.DAT

===> Your output file was named : P:\Projects\290PMC\PhaseII\DRA\Models\SWMM\Outfalls8A-8B\BW8South_Mit_100-R3.out


*============================================================*
|             SWMM Simulation Date and Time Summary          |
*============================================================*
| Starting Date... February   23, 2012  Time...   17:48:57:15  |
|   Ending Date... February   23, 2012  Time...   17:50:36:77  |
|  Elapsed Time...    1.66033 minutes or     99.62000 seconds  |
*============================================================*
```

OUTFALL 9-10
SWMM OUTPUT
100 YR- EXISTING CONDITIONS

OUTFALLS 9 & 10
EXISTING SWMM LAYOUT



OUTFALLS 9 & 10
EXISTING SWMM LAYOUT



Current Directory: C:\XPS\xpstorm
Engine Name: C:\XPS\xpstorm\SWMMEN~1.EXE

Input File : 9-16\SWMM\Report 6-2011\Existing\US290_SegB_EX_A&AA_NS(Final).XP

```
          *================================================*
          |                    xpswmm                      |
          |     Storm and Wastewater Management Model      |
          |           Interface Version: 10.52             |
          |              Engine Version: 10.54             |
          |================================================|
          |                                                |
          |                Developed by                    |
          |                                                |
          |                XP Software                     |
          |                                                |
          |================================================|
          |      XP Software       November, 2006          |
          |       Data File Version --->    11.9           |
          |       Serial Number: 66-1052-0602              |
          |                H & H Resources                 |
          *================================================*
```

Engine Name: C:\XPS\xpstorm\SWMMEN~1.EXE

```
*================================================*
|       Input and Output file names by Layer     |
*================================================*

 Input File  to Layer #     1 JOT.US
 Output File to Layer #     1 JOT.US

*============================================================*
|   Special command line arguments in XP-SWMM2000. This     |
|   now includes program defaults. $Keywords are the program|
|   defaults.  Other Keywords are from the SWMMCOM.CFG file.|
|   or the command line or any cfg file on the command line.|
|   Examples include these in the file xpswm.bat under the   |
|   section :solve or in the windows version XPSWMM32 in the|
|   file solve.bat                                           |
|                                                            |
|   Note: the cfg file should be in the subdirectory swmxp   |
|         or defined by the set variable in the xpswm.bat    |
|         file.  Some examples of the command lines possible|
|         are shown below:                                   |
|                                                            |
|   swmmd swmmcom.cfg                                        |
|   swmmd my.cfg                                             |
|   swmmd nokeys nconv5 perv extranwq                        |
*============================================================*

 $powerstation                        0.0000         1         2
 $perv                                0.0000         0         4
 $oldegg                              0.0000         0         7
 $as                                  0.0000         0        11
 $noflat                              0.0000         0        21
 $oldomega                            0.0000         0        24
 $oldvol                              0.0000         1        28
 $implicit                            0.0000         1        29
 $oldhot                              0.0000         1        31
 $oldscs                              0.0000         0        33
 $flood                               0.0000         1        40
 $nokeys                              0.0000         0        42
 $pzero                               0.0000         0        55
 $oldvol2                             0.0000         2        59
 $storage2                            0.0000         3        62
 $oldhot1                             0.0000         1        63
 $pumpwt                              0.0000         1        70
 $ecloss                              0.0000         1        77
 $exout                               0.0000         0        97
 SPATIAL=0.55                         0.5500         5       124
 $djref = -1.0                       -0.1000         3       143
 $weirlen = 50                       50.0000         1       153
 $oldbnd                              0.0000         1       154
 $nogrelev                            0.0000         1       161
 $ncmid                               0.0000         0       164
 $new_nl_97                           0.0000         2       290
 $best97                              0.0000         1       294
 $newbound                            0.0000         1       295
 $q_tol = 0.01                        0.0001         1       316
 $new_storage                         0.0000         1       322
 $old_iteration                       0.0000         1       333
 MINLEN=10                           10.0000         1       346
 $review_elevation                    0.0000         1       383
 $use_half_volume                     0.0000         1       385
 $min_ts = 0.5                        0.5000         1       407
 $design_restart = on                 0.0000         1       412
 $zero_value=1.e-05                   0.0000         1       415
 $relax_depth = on                    0.0000         1       427
 $saveallpts = on                     0.0000         1       434

 *============================================================*
 | Parameter Values on the Tapes Common Block.These are the |
 | values read from the data file and dynamically allocated |
 | by the model for this simulation.                        |
 *============================================================*

  Number of Subcatchments in the Runoff Block (NW)....     0
  Number of Channel/Pipes in the Runoff Block (NG)....     0
  Runoff Water quality constituents (NRQ).............     0
  Runoff Land Uses per Subcatchment (NLU).............     0
  Number of Elements in the Transport Block (NET).....     0
  Number of Storage Junctions in Transport (NTSE).....     0
  Number of Input Hydrographs in Transport (NTH)......     0
  Number of Elements in the Extran Block (NEE)........    98
  Number of Groundwater Subcatchments in Runoff (NGW).     0
  Number of Interface locations for all Blocks (NIE)..    98
  Number of Pumps in Extran (NEP).....................     0
  Number of Orifices in Extran (NEO)..................     0
  Number of Tide Gates/Free Outfalls in Extran (NTG)..     1
  Number of Extran Weirs (NEW)........................     0
  Number of scs hydrograph points.....................     1
  Number of Extran printout locations (NPO)...........     0
  Number of Tide elements in Extran (NTE).............     1
  Number of Natural channels (NNC)....................     7
  Number of Storage junctions in Extran (NVSE)........    19
  Number of Time history data points in Extran(NTVAL).   300
  Number of Variable storage elements in Extran (NVST)     6
  Number of Input Hydrographs in Extran (NEH).........    76
  Number of Particle sizes in Transport Block (NPS)...     0
  Number of User defined conduits (NHW)...............    98
  Number of Connecting conduits in Extran (NECC)......    20
  Number of Upstream elements in Transport (NTCC).....    10
  Number of Storage/treatment plants (NSTU)...........     1
```

```
 Number of Values for R1 lines in Transport (NR1)....     0
 Number of Nodes to be allowed for (NNOD)............    98
 Number of Plugs in a Storage Treatment Unit.........     1


#######################################################
#    Entry made to the HYDRAULIC Layer(Block) of SWMM #
#    Last Updated June,2005 by XP Software            #

    US 290/ Hempstead Highway Corridor - From W.Little York to Hollister
    Drainage Impact & Mitigation Study - Existing Conditions - SegB_SysA -1


*============================================================*
|        HYDRAULICS TABLES IN THE OUTPUT FILE                |
|  These are the more important tables in the output file.   |
|  You can use your editor to find the table numbers,        |
|  for example: search for Table E20 to check continuity.    |
|  This output file can be imported into a Word Processor    |
|  and printed on US letter or A4 paper using portrait       |
|  mode, courier font, a size of 8 pt. and margins of 0.75   |
|                                                            |
| Table E1   - Basic Conduit Data                            |
| Table E2   - Conduit Factor Data                           |
| Table E3a  - Junction Data                                 |
| Table E3b  - Junction Data                                 |
| Table E4   - Conduit Connectivity Data                     |
| Table E4a  - Dry Weather Flow Data                         |
| Table E4b  - Real Time Control Data                        |
| Table E5   - Junction Time Step Limitation Summary         |
| Table E5a  - Conduit Explicit Condition Summary            |
| Table E6   - Final Model Condition                         |
| Table E7   - Iteration Summary                             |
| Table E8   - Junction Time Step Limitation Summary         |
| Table E9   - Junction  Summary  Statistics                 |
| Table E10  - Conduit   Summary  Statistics                 |
| Table E11  - Area assumptions used in the analysis         |
| Table E12  - Mean conduit information                      |
| Table E13  - Channel losses(H) and culvert info            |
| Table E13a - Culvert Analysis Classification               |
| Table E14  - Natural Channel Overbank Flow Information     |
| Table E14a - Natural Channel Encroachment Information      |
| Table E14b - Floodplain Mapping                            |
| Table E15  - Spreadsheet Info List                         |
| Table E15a - Spreadsheet Reach List                        |
| Table E16  - New Conduit Output Section                    |
| Table E17  - Pump Operation                                |
| Table E18  - Junction Continuity Error                     |
| Table E19  - Junction Inflow & Outflow Listing             |
| Table E20  - Junction Flooding and Volume List             |
| Table E21  - Continuity balance at simulation end          |
| Table E22  - Model Judgement Section                       |
*============================================================*

Time Control from Hydraulics Job Control
Year.........    1995 Month.......       1
Day..........       1 Hour........       0
Minute.......       0 Second......       0


Control information for simulation
----------------------------------

Integration cycles..................    270000
Length of integration step is......      1.00 seconds
Simulation length...................     75.00 hours
Do not create equiv. pipes(NEQUAL).         0
Use U.S. customary units for I/O...         0
Printing starts in cycle...........         1
Intermediate printout intervals of.       500 cycles
Intermediate printout intervals of.      8.33 minutes
Summary printout intervals of......       500 cycles
Summary printout time interval of..      8.33 minutes
Hot start file parameter (REDO)....         0
Initial time.......................      0.00 hours

Iteration variables: Flow Tolerance.   0.00010
                     Head Tolerance.   0.00010
    Minimum depth (m or ft).........   0.00001
    Underrelaxation parameter.......   0.85000
    Time weighting parameter........   0.85000
    Conduit roughness factor........   1.00000
    Flow adjustment factor..........   1.00000
    Initial Condition Smoothing.....         0
    Courant Time Step Factor........   1.00000
    Default Expansion/Contraction K.   0.00000
    Default Entrance/Exit K.........   0.00000
    Routing Method..................   Dynamic Wave
Default surface area of junctions...     12.57 square feet.
Minimum Junction/Conduit Depth......   0.00001 feet.
Ponding Area Coefficient............   5000.00
Ponding Area Exponent...............    1.0000
Minimum Orifice Length..............    500.00 feet.
NJSW input hydrograph junctions.....    76
     or user defined hydrographs....

        Natural Cross-Section information for Channel L_E117-6
        ======================================================
         Cross-Section ID (from X1 card) :     1.0 Channel sequence number :     1

  Left Overbank Length   :     72.0 ft               Maximum Elevation        :   102.72 ft.
  Main Channel Length    :     72.0 ft               Maximum Depth            :    24.03 ft.
  Right Overbank Length  :     72.0 ft               Maximum Section Area     : 22817.92 ft^2
                                                     Maximum hydraulic radius :     9.20 ft.
  Manning N :      0.990  to Station        3494.0    Max topwidth             :  2457.34 ft.
    "    "  :      0.015  in main Channel            Maximum Wetted Perimeter : 2.48E+03 ft
    "    "  :      0.050  Beyond station    3577.8    Max left bank area       :  8918.09 ft^2
                                                     Max right bank area      : 12326.72 ft^2
  Allowable Encroachment Depth :    0.00 ft          Max center channel area  : 1573.114 ft^2

        Natural Cross-Section information for Channel L_E117-5
        ======================================================
         Cross-Section ID (from X1 card) :     2.0 Channel sequence number :     2

  Left Overbank Length   :     47.0 ft               Maximum Elevation        :   102.62 ft.
  Main Channel Length    :     47.0 ft               Maximum Depth            :    24.03 ft.
  Right Overbank Length  :     47.0 ft               Maximum Section Area     : 21491.32 ft^2
                                                     Maximum hydraulic radius :     8.80 ft.
  Manning N :      0.990  to Station        3473.7    Max topwidth             :  2428.88 ft.
    "    "  :      0.015  in main Channel            Maximum Wetted Perimeter : 2.44E+03 ft
    "    "  :      0.050  Beyond station    3600.1    Max left bank area       :  8482.50 ft^2
                                                     Max right bank area      : 11108.37 ft^2
  Allowable Encroachment Depth :    0.00 ft          Max center channel area  : 1900.450 ft^2

        Natural Cross-Section information for Channel L_E117-4
        ======================================================
         Cross-Section ID (from X1 card) :     3.0 Channel sequence number :     3
```

```
 Left Overbank Length   :    263.0 ft               Maximum Elevation         :   109.64 ft.
 Main Channel Length    :    263.0 ft               Maximum Depth             :    31.05 ft.
 Right Overbank Length  :    263.0 ft               Maximum Section Area      : 27247.44 ft^2
                                                    Maximum hydraulic radius :    10.89 ft.
 Manning N :      0.990  to Station        4153.9    Max topwidth              :  2479.67 ft.
   "    "  :      0.015  in main Channel             Maximum Wetted Perimeter : 2.50E+03 ft
   "    "  :      0.050  Beyond station    4435.6    Max left bank area        : 17052.06 ft^2
                                                    Max right bank area       :  5027.68 ft^2
 Allowable Encroachment Depth :    0.00 ft           Max center channel area   : 5167.698 ft^2

       Natural Cross-Section information for Channel L_E117-3
       ======================================================
        Cross-Section ID (from X1 card) :     4.0 Channel sequence number :     4

 Left Overbank Length   :     42.0 ft               Maximum Elevation         :   109.80 ft.
 Main Channel Length    :     42.0 ft               Maximum Depth             :    31.27 ft.
 Right Overbank Length  :     42.0 ft               Maximum Section Area      : 28954.22 ft^2
                                                    Maximum hydraulic radius :    11.71 ft.
 Manning N :      0.990  to Station        4152.0    Max topwidth              :  2453.13 ft.
   "    "  :      0.015  in main Channel             Maximum Wetted Perimeter : 2.47E+03 ft
   "    "  :      0.050  Beyond station    4413.9    Max left bank area        : 19132.34 ft^2
                                                    Max right bank area       :  4895.35 ft^2
 Allowable Encroachment Depth :    0.00 ft           Max center channel area   : 4926.527 ft^2

       Natural Cross-Section information for Channel L_E117-2
       ======================================================
        Cross-Section ID (from X1 card) :     5.0 Channel sequence number :     5

 Left Overbank Length   :     84.0 ft               Maximum Elevation         :   110.64 ft.
 Main Channel Length    :     84.0 ft               Maximum Depth             :    31.83 ft.
 Right Overbank Length  :     84.0 ft               Maximum Section Area      : 35173.85 ft^2
                                                    Maximum hydraulic radius :    16.78 ft.
 Manning N :      0.080  to Station        3492.1    Max topwidth              :  2083.10 ft.
   "    "  :      0.015  in main Channel             Maximum Wetted Perimeter : 2.10E+03 ft
   "    "  :      0.050  Beyond station    3581.5    Max left bank area        : 21875.50 ft^2
                                                    Max right bank area       : 10940.41 ft^2
 Allowable Encroachment Depth :    0.00 ft           Max center channel area   : 2357.947 ft^2

       Natural Cross-Section information for Channel L_E117-1
       ======================================================
        Cross-Section ID (from X1 card) :     6.0 Channel sequence number :     6

 Left Overbank Length   :    383.0 ft               Maximum Elevation         :   110.54 ft.
 Main Channel Length    :    293.0 ft               Maximum Depth             :    30.93 ft.
 Right Overbank Length  :    249.0 ft               Maximum Section Area      : 35727.93 ft^2
                                                    Maximum hydraulic radius :    16.71 ft.
 Manning N :      0.080  to Station        3491.4    Max topwidth              :  2117.72 ft.
   "    "  :      0.040  in main Channel             Maximum Wetted Perimeter : 2.14E+03 ft
   "    "  :      0.050  Beyond station    3575.2    Max left bank area        : 22333.26 ft^2
                                                    Max right bank area       : 11269.50 ft^2
 Allowable Encroachment Depth :    0.00 ft           Max center channel area   : 2125.160 ft^2

       Natural Cross-Section information for Channel L_E117-OUT
       ========================================================
        Cross-Section ID (from X1 card) :     7.0 Channel sequence number :     7

 Left Overbank Length   :     35.0 ft               Maximum Elevation         :   110.36 ft.
 Main Channel Length    :     35.0 ft               Maximum Depth             :    31.86 ft.
 Right Overbank Length  :     35.0 ft               Maximum Section Area      : 43367.12 ft^2
                                                    Maximum hydraulic radius :    16.10 ft.
 Manning N :      0.990  to Station        4974.5    Max topwidth              :  2655.79 ft.
   "    "  :      0.015  in main Channel             Maximum Wetted Perimeter : 2.69E+03 ft
   "    "  :      0.050  Beyond station    5025.5    Max left bank area        : 28182.98 ft^2
                                                    Max right bank area       : 13559.28 ft^2
 Allowable Encroachment Depth :    0.00 ft           Max center channel area   : 1624.860 ft^2

*================================================*
|          Table E1 - Conduit Data               |
*================================================*
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Inp Num	Conduit Name	Length (ft)	Conduit Class	Area (ft^2)	Manning Coef.	Max Width (ft)	Depth (ft)	Trapezoid Side Slopes
1	L_DI-12A	65.0000	Circular	3.1416	0.0130	2.0000	2.0000	
2	L_MHI-38	285.0000	Circular	4.9087	0.0130	2.5000	2.5000	
3	L_CI-54D	50.0000	Circular	1.7671	0.0130	1.5000	1.5000	
4	L_CI-56B	51.0000	Circular	1.7671	0.0130	1.5000	1.5000	
5	L_CI-54C	155.0000	Circular	1.7671	0.0130	1.5000	1.5000	
6	L_CI-54A	50.0000	Circular	1.7671	0.0130	1.5000	1.5000	
7	L_CI-54B	250.0000	Circular	3.1416	0.0130	2.0000	2.0000	
8	L_MHI-36A	53.0000	Circular	1.7671	0.0130	1.5000	1.5000	
9	Link681	79.0000	Circular	44.1786	0.0130	7.5000	7.5000	
10	L_CI-36	251.0000	Circular	4.9087	0.0130	2.5000	2.5000	
11	L_CI-37	64.0000	Circular	4.9087	0.0130	2.5000	2.5000	
12	L_CI-34	250.0000	Circular	4.9087	0.0130	2.5000	2.5000	
13	L_CI-35	57.0000	Circular	4.9087	0.0130	2.5000	2.5000	
14	L_MHI-21	155.0000	Circular	4.9087	0.0130	2.5000	2.5000	
15	L_MHI-22	250.0000	Circular	9.6211	0.0130	3.5000	3.5000	
16	L_CI-38	50.0000	Circular	4.9087	0.0130	2.5000	2.5000	
17	L_MHI-23	170.0000	Circular	4.9087	0.0130	2.5000	2.5000	
18	L_CI-39	66.0000	Circular	4.9087	0.0130	2.5000	2.5000	
19	L_CI-40	50.0000	Circular	1.7671	0.0130	1.5000	1.5000	
20	L_MHI-24	324.0000	Circular	15.9043	0.0130	4.5000	4.5000	
21	L_JCT-40	176.0000	Circular	15.9043	0.0130	4.5000	4.5000	
22	L_DI-6	77.0000	Circular	4.9087	0.0130	2.5000	2.5000	
23	L_CI-43	83.0000	Circular	4.9087	0.0130	2.5000	2.5000	
24	L_DI-7	116.0000	Circular	3.1416	0.0130	2.0000	2.0000	
25	L_DI-5	48.0000	Circular	3.1416	0.0130	2.0000	2.0000	
26	L_CI-41	281.0000	Circular	4.9087	0.0130	2.5000	2.5000	
27	L_DI-8	113.0000	Circular	3.1416	0.0130	2.0000	2.0000	
28	L_CI-42	53.0000	Circular	7.0686	0.0130	3.0000	3.0000	
29	L_MHI-25	164.0000	Circular	7.0686	0.0130	3.0000	3.0000	
30	L_MHI-26	195.0000	Circular	28.2743	0.0130	6.0000	6.0000	
31	L_MH-6	143.0000	Circular	28.2743	0.0130	6.0000	6.0000	
32	L_DI-9	125.0000	Circular	3.1416	0.0130	2.0000	2.0000	
33	L_CI-44	56.0000	Circular	3.1416	0.0130	2.0000	2.0000	
34	L_DI-10	50.0000	Circular	3.1416	0.0130	2.0000	2.0000	
35	L_CI-45	76.0000	Circular	3.1416	0.0130	2.0000	2.0000	
36	L_DI-11	90.0000	Circular	4.9087	0.0130	2.5000	2.5000	
37	L_MHI-27	161.0000	Circular	7.0686	0.0130	3.0000	3.0000	
38	L_MHI-28	235.0000	Circular	33.1831	0.0130	6.5000	6.5000	
39	L_DI-12	52.0000	Circular	4.9087	0.0130	2.5000	2.5000	
40	L_CI-46	54.0000	Circular	4.9087	0.0130	2.5000	2.5000	
41	L_CI-47	91.0000	Circular	1.7671	0.0130	1.5000	1.5000	
42	L_MHI-29	161.0000	Circular	1.7671	0.0130	1.5000	1.5000	
43	L_MHI-30	301.0000	Circular	38.4845	0.0130	7.0000	7.0000	
44	L_CI-48	65.0000	Circular	1.7671	0.0130	1.5000	1.5000	
45	L_CI-49	86.0000	Circular	1.7671	0.0130	1.5000	1.5000	
46	L_MHI-31	170.0000	Circular	3.1416	0.0130	2.0000	2.0000	
47	L_MHI-32	230.0000	Circular	38.4845	0.0130	7.0000	7.0000	
48	L_CI-50	54.0000	Circular	4.9087	0.0130	2.5000	2.5000	
49	L_CI-51	51.0000	Circular	1.7671	0.0130	1.5000	1.5000	
50	L_MHI-33	171.0000	Circular	3.1416	0.0130	2.0000	2.0000	
51	L_MHI-34	300.0000	Circular	38.4845	0.0130	7.0000	7.0000	
52	L_CI-52	46.0000	Circular	1.7671	0.0130	1.5000	1.5000	
53	L_CI-53	56.0000	Circular	1.7671	0.0130	1.5000	1.5000	
54	L_CI-54	51.0000	Circular	1.7671	0.0130	1.5000	1.5000	

55	L_MHI-35	207.0000	Circular	3.1416	0.0130	2.0000	2.0000	
56	L_MHI-36	400.0000	Circular	44.1786	0.0130	7.5000	7.5000	
57	L_CI-55	151.0000	Circular	1.7671	0.0130	1.5000	1.5000	
58	L_CI-56A	49.0000	Circular	3.1416	0.0130	2.0000	2.0000	
59	L_MHI-37	139.0000	Circular	44.1786	0.0130	7.5000	7.5000	
60	Link713	102.0000	Circular	38.4845	0.0130	7.0000	7.0000	
61	L_E117-6	72.0000	Natural	22817.916	0.0150	2457.3430	24.0300	
62	L_E117-5	47.0000	Natural	21491.315	0.0150	2428.8750	24.0300	
63	L_E117-4	263.0000	Natural	27247.441	0.0150	2479.6670	31.0500	
64	L_E117-3	42.0000	Natural	28954.216	0.0150	2453.1320	31.2700	
65	L_E117-2	84.0000	Natural	35173.852	0.0150	2083.1040	31.8300	
66	L_E117-1	293.0000	Natural	35727.927	0.0400	2117.7250	30.9300	
67	L_CI-57	95.0000	Circular	1.7671	0.0130	1.5000	1.5000	
68	L_CI-58	222.0000	Circular	12.5664	0.0130	4.0000	4.0000	
69	L_MH-7	97.0000	Circular	12.5664	0.0130	4.0000	4.0000	
70	L_CI-59	74.0000	Circular	1.7671	0.0130	1.5000	1.5000	
71	L_CI-65	50.0000	Circular	4.9087	0.0130	2.5000	2.5000	
72	L_MHI-39	181.0000	Circular	7.0686	0.0130	3.0000	3.0000	
73	L_MHI-40	24.0000	Circular	7.0686	0.0130	3.0000	3.0000	
74	L_CI-66	29.0000	Circular	1.7671	0.0130	1.5000	1.5000	
75	L_MH-11	529.0000	Circular	7.0686	0.0130	3.0000	3.0000	
76	L_CI-60	198.0000	Circular	1.7671	0.0130	1.5000	1.5000	
77	L_CI-61	129.0000	Circular	3.1416	0.0130	2.0000	2.0000	
78	L_CI-62	29.0000	Circular	3.1416	0.0130	2.0000	2.0000	
79	L_CI-63	106.0000	Circular	1.7671	0.0130	1.5000	1.5000	
80	L_CI-64	46.0000	Circular	3.1416	0.0130	2.0000	2.0000	
81	L_MH-10	161.0000	Circular	12.5664	0.0130	4.0000	4.0000	
82	L_MH-8	164.0000	Circular	23.7583	0.0130	5.5000	5.5000	
83	L_CI-59A	36.0000	Circular	1.7671	0.0130	1.5000	1.5000	
84	L_CI-62A	40.0000	Circular	1.7671	0.0130	1.5000	1.5000	
85	Link709	25.0000	Circular	3.1416	0.0130	2.0000	2.0000	
86	Link710	207.0000	Circular	3.1416	0.0130	2.0000	2.0000	
87	Link711	35.0000	Circular	12.5664	0.0130	4.0000	4.0000	
88	L_DI-12D	54.0000	Circular	3.1416	0.0130	2.0000	2.0000	
89	L_DI-12C	86.0000	Circular	7.0686	0.0130	3.0000	3.0000	
90	Link732	21.0000	Circular	44.1786	0.0130	7.5000	7.5000	
91	L_DI-12C2	240.0000	Circular	1.7671	0.0130	1.5000	1.5000	
92	L_DI-12D2	280.0000	Circular	1.7671	0.0130	1.5000	1.5000	
93	L_E117-OUT	35.0000	Natural	43367.120	0.0150	2655.7880	31.8600	
94	L_GES-1	238.0000	Circular	12.5664	0.0130	4.0000	4.0000	
95	L_GES-2	240.0000	Circular	12.5664	0.0130	4.0000	4.0000	
96	L_GES-3	668.0000	Circular	15.9043	0.0130	4.5000	4.5000	
97	L_GES-4	22.0000	Circular	15.9043	0.0230	4.5000	4.5000	

Total length of all conduits .... 13116.0000 feet

Table E2 - Conduit Factor Data

Conduit Name	Number of Barrels	Entrance Loss Coef	Exit Loss Coef	Exp/Contc Coefficnt	Time Weighting Parameter	Low Flow Roughness Factor	Depth at Which n Changes	Flow Routing
L_MHI-38	1.0000	0.0000	0.5000	0.0000	0.8500	1.0000	0.0000	Standard - Dynamic Wave
L_CI-54C	1.0000	0.0000	0.5000	0.0000	0.8500	1.0000	0.0000	Standard - Dynamic Wave
L_CI-54B	1.0000	0.0000	0.5000	0.0000	0.8500	1.0000	0.0000	Standard - Dynamic Wave
L_CI-38	1.0000	0.0000	0.0000	0.0000	0.8500	1.0000	0.0000	Standard - Dynamic Wave
L_MH-8	1.0000	0.0000	0.5000	0.0000	0.8500	1.0000	0.0000	Standard - Dynamic Wave
L_DI-12D	1.0000	0.0000	0.5000	0.0000	0.8500	1.0000	0.0000	Standard - Dynamic Wave
Link732	1.0000	0.0000	0.5000	0.0000	0.8500	1.0000	0.0000	Standard - Dynamic Wave

If there are messages about (sqrt(g*d)*dt/dx), or the sqrt(wave celerity)*time step/conduit length in the output file all it means is that the program will lower the internal time step to satisfy this condition (explicit condition). You control the actual internal time step by using the minimum courant time step factor in the HYDRAULICS job control. The message put in words states that the smallest conduit with the fastest velocity will control the time step selection. You have further control by using the modify conduit option in the HYDRAULICS Job Control.

Conduit Name	Courant Ratio
L_DI-12A	0.12
L_MHI-38	0.03
L_CI-54D	0.14
L_CI-56B	0.14
L_CI-54C	0.04
L_CI-54A	0.14
L_CI-54B	0.03
L_MHI-36A	0.13
Link681	0.20
L_CI-36	0.04
L_CI-37	0.14
L_CI-34	0.04
L_CI-35	0.16
L_MHI-21	0.06
L_MHI-22	0.04
L_CI-38	0.18
L_MHI-23	0.05
L_CI-39	0.14
L_CI-40	0.14
L_MHI-24	0.04
L_JCT-40	0.07
L_DI-6	0.12
L_CI-43	0.11
L_DI-7	0.07
L_DI-5	0.17
L_CI-41	0.03
L_DI-8	0.07
L_CI-42	0.19
L_MHI-25	0.06
L_MHI-26	0.07
L_MH-6	0.10
L_DI-9	0.06
L_CI-44	0.14
L_DI-10	0.16
L_CI-45	0.11
L_DI-11	0.10
L_MHI-27	0.06
L_MHI-28	0.06
L_DI-12	0.17
L_CI-46	0.17
L_CI-47	0.08
L_MHI-29	0.04
L_MHI-30	0.05
L_CI-48	0.11
L_CI-49	0.08
L_MHI-31	0.05
L_MHI-32	0.07
L_CI-50	0.17

L_CI-51	0.14
L_MHI-33	0.05
L_MHI-34	0.05
L_CI-52	0.15
L_CI-53	0.12
L_CI-54	0.14
L_MHI-35	0.04
L_MHI-36	0.04
L_CI-55	0.05
L_CI-56A	0.16
L_MHI-37	0.11
Link713	0.15
L_E117-6	0.14
L_E117-5	0.20
L_E117-4	0.07
L_E117-3	0.43
L_E117-2	0.12
L_E117-1	0.04
L_CI-57	0.07
L_CI-58	0.05
L_MH-7	0.12
L_CI-59	0.09
L_CI-65	0.18
L_MHI-39	0.05
L_MHI-40	0.41
L_CI-66	0.24
L_MH-11	0.02
L_CI-60	0.04
L_CI-61	0.06
L_CI-62	0.28
L_CI-63	0.07
L_CI-64	0.17
L_MH-10	0.07
L_MH-8	0.08
L_CI-59A	0.19
L_CI-62A	0.17
Link709	0.32
Link710	0.04
Link711	0.32
L_DI-12D	0.15
L_DI-12C	0.11
Link732	0.74
L_DI-12C2	0.03
L_DI-12D2	0.02
L_E117-OUT	0.25
L_GES-1	0.05
L_GES-2	0.05
L_GES-3	0.02
L_GES-4	0.55

==================
| Conduit Volume |
==================

Full pipe or full open conduit volume
Input full depth volume..... 2.6124E+07 cubic feet

===> Warning !! The upstream and downstream junctions for the following conduits
have been reversed to correspond to the positive flow and decreasing
slope convention. A negative flow in the output thus means
the flow was from your original upstream junction to your original
downstream junction. Any initial flow has been multiplied by -1.

1. Conduit #...L_E117-3 has been changed.
2. Conduit #...L_E117-2 has been changed.

==
| Table E3a - Junction Data |
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Inp Num	Junction Name	Ground Elevation	Crown Elevation	Invert Elevation	Qinst cfs	Initial Depth-ft	Interface Flow (%)
1	CI-54D	92.3600	92.3600	88.0900	0.0000	0.0000	100.0000
2	CI-54C	92.8500	92.8500	88.0400	0.0000	0.0000	100.0000
3	DI-12A	91.5000	91.5000	87.0000	0.0000	0.0000	100.0000
4	MHI-38	92.2500	92.2500	86.3700	0.0000	0.0000	100.0000
5	MHI-38X	115.4400	102.6200	78.5900	0.0000	0.0000	100.0000
6	CI-54BX	115.4400	102.7200	78.6900	0.0000	0.0000	100.0000
7	CI-54A	92.5300	92.5300	87.7100	0.0000	0.0000	100.0000
8	CI-54B	92.4900	92.4900	87.1600	0.0000	0.0000	100.0000
9	CI-56B	92.4000	92.4000	85.1600	0.0000	0.0000	100.0000
10	JCT-56B	92.5000	88.8600	81.3600	0.0000	0.0000	100.0000
11	MHI-36A	92.5600	92.5600	87.7100	0.0000	0.0000	100.0000
12	MHI-56X	112.4400	111.4400	79.6100	0.0000	0.0000	100.0000
13	MHI-23	96.5000	96.5000	90.6300	0.0000	0.0000	100.0000
14	CI-56A	92.7700	92.7700	87.1600	0.0000	0.0000	100.0000
15	CI-55	93.1400	93.1400	87.9200	0.0000	0.0000	100.0000
16	MHI-37	92.5400	92.5400	81.5700	0.0000	0.0000	100.0000
17	MHI-37X	112.4400	110.6400	78.8100	0.0000	0.0000	100.0000
18	MHI-36	92.5400	92.5400	82.0500	0.0000	0.0000	100.0000
19	CI-53	93.2200	93.2200	88.6600	0.0000	0.0000	100.0000
20	MHI-35	92.4000	92.4000	88.3600	0.0000	0.0000	100.0000
21	CI-54	93.2200	93.2200	88.9700	0.0000	0.0000	100.0000
22	CI-46	95.0500	95.0500	88.8400	0.0000	0.0000	100.0000
23	DI-12	92.3000	92.3000	88.9500	0.0000	0.0000	100.0000
24	MHI-30	97.4700	97.4700	84.2200	0.0000	0.0000	100.0000
25	MHI-32	94.1200	94.1200	83.8900	0.0000	0.0000	100.0000
26	CI-48	94.4200	94.4200	89.4600	0.0000	0.0000	100.0000
27	CI-50	93.7700	93.7700	88.1700	0.0000	0.0000	100.0000
28	CI-52	93.4200	93.4200	87.5200	0.0000	0.0000	100.0000
29	MHI-34	93.5400	93.5400	83.6100	0.0000	0.0000	100.0000
30	JCT-52	93.5400	90.4679	83.4679	0.0000	0.0000	100.0000
31	MHI-33	92.8200	92.8200	88.8700	0.0000	0.0000	100.0000
32	CI-51	93.7700	93.7700	89.4800	0.0000	0.0000	100.0000
33	MHI-31	93.3100	93.3100	89.1500	0.0000	0.0000	100.0000
34	CI-49	94.5200	94.5200	89.8400	0.0000	0.0000	100.0000
35	MHI-29	94.0900	94.0900	89.9900	0.0000	0.0000	100.0000
36	CI-47	95.2300	95.2300	90.0800	0.0000	0.0000	100.0000
37	CI-44	95.6900	95.6900	89.5900	0.0000	0.0000	100.0000
38	DI-9	92.5000	92.5000	89.7300	0.0000	0.0000	100.0000
39	MHI-28	95.4700	95.4700	85.0100	0.0000	0.0000	100.0000
40	MHI-27	94.6700	94.6700	88.7700	0.0000	0.0000	100.0000
41	DI-11	94.0000	94.0000	89.3700	0.0000	0.0000	100.0000
42	DI-10	93.5000	93.5000	89.9200	0.0000	0.0000	100.0000
43	MHI-26	96.3000	96.3000	85.9300	0.0000	0.0000	100.0000
44	MHI-25	95.5100	95.5100	89.1900	0.0000	0.0000	100.0000
45	MH-6	98.0000	91.6800	85.6800	0.0000	0.0000	100.0000
46	DI-7	94.3000	94.3000	90.0600	0.0000	0.0000	100.0000
47	DI-6	94.1000	94.1000	89.7000	0.0000	0.0000	100.0000
48	DI-8	95.0000	95.0000	90.3700	0.0000	0.0000	100.0000
49	DI-5	95.0000	95.0000	90.6800	0.0000	0.0000	100.0000
50	CI-43	96.6800	96.6800	89.5700	0.0000	0.0000	100.0000
51	CI-42	96.5000	96.5000	89.2500	0.0000	0.0000	100.0000
52	CI-41	97.0500	97.0500	90.0600	0.0000	0.0000	100.0000
53	CI-40	97.2200	97.2200	90.1300	0.0000	0.0000	100.0000
54	CI-38	97.7700	97.7700	90.4000	0.0000	0.0000	100.0000

55	CI-37	98.4000	98.4000	91.0000	0.0000	0.0000	100.0000
56	CI-36	99.0200	99.0200	91.3800	0.0000	0.0000	100.0000
57	MHI-24	97.5500	97.5500	88.3400	0.0000	0.0000	100.0000
58	MHI-22	97.8000	97.8000	89.8700	0.0000	0.0000	100.0000
59	JCT-40	95.4200	92.2500	87.7500	0.0000	0.0000	100.0000
60	CI-39	97.5500	97.5500	90.7100	0.0000	0.0000	100.0000
61	CI-35	98.4000	98.4000	91.4200	0.0000	0.0000	100.0000
62	CI-34	99.2200	99.2200	91.7500	0.0000	0.0000	100.0000
63	MHI-21	97.2500	97.2500	91.3000	0.0000	0.0000	100.0000
64	CI-45	95.8500	95.8500	89.8700	0.0000	0.0000	100.0000
65	E117-4	115.4400	109.6400	78.5900	0.0000	0.0000	100.0000
66	AA-OUT1	110.4800	110.4800	78.6200	0.0000	0.0000	100.0000
67	E117-3	112.4400	109.8000	78.5300	0.0000	0.0000	100.0000
68	CI-66	93.0500	93.0500	88.0000	0.0000	0.0000	100.0000
69	MH-11	93.5000	89.4500	84.6400	0.0000	0.0000	100.0000
70	CI-60	92.6200	92.6200	87.8300	0.0000	0.0000	100.0000
71	CI-62	91.8700	91.8700	87.0000	0.0000	0.0000	100.0000
72	CI-61	92.1500	92.1500	87.1300	0.0000	0.0000	100.0000
73	MH-10	91.9200	88.9300	82.1100	0.0000	0.0000	100.0000
74	MH-10A	91.5500	88.7500	86.1100	0.0000	0.0000	100.0000
75	CI-62A	92.2000	92.2000	87.3300	0.0000	0.0000	100.0000
76	MH-7A	93.4000	88.7600	83.0000	0.0000	0.0000	100.0000
77	MH-8	91.8000	87.7300	80.2900	0.0000	0.0000	100.0000
78	CI-59	91.8900	91.8900	86.3800	0.0000	0.0000	100.0000
79	CI-59A	92.2000	92.2000	87.3300	0.0000	0.0000	100.0000
80	MH-7	92.5000	86.9300	82.9300	0.0000	0.0000	100.0000
81	CI-58	92.4000	92.4000	83.5600	0.0000	0.0000	100.0000
82	CI-57	92.6400	92.6400	87.3900	0.0000	0.0000	100.0000
83	MH-9	92.3000	88.5700	86.5700	0.0000	0.0000	100.0000
84	CI-65	93.5300	93.5300	86.0300	0.0000	0.0000	100.0000
85	MHI-40	92.2300	92.2300	84.7500	0.0000	0.0000	100.0000
86	MHI-39	92.3300	92.3300	85.4700	0.0000	0.0000	100.0000
87	CI-64	92.1500	92.1500	86.6500	0.0000	0.0000	100.0000
88	CI-63	92.5000	92.5000	87.4600	0.0000	0.0000	100.0000
89	DI-12C	91.5300	91.5300	81.4900	0.0000	0.0000	100.0000
90	DI-12D	92.3600	92.3600	88.5600	0.0000	0.0000	100.0000
91	JCT-12C	93.0000	88.7500	81.2500	0.0000	0.0000	100.0000
92	DI-12C2	94.0000	94.0000	89.4200	0.0000	0.0000	100.0000
93	DI-12D2	93.5000	93.5000	90.1000	0.0000	0.0000	100.0000
94	E117-OUT	110.3600	110.3600	78.5000	0.0000	0.0000	100.0000
95	GES-1	93.5000	93.5000	81.8700	0.0000	0.0000	100.0000
96	GES-2	93.5000	93.5000	81.4000	0.0000	0.0000	100.0000
97	GES-4	90.8000	90.8000	79.4700	0.0000	0.0000	100.0000
98	GES-3	93.0000	93.0000	80.4100	0.0000	0.0000	100.0000

Table E3b - Junction Data

Inp Num	Junction Name	X Coord.	Y Coord.	Type of Manhole	Type of Inlet	Maximum Capacity	Pavement Shape	Pavement Slope
1	CI-54D	6502.9099	-566.8357	F	Normal		0	0.0000
2	CI-54C	6297.0901	-572.6475	F	Normal		0	0.0000
3	DI-12A	6500.0000	-400.0000	F	Normal		0	0.0000
4	MHI-38	6300.0000	-400.0000	F	Normal		0	0.0000
5	MHI-38X	6011.6397	-411.6236	No P	Normal		0	0.0000
6	CI-54BX	5923.9961	-605.1328	No P	Normal		0	0.0000
7	CI-54A	5600.0000	-610.4242	F	Normal		0	0.0000
8	CI-54B	5700.0000	-610.4242	F	Normal		0	0.0000
9	CI-56B	6000.0000	200.0000	F	Normal		0	0.0000
10	JCT-56B	6000.9043	-1.8765		Normal		0	0.0000
11	MHI-36A	5700.0000	-400.0000	F	Normal		0	0.0000
12	MHI-56X	6400.0000	200.0000	No P	Normal		0	0.0000
13	MHI-23	3600.0000	-400.0000	F	Normal		0	0.0000
14	CI-56A	5900.0000	200.0000	F	Normal		0	0.0000
15	CI-55	5800.0000	200.0000	F	Normal		0	0.0000
16	MHI-37	5900.0000	0.0000	F	Normal		0	0.0000
17	MHI-37X	6300.0000	0.0000	No P	Normal		0	0.0000
18	MHI-36	5600.0000	0.0000	F	Normal		0	0.0000
19	CI-53	5600.0000	200.0000	F	Normal		0	0.0000
20	MHI-35	5500.0000	-400.0000	F	Normal		0	0.0000
21	CI-54	5500.0000	-601.7065	F	Normal		0	0.0000
22	CI-46	4700.0000	181.3652	F	Normal		0	0.0000
23	DI-12	4708.7297	262.4768	F	Normal		0	0.0000
24	MHI-30	4700.0000	0.0000	F	Normal		0	0.0000
25	MHI-32	4900.0000	0.0000	F	Normal		0	0.0000
26	CI-48	4900.0000	200.0000	F	Normal		0	0.0000
27	CI-50	5200.0000	200.0000	F	Normal		0	0.0000
28	CI-52	5400.0000	200.0000	F	Normal		0	0.0000
29	MHI-34	5200.0000	0.0000	F	Normal		0	0.0000
30	JCT-52	5400.0000	0.0000		Normal		0	0.0000
31	MHI-33	5200.0000	-400.0000	F	Normal		0	0.0000
32	CI-51	5200.0000	-600.0000	F	Normal		0	0.0000
33	MHI-31	4900.0000	-400.0000	F	Normal		0	0.0000
34	CI-49	4900.0000	-600.0000	F	Normal		0	0.0000
35	MHI-29	4700.0000	-400.0000	F	Normal		0	0.0000
36	CI-47	4700.0000	-600.0000	F	Normal		0	0.0000
37	CI-44	4400.0000	200.0000	F	Normal		0	0.0000
38	DI-9	4474.8737	272.6475	F	Normal		0	0.0000
39	MHI-28	4400.0000	0.0000	F	Normal		0	0.0000
40	MHI-27	4400.0000	-400.0000	F	Normal		0	0.0000
41	DI-11	4397.0901	-678.4593	F	Normal		0	0.0000
42	DI-10	4200.0000	-742.3891	F	Normal		0	0.0000
43	MHI-26	4000.0000	0.0000	F	Normal		0	0.0000
44	MHI-25	4000.0000	-400.0000	F	Normal		0	0.0000
45	MH-6	4200.0000	0.0000		Normal		0	0.0000
46	DI-7	4130.1621	282.8181	F	Normal		0	0.0000
47	DI-6	4054.8963	287.1770	F	Normal		0	0.0000
48	DI-8	4001.8470	-745.8021	F	Normal		0	0.0000
49	DI-5	3798.9371	-739.4832	F	Normal		0	0.0000
50	CI-43	4000.0000	200.0000	F	Normal		0	0.0000
51	CI-42	4000.0000	-600.0000	F	Normal		0	0.0000
52	CI-41	3800.0000	-600.0000	F	Normal		0	0.0000
53	CI-40	3800.0000	200.0000	F	Normal		0	0.0000
54	CI-38	3600.0000	200.0000	F	Normal		0	0.0000
55	CI-37	3300.0000	200.0000	F	Normal		0	0.0000
56	CI-36	3100.0000	200.0000	F	Normal		0	0.0000
57	MHI-24	3600.0000	0.0000	F	Normal		0	0.0000
58	MHI-22	3300.0000	0.0000	F	Normal		0	0.0000
59	JCT-40	3800.0000	0.0000		Normal		0	0.0000
60	CI-39	3600.0000	-600.0000	F	Normal		0	0.0000
61	CI-35	3300.0000	-600.0000	F	Normal		0	0.0000
62	CI-34	3100.0000	-600.0000	F	Normal		0	0.0000
63	MHI-21	3300.0000	-400.0000	F	Normal		0	0.0000
64	CI-45	4202.9099	-600.5071	F	Normal		0	0.0000
65	E117-4	6100.0000	-300.0000	No P	Normal		0	0.0000
66	AA-OUT1	6768.9653	334.4514	No P	Normal		0	0.0000
67	E117-3	6200.0000	-100.0000	No P	Normal		0	0.0000
68	CI-66	7505.2048	44.0023	F	Normal		0	0.0000
69	MH-11	7505.2048	-5.9977		Normal		0	0.0000
70	CI-60	7305.2048	44.0023	F	Normal		0	0.0000
71	CI-62	7005.2048	44.0023	F	Normal		0	0.0000
72	CI-61	7155.2048	44.0023	F	Normal		0	0.0000
73	MH-10	7005.2048	-5.9977		Normal		0	0.0000
74	MH-10A	7005.2048	-55.9977		Normal		0	0.0000
75	CI-62A	6955.2048	-55.9977	F	Normal		0	0.0000

76	MH-7A	6803.1880	-99.1472			Normal	0	0.0000
77	MH-8	6805.2048	-5.9977			Normal	0	0.0000
78	CI-59	6718.9301	-4.0911		F	Normal	0	0.0000
79	CI-59A	6851.8120	-103.9227		F	Normal	0	0.0000
80	MH-7	6805.2048	-55.9977			Normal	0	0.0000
81	CI-58	6800.0000	-501.1073		F	Normal	0	0.0000
82	CI-57	6721.7305	-500.0000		F	Normal	0	0.0000
83	MH-9	7005.2048	-500.0000			Normal	0	0.0000
84	CI-65	7505.2048	-500.0000		F	Normal	0	0.0000
85	MHI-40	7505.2048	-55.9977		F	Normal	0	0.0000
86	MHI-39	7505.2048	-400.0000		F	Normal	0	0.0000
87	CI-64	7105.2048	-500.0000		F	Normal	0	0.0000
88	CI-63	7205.2048	-500.0000		F	Normal	0	0.0000
89	DI-12C	6200.0000	200.0000		F	Normal	0	0.0000
90	DI-12D	6300.0000	200.0000		F	Normal	0	0.0000
91	JCT-12C	6200.0000	0.0000			Normal	0	0.0000
92	DI-12C2	6200.0000	400.0000		F	Normal	0	0.0000
93	DI-12D2	6300.0000	400.0000		F	Normal	0	0.0000
94	E117-OUT	6852.0346	336.2481	No	P	Normal	0	0.0000
95	GES-1	6900.0000	-900.0000		F	Normal	0	0.0000
96	GES-2	6898.0781	-647.9802		F	Normal	0	0.0000
97	GES-4	5974.9524	-653.7378		F	Normal	0	0.0000
98	GES-3	6600.0000	-647.9802		F	Normal	0	0.0000

Table E4 - Conduit Connectivity

Input Number	Conduit Name	Upstream Node	Downstream Node	Upstream Elevation	Downstream Elevation	
1	L_DI-12A	DI-12A	MHI-38	87.0000	86.8700	No Design
2	L_MHI-38	MHI-38	MHI-38X	86.3700	85.7100	No Design
3	L_CI-54D	CI-54D	CI-54C	88.0900	88.0400	No Design
4	L_CI-56B	CI-56B	JCT-56B	85.1600	85.1100	No Design
5	L_CI-54C	CI-54C	CI-54BX	88.0400	87.5400	No Design
6	L_CI-54A	CI-54A	CI-54B	87.7100	87.6600	No Design
7	L_CI-54B	CI-54B	CI-54BX	87.1600	86.8100	No Design
8	L_MHI-36A	MHI-36A	CI-54B	87.7100	87.6600	No Design
9	Link681	JCT-56B	JCT-12C	81.3600	81.2500	No Design
10	L_CI-36	CI-36	CI-37	91.3800	91.0000	No Design
11	L_CI-37	CI-37	MHI-22	91.0000	90.8700	No Design
12	L_CI-34	CI-34	CI-35	91.7500	91.4200	No Design
13	L_CI-35	CI-35	MHI-21	91.4200	91.3000	No Design
14	L_MHI-21	MHI-21	MHI-22	91.3000	90.8700	No Design
15	L_MHI-22	MHI-22	MHI-24	89.8700	89.3400	No Design
16	L_CI-38	CI-38	MHI-24	90.4000	90.3400	No Design
17	L_MHI-23	MHI-23	MHI-24	90.6300	90.3400	No Design
18	L_CI-39	CI-39	MHI-23	90.7100	90.6300	No Design
19	L_CI-40	CI-40	JCT-40	90.1300	90.0200	No Design
20	L_MHI-24	MHI-24	JCT-40	88.3400	87.7500	No Design
21	L_JCT-40	JCT-40	MHI-26	87.7500	87.4300	No Design
22	L_DI-6	DI-6	CI-43	89.7000	89.5700	No Design
23	L_CI-43	CI-43	MHI-26	89.5700	87.4300	No Design
24	L_DI-7	DI-7	MHI-26	90.0600	89.9300	No Design
25	L_DI-5	DI-5	CI-41	90.6800	90.5600	No Design
26	L_CI-41	CI-41	CI-42	90.0600	89.7500	No Design
27	L_DI-8	DI-8	CI-42	90.3700	90.2500	No Design
28	L_CI-42	CI-42	MHI-25	89.2500	89.1900	No Design
29	L_MHI-25	MHI-25	MHI-26	89.1900	88.9300	No Design
30	L_MHI-26	MHI-26	MH-6	85.9300	85.6800	No Design
31	L_MH-6	MH-6	MHI-28	85.6800	85.5100	No Design
32	L_DI-9	DI-9	CI-44	89.7300	89.5900	No Design
33	L_CI-44	CI-44	MHI-28	89.5900	89.5100	No Design
34	L_DI-10	DI-10	CI-45	89.9200	89.8700	No Design
35	L_CI-45	CI-45	MHI-27	89.8700	89.7700	No Design
36	L_DI-11	DI-11	MHI-27	89.3700	89.2700	No Design
37	L_MHI-27	MHI-27	MHI-28	88.7700	88.5100	No Design
38	L_MHI-28	MHI-28	MHI-30	85.0100	84.7200	No Design
39	L_DI-12	DI-12	CI-46	88.9500	88.8400	No Design
40	L_CI-46	CI-46	MHI-30	88.8400	88.7200	No Design
41	L_CI-47	CI-47	MHI-29	90.0800	89.9900	No Design
42	L_MHI-29	MHI-29	MHI-30	89.9900	89.7200	No Design
43	L_MHI-30	MHI-30	MHI-32	84.2200	83.8900	No Design
44	L_CI-48	CI-48	MHI-32	89.4600	89.3900	No Design
45	L_CI-49	CI-49	MHI-31	89.8400	89.6500	No Design
46	L_MHI-31	MHI-31	MHI-32	89.1500	88.8900	No Design
47	L_MHI-32	MHI-32	MHI-34	83.8900	83.6100	No Design
48	L_CI-50	CI-50	MHI-34	88.1700	88.1100	No Design
49	L_CI-51	CI-51	MHI-33	89.4900	89.3700	No Design
50	L_MHI-33	MHI-33	MHI-34	88.8700	88.6100	No Design
51	L_MHI-34	JCT-52	MHI-36	83.4679	83.0500	No Design
52	L_CI-52	CI-52	JCT-52	87.5200	87.4699	No Design
53	L_CI-53	CI-53	MHI-36	88.6600	88.5500	No Design
54	L_CI-54	CI-54	MHI-35	88.9700	88.8600	No Design
55	L_MHI-35	MHI-35	MHI-36	88.3600	88.0500	No Design
56	L_MHI-36	MHI-36	MHI-37	82.0500	81.5700	No Design
57	L_CI-55	CI-55	CI-56A	87.9200	87.6600	No Design
58	L_CI-56A	CI-56A	MHI-37	87.1600	87.0700	No Design
59	L_MHI-37	MHI-37	JCT-56B	81.5700	81.3600	No Design
60	Link713	MHI-34	JCT-52	83.6100	83.4679	No Design
61	L_E117-6	CI-54BX	MHI-38X	78.6900	78.5900	No Design
62	L_E117-5	MHI-38X	E117-4	78.5900	78.5900	No Design
63	L_E117-4	E117-4	E117-3	78.5900	78.5300	No Design
64	L_E117-3	MHI-37X	E117-3	78.8100	78.5300	No Design
65	L_E117-2	MHI-56X	MHI-37X	79.6100	78.8100	No Design
66	L_E117-1	MHI-56X	AA-OUT1	79.6100	78.6200	No Design
67	L_CI-57	CI-57	CI-58	87.3900	87.1800	No Design
68	L_CI-58	CI-58	MH-7A	83.5600	83.0000	No Design
69	L_MH-7	MH-7	MH-8	82.9300	82.7200	No Design
70	L_CI-59	CI-59	MH-8	86.3800	86.2300	No Design
71	L_CI-65	CI-65	MHI-39	86.0300	85.9700	No Design
72	L_MHI-39	MHI-39	MHI-40	85.4700	85.2500	No Design
73	L_MHI-40	MHI-40	MH-11	84.7500	84.7000	No Design
74	L_CI-66	CI-66	MH-11	88.0000	87.9500	No Design
75	L_MH-11	MH-11	MH-10	84.6400	83.1100	No Design
76	L_CI-60	CI-60	CI-61	87.8300	87.6300	No Design
77	L_CI-61	CI-61	CI-62	87.1300	87.0000	No Design
78	L_CI-62	CI-62	MH-10	87.0000	86.9300	No Design
79	L_CI-63	CI-63	CI-64	87.4600	87.1500	No Design
80	L_CI-64	CI-64	MH-9	86.6500	86.5700	No Design
81	L_MH-10	MH-10	MH-8	82.1100	81.7900	No Design
82	L_MH-8	MH-8	AA-OUT1	80.2900	80.0000	No Design
83	L_CI-59A	CI-59A	MH-7A	87.3300	87.2600	No Design
84	L_CI-62A	CI-62A	MH-10A	87.3300	87.2500	No Design
85	Link709	MH-10A	MH-10	86.1100	86.0600	No Design
86	Link710	MH-9	MH-10A	86.5700	86.1100	No Design
87	Link711	MH-7A	MH-7	83.0000	82.9300	No Design
88	L_DI-12D	DI-12D	MHI-37X	88.5600	87.9100	No Design
89	L_DI-12C	DI-12C	JCT-12C	81.4900	81.2500	No Design
90	Link732	JCT-12C	MHI-37X	81.2500	81.2200	No Design
91	L_DI-12C2	DI-12C2	DI-12C	89.4200	88.9400	No Design
92	L_DI-12D2	DI-12D2	DI-12D	90.1000	89.5400	No Design
93	L_E117-OUT	AA-OUT1	E117-OUT	78.6200	78.5000	No Design
94	L_GES-1	GES-1	GES-2	81.8700	81.4000	No Design
95	L_GES-2	GES-2	GES-3	81.4000	80.9100	No Design
96	L_GES-3	GES-3	GES-4	80.4100	79.4700	No Design

97 L_GES-4 GES-4 CI-54BX 79.4700 78.8100 No Design

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| Storage Junction Data |
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STORAGE JUNCTION NUMBER OR NAME	JUNCTION TYPE	MAXIMUM OR CONSTANT SURFACE AREA (FT2)	PEAK OR CONSTANT VOLUME (CUBIC FEET)	CROWN ELEVATION (FT)	DEPTH STARTS FROM
CI-54B	Stage/Area	9452.5200	46249.4876	92.4900	Spill Crest
CI-56B	Stage/Area	9452.5200	64303.8008	92.4000	Spill Crest
DI-12	Stage/Area	36590.4000	38813.5547	92.3000	Spill Crest
DI-9	Stage/Area	17859.6000	15586.9754	92.5000	Spill Crest
DI-11	Stage/Area	60025.6800	165474.7659	94.0000	Spill Crest
DI-10	Stage/Area	17424.0000	35467.9111	93.5000	Spill Crest
DI-7	Stage/Area	21344.4000	54546.4519	94.3000	Spill Crest
DI-6	Stage/Area	123231.2400	397965.7554	94.1000	Spill Crest
DI-8	Stage/Area	9583.2000	38481.5062	95.0000	Spill Crest
DI-5	Stage/Area	129547.4400	380132.6157	95.0000	Spill Crest
CI-35	Stage/Area	50442.4800	326667.9233	98.4000	Spill Crest
CI-66	Stage/Area	24120.7184	104232.0038	93.0500	Spill Crest
CI-62	Stage/Area	9452.5200	41901.3284	91.8700	Spill Crest
CI-59	Stage/Area	9452.5200	47950.9412	91.8900	Spill Crest
CI-58	Stage/Area	9452.5200	79427.8328	92.4000	Spill Crest
CI-64	Stage/Area	9452.5200	47856.4160	92.1500	Spill Crest
DI-12C	Stage/Area	6229.0800	56355.8236	91.5300	Spill Crest
DI-12C2	Stage/Area	211370.5440	173694.8024	94.0000	Node Invert
DI-12D2	Stage/Area	41338.4400	23284.0334	93.5000	Node Invert

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| Variable storage data for node | CI-54B
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	87.1600	0.0000	4.3560	0.0000	0.0001	0.0000
2	87.1850	0.0250	150.8265	1.5068	0.0035	0.0000
3	87.2100	0.0500	297.2970	7.0058	0.0068	0.0002
4	87.2350	0.0750	443.7675	16.2082	0.0102	0.0004
5	87.2600	0.1000	590.2380	29.0898	0.0135	0.0007
6	87.2850	0.1250	736.7085	45.6428	0.0169	0.0010
7	87.3100	0.1500	883.1790	65.8638	0.0203	0.0015
8	87.3350	0.1750	1029.6495	89.7507	0.0236	0.0021
9	87.3600	0.2000	1176.1200	117.3026	0.0270	0.0027
10	87.3850	0.2250	1475.5950	150.3783	0.0339	0.0035
11	87.4100	0.2500	1775.0700	190.9540	0.0408	0.0044
12	87.4350	0.2750	2074.5450	239.0256	0.0476	0.0055
13	87.4600	0.3000	2374.0200	294.5906	0.0545	0.0068
14	87.4850	0.3250	2673.4950	357.6475	0.0614	0.0082
15	87.5100	0.3500	2972.9700	428.1952	0.0683	0.0098
16	87.5350	0.3750	3272.4450	506.2330	0.0751	0.0116
17	87.5600	0.4000	3571.9200	591.7602	0.0820	0.0136
18	87.5725	0.4125	3773.3850	637.6626	0.0866	0.0146
19	87.5850	0.4250	3974.8500	686.0836	0.0912	0.0158
20	87.5975	0.4375	4176.3150	737.0232	0.0959	0.0169
21	87.6100	0.4500	4377.7800	790.4814	0.1005	0.0181
22	87.6225	0.4625	4579.2450	846.4581	0.1051	0.0194
23	87.6350	0.4750	4780.7100	904.9533	0.1098	0.0208
24	87.6475	0.4875	4982.1750	965.9670	0.1144	0.0222
25	87.6600	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	87.6725	0.5125	5439.5550	1095.8877	0.1249	0.0252
27	87.6850	0.5250	5695.4700	1165.4755	0.1308	0.0268
28	87.6975	0.5375	5951.3850	1238.2625	0.1366	0.0284
29	87.7100	0.5500	6207.3000	1314.2486	0.1425	0.0302
30	87.7225	0.5625	6463.2150	1393.4340	0.1484	0.0320
31	87.7350	0.5750	6719.1300	1475.8184	0.1542	0.0339
32	87.7475	0.5875	6975.0450	1561.4020	0.1601	0.0358
33	87.7600	0.6000	7230.9600	1650.1848	0.1660	0.0379
34	87.7725	0.6125	7508.6550	1742.3019	0.1724	0.0400
35	87.7850	0.6250	7786.3500	1837.8905	0.1788	0.0422
36	87.7975	0.6375	8064.0450	1936.9504	0.1851	0.0445
37	87.8100	0.6500	8341.7400	2039.4816	0.1915	0.0468
38	87.8225	0.6625	8619.4350	2145.4842	0.1979	0.0493
39	87.8350	0.6750	8897.1300	2254.9582	0.2042	0.0518
40	87.8475	0.6875	9174.8250	2367.9034	0.2106	0.0544
41	87.8600	0.7000	9452.5200	2484.3200	0.2170	0.0570
42	92.4900	5.3300	9452.5200	46249.4876	0.2170	1.0617

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| Variable storage data for node | CI-56B
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	85.1600	0.0000	4.3560	0.0000	0.0001	0.0000
2	85.1850	0.0250	150.8265	1.5068	0.0035	0.0000
3	85.2100	0.0500	297.2970	7.0058	0.0068	0.0002
4	85.2350	0.0750	443.7675	16.2082	0.0102	0.0004
5	85.2600	0.1000	590.2380	29.0898	0.0135	0.0007
6	85.2850	0.1250	736.7085	45.6428	0.0169	0.0010
7	85.3100	0.1500	883.1790	65.8638	0.0203	0.0015
8	85.3350	0.1750	1029.6495	89.7507	0.0236	0.0021
9	85.3600	0.2000	1176.1200	117.3026	0.0270	0.0027
10	85.3850	0.2250	1475.5950	150.3783	0.0339	0.0035
11	85.4100	0.2500	1775.0700	190.9540	0.0408	0.0044
12	85.4350	0.2750	2074.5450	239.0256	0.0476	0.0055
13	85.4600	0.3000	2374.0200	294.5906	0.0545	0.0068
14	85.4850	0.3250	2673.4950	357.6475	0.0614	0.0082
15	85.5100	0.3500	2972.9700	428.1952	0.0683	0.0098
16	85.5350	0.3750	3272.4450	506.2330	0.0751	0.0116
17	85.5600	0.4000	3571.9200	591.7602	0.0820	0.0136
18	85.5725	0.4125	3773.3850	637.6626	0.0866	0.0146
19	85.5850	0.4250	3974.8500	686.0836	0.0912	0.0158
20	85.5975	0.4375	4176.3150	737.0232	0.0959	0.0169
21	85.6100	0.4500	4377.7800	790.4814	0.1005	0.0181
22	85.6225	0.4625	4579.2450	846.4581	0.1051	0.0194
23	85.6350	0.4750	4780.7100	904.9533	0.1098	0.0208
24	85.6475	0.4875	4982.1750	965.9670	0.1144	0.0222
25	85.6600	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	85.6725	0.5125	5439.5550	1095.8877	0.1249	0.0252
27	85.6850	0.5250	5695.4700	1165.4755	0.1308	0.0268
28	85.6975	0.5375	5951.3850	1238.2625	0.1366	0.0284
29	85.7100	0.5500	6207.3000	1314.2486	0.1425	0.0302
30	85.7225	0.5625	6463.2150	1393.4340	0.1484	0.0320
31	85.7350	0.5750	6719.1300	1475.8184	0.1542	0.0339
32	85.7475	0.5875	6975.0450	1561.4020	0.1601	0.0358
33	85.7600	0.6000	7230.9600	1650.1848	0.1660	0.0379
34	85.7725	0.6125	7508.6550	1742.3019	0.1724	0.0400
35	85.7850	0.6250	7786.3500	1837.8905	0.1788	0.0422
36	85.7975	0.6375	8064.0450	1936.9504	0.1851	0.0445
37	85.8100	0.6500	8341.7400	2039.4816	0.1915	0.0468
38	85.8225	0.6625	8619.4350	2145.4842	0.1979	0.0493
39	85.8350	0.6750	8897.1300	2254.9582	0.2042	0.0518
40	85.8475	0.6875	9174.8250	2367.9034	0.2106	0.0544
41	85.8600	0.7000	9452.5200	2484.3200	0.2170	0.0570
42	92.4000	7.2400	9452.5200	64303.8008	0.2170	1.4762

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| Variable storage data for node | DI-12
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	88.9500	0.0000	0.0000	0.0000	0.0000	0.0000
2	89.1375	0.1875	54.4500	3.4031	0.0013	0.0001
3	89.3250	0.3750	108.9000	18.4252	0.0025	0.0004
4	89.5125	0.5625	163.3500	43.7768	0.0037	0.0010
5	89.7000	0.7500	217.8000	79.3874	0.0050	0.0018
6	89.8875	0.9375	272.2500	125.2348	0.0062	0.0029
7	90.0750	1.1250	326.7000	181.3089	0.0075	0.0042
8	90.2625	1.3125	381.1500	247.6043	0.0088	0.0057
9	90.4500	1.5000	435.6000	324.1178	0.0100	0.0074
10	90.5125	1.5625	762.3000	361.0791	0.0175	0.0083
11	90.5750	1.6250	1089.0000	418.6296	0.0250	0.0096
12	90.6375	1.6875	1415.7000	496.6786	0.0325	0.0114
13	90.7000	1.7500	1742.4000	595.1927	0.0400	0.0137
14	90.7625	1.8125	2069.1000	714.1560	0.0475	0.0164
15	90.8250	1.8750	2395.8000	853.5594	0.0550	0.0196
16	90.8875	1.9375	2722.5000	1013.3976	0.0625	0.0233
17	90.9500	2.0000	3049.2000	1193.6668	0.0700	0.0274
18	91.0375	2.0875	7241.8500	1630.8805	0.1663	0.0374
19	91.1250	2.1750	11434.5000	2441.0191	0.2625	0.0560
20	91.2125	2.2625	15627.1500	3620.2011	0.3588	0.0831
21	91.3000	2.3500	19819.8000	5167.3765	0.4550	0.1186
22	91.3875	2.4375	24012.4500	7082.1065	0.5513	0.1626
23	91.4750	2.5250	28205.1000	9364.1657	0.6475	0.2150
24	91.5625	2.6125	32397.7500	12013.4228	0.7438	0.2758
25	91.6500	2.7000	36590.4000	15029.7947	0.8400	0.3450
26	92.3000	3.3500	36590.4000	38813.5547	0.8400	0.8910

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| Variable storage data for node | DI-9
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	89.7300	0.0000	0.0000	0.0000	0.0000	0.0000
2	89.9175	0.1875	217.8000	13.6125	0.0050	0.0003
3	90.1050	0.3750	435.6000	73.7010	0.0100	0.0017
4	90.2925	0.5625	653.4000	175.1072	0.0150	0.0040
5	90.4800	0.7500	871.2000	317.5497	0.0200	0.0073
6	90.6675	0.9375	1089.0000	500.9392	0.0250	0.0115
7	90.8550	1.1250	1306.8000	725.2354	0.0300	0.0166
8	91.0425	1.3125	1524.6000	990.4170	0.0350	0.0227
9	91.2300	1.5000	1742.4000	1296.4711	0.0400	0.0298
10	91.2925	1.5625	2668.0500	1433.2745	0.0612	0.0329
11	91.3550	1.6250	3593.7000	1628.2375	0.0825	0.0374
12	91.4175	1.6875	4519.3500	1881.2185	0.1037	0.0432
13	91.4800	1.7500	5445.0000	2192.1556	0.1250	0.0503
14	91.5425	1.8125	6370.6500	2561.0164	0.1462	0.0588
15	91.6050	1.8750	7296.3000	2987.7817	0.1675	0.0686
16	91.6675	1.9375	8221.9500	3472.4392	0.1888	0.0797
17	91.7300	2.0000	9147.6000	4014.9805	0.2100	0.0922
18	91.7925	2.0625	10236.6000	4620.4178	0.2350	0.1061
19	91.8550	2.1250	11325.6000	5293.9499	0.2600	0.1215
20	91.9175	2.1875	12414.6000	6035.5709	0.2850	0.1386
21	91.9800	2.2500	13503.6000	6845.2762	0.3100	0.1571
22	92.0425	2.3125	14592.6000	7723.0625	0.3350	0.1773
23	92.1050	2.3750	15681.6000	8668.9272	0.3600	0.1990
24	92.1675	2.4375	16770.6000	9682.8681	0.3850	0.2223
25	92.2300	2.5000	17859.6000	10764.8834	0.4100	0.2471
26	92.5000	2.7700	17859.6000	15586.9754	0.4100	0.3578

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| Variable storage data for node | DI-11
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	89.3700	0.0000	0.0000	0.0000	0.0000	0.0000
2	89.4950	0.1250	65.3400	2.7225	0.0015	0.0001
3	89.6200	0.2500	130.6800	14.7402	0.0030	0.0003
4	89.7450	0.3750	196.0200	35.0214	0.0045	0.0008
5	89.8700	0.5000	261.3600	63.5099	0.0060	0.0015
6	89.9950	0.6250	326.7000	100.1878	0.0075	0.0023
7	90.1200	0.7500	392.0400	145.0471	0.0090	0.0033
8	90.2450	0.8750	457.3800	198.0834	0.0105	0.0045
9	90.3700	1.0000	522.7200	259.2942	0.0120	0.0060
10	90.4325	1.0625	1671.6150	324.4838	0.0384	0.0074
11	90.4950	1.1250	2820.5100	463.3064	0.0648	0.0106
12	90.5575	1.1875	3969.4050	674.4714	0.0911	0.0155
13	90.6200	1.2500	5118.3000	957.7027	0.1175	0.0220
14	90.6825	1.3125	6267.1950	1312.8940	0.1439	0.0301
15	90.7450	1.3750	7416.0900	1739.9934	0.1702	0.0399
16	90.8075	1.4375	8564.9850	2238.9712	0.1966	0.0514
17	90.8700	1.5000	9713.8800	2809.8093	0.2230	0.0645
18	90.9950	1.6250	16002.8550	4400.8379	0.3674	0.1010
19	91.1200	1.7500	22291.8300	6783.4237	0.5117	0.1557
20	91.2450	1.8750	28580.8050	9954.8337	0.6561	0.2285
21	91.3700	2.0000	34869.7800	13913.9861	0.8005	0.3194
22	91.4950	2.1250	41158.7550	18660.3414	0.9449	0.4284
23	91.6200	2.2500	47447.7300	24193.5911	1.0892	0.5554
24	91.7450	2.3750	53736.7050	30513.5427	1.2336	0.7005
25	91.8700	2.5000	60025.6800	37620.0675	1.3780	0.8636
26	94.0000	4.6300	60025.6800	165474.7659	1.3780	3.7988

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| Variable storage data for node | DI-10
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	89.9200	0.0000	0.0000	0.0000	0.0000	0.0000
2	90.0450	0.1250	163.3500	6.8062	0.0037	0.0002
3	90.1700	0.2500	326.7000	36.8505	0.0075	0.0008
4	90.2950	0.3750	490.0500	87.5536	0.0112	0.0020
5	90.4200	0.5000	653.4000	158.7749	0.0150	0.0036
6	90.5450	0.6250	816.7500	250.4696	0.0187	0.0057
7	90.6700	0.7500	980.1000	362.6177	0.0225	0.0083
8	90.7950	0.8750	1143.4500	495.2085	0.0262	0.0114
9	90.9200	1.0000	1306.8000	648.2356	0.0300	0.0149
10	90.9825	1.0625	1796.8500	744.8191	0.0412	0.0171
11	91.0450	1.1250	2286.9000	872.1289	0.0525	0.0200
12	91.1075	1.1875	2776.9500	1030.1266	0.0638	0.0236
13	91.1700	1.2500	3267.0000	1218.7928	0.0750	0.0280
14	91.2325	1.3125	3757.0500	1438.1160	0.0862	0.0330
15	91.2950	1.3750	4247.1000	1688.0893	0.0975	0.0388
16	91.3575	1.4375	4737.1500	1968.7078	0.1087	0.0452
17	91.4200	1.5000	5227.2000	2279.9681	0.1200	0.0523
18	91.4825	1.5625	6751.8000	2653.2971	0.1550	0.0609
19	91.5450	1.6250	8276.4000	3122.1207	0.1900	0.0717
20	91.6075	1.6875	9801.0000	3686.3686	0.2250	0.0846
21	91.6700	1.7500	11325.6000	4346.0011	0.2600	0.0998
22	91.7325	1.8125	12850.2000	5100.9936	0.2950	0.1171

23	91.7950	1.8750	14374.8000	5951.3298	0.3300	0.1366
24	91.8575	1.9375	15899.4000	6896.9984	0.3650	0.1583
25	91.9200	2.0000	17424.0000	7937.9911	0.4000	0.1822
26	93.5000	3.5800	17424.0000	35467.9111	0.4000	0.8142

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| Variable storage data for node | DI-7
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	90.0600	0.0000	0.0000	0.0000	0.0000	0.0000
2	90.1850	0.1250	54.4500	2.2687	0.0013	0.0001
3	90.3100	0.2500	108.9000	12.2835	0.0025	0.0003
4	90.4350	0.3750	163.3500	29.1845	0.0037	0.0007
5	90.5600	0.5000	217.8000	52.9250	0.0050	0.0012
6	90.6850	0.6250	272.2500	83.4899	0.0062	0.0019
7	90.8100	0.7500	326.7000	120.8726	0.0075	0.0028
8	90.9350	0.8750	381.1500	165.0695	0.0088	0.0038
9	91.0600	1.0000	435.6000	216.0785	0.0100	0.0050
10	91.1225	1.0625	653.4000	249.8806	0.0150	0.0057
11	91.1850	1.1250	871.2000	297.3614	0.0200	0.0068
12	91.2475	1.1875	1089.0000	358.4913	0.0250	0.0082
13	91.3100	1.2500	1306.8000	433.2567	0.0300	0.0099
14	91.3725	1.3125	1524.6000	521.6505	0.0350	0.0120
15	91.4350	1.3750	1742.4000	623.6686	0.0400	0.0143
16	91.4975	1.4375	1960.2000	739.3080	0.0450	0.0170
17	91.5600	1.5000	2178.0000	868.5670	0.0500	0.0199
18	91.6225	1.5625	4573.8000	1074.9842	0.1050	0.0247
19	91.6850	1.6250	6969.6000	1433.0971	0.1600	0.0329
20	91.7475	1.6875	9365.4000	1941.7258	0.2150	0.0446
21	91.8100	1.7500	11761.2000	2600.5124	0.2700	0.0597
22	91.8725	1.8125	14157.0000	3409.3002	0.3250	0.0783
23	91.9350	1.8750	16552.8000	4368.0065	0.3800	0.1003
24	91.9975	1.9375	18948.6000	5476.5822	0.4350	0.1257
25	92.0600	2.0000	21344.4000	6734.9959	0.4900	0.1546
26	94.3000	4.2400	21344.4000	54546.4519	0.4900	1.2522

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| Variable storage data for node | DI-6
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	89.7000	0.0000	0.0000	0.0000	0.0000	0.0000
2	89.8250	0.1250	5101.9650	212.5819	0.1171	0.0049
3	89.9500	0.2500	10203.9300	1150.9637	0.2342	0.0264
4	90.0750	0.3750	15305.8950	2734.5902	0.3514	0.0628
5	90.2000	0.5000	20407.8600	4959.0685	0.4685	0.1138
6	90.3250	0.6250	25509.8250	7823.0004	0.5856	0.1796
7	90.4500	0.7500	30611.7900	11325.7599	0.7027	0.2600
8	90.5750	0.8750	35713.7550	15467.0123	0.8199	0.3551
9	90.7000	1.0000	40815.7200	20246.5575	0.9370	0.4648
10	90.8250	1.1250	51117.6600	25980.3306	1.1735	0.5964
11	90.9500	1.2500	61419.6000	33004.0650	1.4100	0.7577
12	91.0750	1.3750	71721.5400	41317.0705	1.6465	0.9485
13	91.2000	1.5000	82023.4800	50918.9355	1.8830	1.1689
14	91.3250	1.6250	92325.4200	61809.3954	2.1195	1.4189
15	91.4500	1.7500	102627.3600	73988.2694	2.3560	1.6985
16	91.5750	1.8750	112929.3000	87455.4291	2.5925	2.0077
17	91.7000	2.0000	123231.2400	102210.7794	2.8290	2.3464
18	94.1000	4.4000	123231.2400	397965.7554	2.8290	9.1360

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| Variable storage data for node | DI-8
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	90.3700	0.0000	0.0000	0.0000	0.0000	0.0000
2	90.4325	0.0625	326.7000	6.8062	0.0075	0.0002
3	90.4950	0.1250	653.4000	36.8505	0.0150	0.0008
4	90.5575	0.1875	980.1000	87.5536	0.0225	0.0020
5	90.6200	0.2500	1306.8000	158.7749	0.0300	0.0036
6	90.6825	0.3125	1633.5000	250.4696	0.0375	0.0057
7	90.7450	0.3750	1960.2000	362.6177	0.0450	0.0083
8	90.8075	0.4375	2286.9000	495.2085	0.0525	0.0114
9	90.8700	0.5000	2613.6000	648.2356	0.0600	0.0149
10	90.9325	0.5625	3484.8000	838.1590	0.0800	0.0192
11	90.9950	0.6250	4356.0000	1082.6783	0.1000	0.0249
12	91.0575	0.6875	5227.2000	1381.7399	0.1200	0.0317
13	91.1200	0.7500	6098.4000	1735.3154	0.1400	0.0398
14	91.1825	0.8125	6969.6000	2143.3875	0.1600	0.0492
15	91.2450	0.8750	7840.8000	2605.9454	0.1800	0.0598
16	91.3075	0.9375	8712.0000	3122.9814	0.2000	0.0717
17	91.3700	1.0000	9583.2000	3694.4902	0.2200	0.0848
18	95.0000	4.6300	9583.2000	38481.5062	0.2200	0.8834

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| Variable storage data for node | DI-5
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	90.6800	0.0000	0.0000	0.0000	0.0000	0.0000
2	90.8050	0.1250	1878.5250	78.2719	0.0431	0.0018
3	90.9300	0.2500	3757.0500	423.7806	0.0862	0.0097
4	91.0550	0.3750	5635.5750	1006.8662	0.1294	0.0231
5	91.1800	0.5000	7514.1000	1825.9110	0.1725	0.0419
6	91.3050	0.6250	9392.6250	2880.4004	0.2156	0.0661
7	91.4300	0.7500	11271.1500	4170.1037	0.2587	0.0957
8	91.5550	0.8750	13149.6750	5694.8978	0.3019	0.1307
9	91.6800	1.0000	15028.2000	7454.7090	0.3450	0.1711
10	91.8050	1.1250	29343.1050	10178.4876	0.6736	0.2337
11	91.9300	1.2500	43658.0100	14711.5308	1.0023	0.3377
12	92.0550	1.3750	57972.9150	21042.3555	1.3309	0.4831
13	92.1800	1.5000	72287.8200	29167.2149	1.6595	0.6696
14	92.3050	1.6250	86602.7250	39084.4125	1.9881	0.8973
15	92.4300	1.7500	100917.6300	50793.0351	2.3168	1.1660
16	92.5550	1.8750	115232.5350	64292.5342	2.6454	1.4760
17	92.6800	2.0000	129547.4400	79582.5549	2.9740	1.8270
18	95.0000	4.3200	129547.4400	380132.6157	2.9740	8.7266

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| Variable storage data for node | CI-35
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	91.4200	0.0000	0.0000	0.0000	0.0000	0.0000
2	91.5450	0.1250	6305.3100	262.7212	0.1447	0.0060
3	91.6700	0.2500	12610.6200	1422.4290	0.2895	0.0327
4	91.7950	0.3750	18915.9300	3379.5682	0.4342	0.0776
5	91.9200	0.5000	25221.2400	6128.7101	0.5790	0.1407
6	92.0450	0.6250	31526.5500	9668.1265	0.7237	0.2219
7	92.1700	0.7500	37831.8600	13997.0438	0.8685	0.3213
8	92.2950	0.8750	44137.1700	19115.0483	1.0132	0.4388
9	92.4200	1.0000	50442.4800	25021.8929	1.1580	0.5744

Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
10	98.4000	6.9800	50442.4800	326667.9233	1.1580	7.4993

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| Variable storage data for node | CI-66
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	88.0000	0.0000	0.4356	0.0000	0.0000	0.0000
2	88.0625	0.0625	446.8712	9.6096	0.0103	0.0002
3	88.1250	0.1250	893.3067	50.6928	0.0205	0.0012
4	88.1875	0.1875	1339.7423	120.0060	0.0308	0.0028
5	88.2500	0.2500	1786.1778	217.3572	0.0410	0.0050
6	88.3125	0.3125	2232.6134	342.6853	0.0513	0.0079
7	88.3750	0.3750	2679.0489	495.9630	0.0615	0.0114
8	88.4375	0.4375	3125.4844	677.1755	0.0718	0.0155
9	88.5000	0.5000	3571.9200	886.3143	0.0820	0.0203
10	88.5625	0.5625	5826.5840	1177.1587	0.1338	0.0270
11	88.6250	0.6250	8081.2479	1609.8620	0.1855	0.0370
12	88.6875	0.6875	10335.9119	2183.9552	0.2373	0.0501
13	88.7500	0.7500	12590.5759	2899.2503	0.2890	0.0666
14	88.8125	0.8125	14845.2398	3755.6529	0.3408	0.0862
15	88.8750	0.8750	17099.9038	4753.1088	0.3926	0.1091
16	88.9375	0.9375	19354.5678	5891.5840	0.4443	0.1353
17	89.0000	1.0000	21609.2317	7171.0559	0.4961	0.1646
18	89.0625	1.0625	21923.1676	8531.4316	0.5033	0.1959
19	89.1250	1.1250	22237.1034	9911.4285	0.5105	0.2275
20	89.1875	1.1875	22551.0392	11311.0464	0.5177	0.2597
21	89.2500	1.2500	22864.9751	12730.2856	0.5249	0.2922
22	89.3125	1.3125	23178.9109	14169.1459	0.5321	0.3253
23	89.3750	1.3750	23492.8467	15627.6273	0.5393	0.3588
24	89.4375	1.4375	23806.7825	17105.7299	0.5465	0.3927
25	89.5000	1.5000	24120.7184	18603.4536	0.5537	0.4271
26	93.0500	5.0500	24120.7184	104232.0038	0.5537	2.3928

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| Variable storage data for node | CI-62
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	87.0000	0.0000	4.3560	0.0000	0.0001	0.0000
2	87.0250	0.0250	150.8265	1.5068	0.0035	0.0000
3	87.0500	0.0500	297.2970	7.0058	0.0068	0.0002
4	87.0750	0.0750	443.7675	16.2082	0.0102	0.0004
5	87.1000	0.1000	590.2380	29.0898	0.0135	0.0007
6	87.1250	0.1250	736.7085	45.6428	0.0169	0.0010
7	87.1500	0.1500	883.1790	65.8638	0.0203	0.0015
8	87.1750	0.1750	1029.6495	89.7507	0.0236	0.0021
9	87.2000	0.2000	1176.1200	117.3026	0.0270	0.0027
10	87.2250	0.2250	1475.5950	150.3783	0.0339	0.0035
11	87.2500	0.2500	1775.0700	190.9540	0.0408	0.0044
12	87.2750	0.2750	2074.5450	239.0256	0.0476	0.0055
13	87.3000	0.3000	2374.0200	294.5906	0.0545	0.0068
14	87.3250	0.3250	2673.4950	357.6475	0.0614	0.0082
15	87.3500	0.3500	2972.9700	428.1952	0.0683	0.0098
16	87.3750	0.3750	3272.4450	506.2330	0.0751	0.0116
17	87.4000	0.4000	3571.9200	591.7602	0.0820	0.0136
18	87.4125	0.4125	3773.3850	637.6626	0.0866	0.0146
19	87.4250	0.4250	3974.8500	686.0836	0.0912	0.0158
20	87.4375	0.4375	4176.3150	737.0232	0.0959	0.0169
21	87.4500	0.4500	4377.7800	790.4814	0.1005	0.0181
22	87.4625	0.4625	4579.2450	846.4581	0.1051	0.0194
23	87.4750	0.4750	4780.7100	904.9533	0.1098	0.0208
24	87.4875	0.4875	4982.1750	965.9670	0.1144	0.0222
25	87.5000	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	87.5125	0.5125	5439.5550	1095.8877	0.1249	0.0252
27	87.5250	0.5250	5695.4700	1165.4755	0.1308	0.0268
28	87.5375	0.5375	5951.3850	1238.2625	0.1366	0.0284
29	87.5500	0.5500	6207.3000	1314.2486	0.1425	0.0302
30	87.5625	0.5625	6463.2150	1393.4340	0.1484	0.0320
31	87.5750	0.5750	6719.1300	1475.8184	0.1542	0.0339
32	87.5875	0.5875	6975.0450	1561.4020	0.1601	0.0358
33	87.6000	0.6000	7230.9600	1650.1848	0.1660	0.0379
34	87.6125	0.6125	7508.6550	1742.3019	0.1724	0.0400
35	87.6250	0.6250	7786.3500	1837.8905	0.1788	0.0422
36	87.6375	0.6375	8064.0450	1936.9504	0.1851	0.0445
37	87.6500	0.6500	8341.7400	2039.4816	0.1915	0.0468
38	87.6625	0.6625	8619.4350	2145.4842	0.1979	0.0493
39	87.6750	0.6750	8897.1300	2254.9582	0.2042	0.0518
40	87.6875	0.6875	9174.8250	2367.9034	0.2106	0.0544
41	87.7000	0.7000	9452.5200	2484.3200	0.2170	0.0570
42	91.8700	4.8700	9452.5200	41901.3284	0.2170	0.9619

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| Variable storage data for node | CI-59
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	86.3800	0.0000	4.3560	0.0000	0.0001	0.0000
2	86.4050	0.0250	150.8265	1.5068	0.0035	0.0000
3	86.4300	0.0500	297.2970	7.0058	0.0068	0.0002
4	86.4550	0.0750	443.7675	16.2082	0.0102	0.0004
5	86.4800	0.1000	590.2380	29.0898	0.0135	0.0007
6	86.5050	0.1250	736.7085	45.6428	0.0169	0.0010
7	86.5300	0.1500	883.1790	65.8638	0.0203	0.0015
8	86.5550	0.1750	1029.6495	89.7507	0.0236	0.0021
9	86.5800	0.2000	1176.1200	117.3026	0.0270	0.0027
10	86.6050	0.2250	1475.5950	150.3783	0.0339	0.0035
11	86.6300	0.2500	1775.0700	190.9540	0.0408	0.0044
12	86.6550	0.2750	2074.5450	239.0256	0.0476	0.0055
13	86.6800	0.3000	2374.0200	294.5906	0.0545	0.0068
14	86.7050	0.3250	2673.4950	357.6475	0.0614	0.0082
15	86.7300	0.3500	2972.9700	428.1952	0.0683	0.0098
16	86.7550	0.3750	3272.4450	506.2330	0.0751	0.0116
17	86.7800	0.4000	3571.9200	591.7602	0.0820	0.0136
18	86.7925	0.4125	3773.3850	637.6626	0.0866	0.0146
19	86.8050	0.4250	3974.8500	686.0836	0.0912	0.0158
20	86.8175	0.4375	4176.3150	737.0232	0.0959	0.0169
21	86.8300	0.4500	4377.7800	790.4814	0.1005	0.0181
22	86.8425	0.4625	4579.2450	846.4581	0.1051	0.0194
23	86.8550	0.4750	4780.7100	904.9533	0.1098	0.0208
24	86.8675	0.4875	4982.1750	965.9670	0.1144	0.0222
25	86.8800	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	86.8925	0.5125	5439.5550	1095.8877	0.1249	0.0252
27	86.9050	0.5250	5695.4700	1165.4755	0.1308	0.0268
28	86.9175	0.5375	5951.3850	1238.2625	0.1366	0.0284
29	86.9300	0.5500	6207.3000	1314.2486	0.1425	0.0302
30	86.9425	0.5625	6463.2150	1393.4340	0.1484	0.0320
31	86.9550	0.5750	6719.1300	1475.8184	0.1542	0.0339
32	86.9675	0.5875	6975.0450	1561.4020	0.1601	0.0358
33	86.9800	0.6000	7230.9600	1650.1848	0.1660	0.0379
34	86.9925	0.6125	7508.6550	1742.3019	0.1724	0.0400
35	87.0050	0.6250	7786.3500	1837.8905	0.1788	0.0422
36	87.0175	0.6375	8064.0450	1936.9504	0.1851	0.0445
37	87.0300	0.6500	8341.7400	2039.4816	0.1915	0.0468
38	87.0425	0.6625	8619.4350	2145.4842	0.1979	0.0493

39	87.0550	0.6750	8897.1300	2254.9582	0.2042	0.0518
40	87.0675	0.6875	9174.8250	2367.9034	0.2106	0.0544
41	87.0800	0.7000	9452.5200	2484.3200	0.2170	0.0570
42	91.8900	5.5100	9452.5200	47950.9412	0.2170	1.1008

Variable storage data for node | CI-58						
Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	83.5600	0.0000	4.3560	0.0000	0.0001	0.0000
2	83.5850	0.0250	150.8265	1.5068	0.0035	0.0000
3	83.6100	0.0500	297.2970	7.0058	0.0068	0.0002
4	83.6350	0.0750	443.7675	16.2082	0.0102	0.0004
5	83.6600	0.1000	590.2380	29.0898	0.0135	0.0007
6	83.6850	0.1250	736.7085	45.6428	0.0169	0.0010
7	83.7100	0.1500	883.1790	65.8638	0.0203	0.0015
8	83.7350	0.1750	1029.6495	89.7507	0.0236	0.0021
9	83.7600	0.2000	1176.1200	117.3026	0.0270	0.0027
10	83.7850	0.2250	1475.5950	150.3783	0.0339	0.0035
11	83.8100	0.2500	1775.0700	190.9540	0.0408	0.0044
12	83.8350	0.2750	2074.5450	239.0256	0.0476	0.0055
13	83.8600	0.3000	2374.0200	294.5906	0.0545	0.0068
14	83.8850	0.3250	2673.4950	357.6475	0.0614	0.0082
15	83.9100	0.3500	2972.9700	428.1952	0.0683	0.0098
16	83.9350	0.3750	3272.4450	506.2330	0.0751	0.0116
17	83.9600	0.4000	3571.9200	591.7602	0.0820	0.0136
18	83.9725	0.4125	3773.3850	637.6626	0.0866	0.0146
19	83.9850	0.4250	3974.8500	686.0836	0.0912	0.0158
20	83.9975	0.4375	4176.3150	737.0232	0.0959	0.0169
21	84.0100	0.4500	4377.7800	790.4814	0.1005	0.0181
22	84.0225	0.4625	4579.2450	846.4581	0.1051	0.0194
23	84.0350	0.4750	4780.7100	904.9533	0.1098	0.0208
24	84.0475	0.4875	4982.1750	965.9670	0.1144	0.0222
25	84.0600	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	84.0725	0.5125	5439.5550	1095.8877	0.1249	0.0252
27	84.0850	0.5250	5695.4700	1165.4755	0.1308	0.0268
28	84.0975	0.5375	5951.3850	1238.2625	0.1366	0.0284
29	84.1100	0.5500	6207.3000	1314.2486	0.1425	0.0302
30	84.1225	0.5625	6463.2150	1393.4340	0.1484	0.0320
31	84.1350	0.5750	6719.1300	1475.8184	0.1542	0.0339
32	84.1475	0.5875	6975.0450	1561.4020	0.1601	0.0358
33	84.1600	0.6000	7230.9600	1650.1848	0.1660	0.0379
34	84.1725	0.6125	7508.6550	1742.3019	0.1724	0.0400
35	84.1850	0.6250	7786.3500	1837.8905	0.1788	0.0422
36	84.1975	0.6375	8064.0450	1936.9504	0.1851	0.0445
37	84.2100	0.6500	8341.7400	2039.4816	0.1915	0.0468
38	84.2225	0.6625	8619.4350	2145.4842	0.1979	0.0493
39	84.2350	0.6750	8897.1300	2254.9582	0.2042	0.0518
40	84.2475	0.6875	9174.8250	2367.9034	0.2106	0.0544
41	84.2600	0.7000	9452.5200	2484.3200	0.2170	0.0570
42	92.4000	8.8400	9452.5200	79427.8328	0.2170	1.8234

Variable storage data for node | CI-64						
Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	86.6500	0.0000	4.3560	0.0000	0.0001	0.0000
2	86.6750	0.0250	150.8265	1.5068	0.0035	0.0000
3	86.7000	0.0500	297.2970	7.0058	0.0068	0.0002
4	86.7250	0.0750	443.7675	16.2082	0.0102	0.0004
5	86.7500	0.1000	590.2380	29.0898	0.0135	0.0007
6	86.7750	0.1250	736.7085	45.6428	0.0169	0.0010
7	86.8000	0.1500	883.1790	65.8638	0.0203	0.0015
8	86.8250	0.1750	1029.6495	89.7507	0.0236	0.0021
9	86.8500	0.2000	1176.1200	117.3026	0.0270	0.0027
10	86.8750	0.2250	1475.5950	150.3783	0.0339	0.0035
11	86.9000	0.2500	1775.0700	190.9540	0.0408	0.0044
12	86.9250	0.2750	2074.5450	239.0256	0.0476	0.0055
13	86.9500	0.3000	2374.0200	294.5906	0.0545	0.0068
14	86.9750	0.3250	2673.4950	357.6475	0.0614	0.0082
15	87.0000	0.3500	2972.9700	428.1952	0.0683	0.0098
16	87.0250	0.3750	3272.4450	506.2330	0.0751	0.0116
17	87.0500	0.4000	3571.9200	591.7602	0.0820	0.0136
18	87.0625	0.4125	3773.3850	637.6626	0.0866	0.0146
19	87.0750	0.4250	3974.8500	686.0836	0.0912	0.0158
20	87.0875	0.4375	4176.3150	737.0232	0.0959	0.0169
21	87.1000	0.4500	4377.7800	790.4814	0.1005	0.0181
22	87.1125	0.4625	4579.2450	846.4581	0.1051	0.0194
23	87.1250	0.4750	4780.7100	904.9533	0.1098	0.0208
24	87.1375	0.4875	4982.1750	965.9670	0.1144	0.0222
25	87.1500	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	87.1625	0.5125	5439.5550	1095.8877	0.1249	0.0252
27	87.1750	0.5250	5695.4700	1165.4755	0.1308	0.0268
28	87.1875	0.5375	5951.3850	1238.2625	0.1366	0.0284
29	87.2000	0.5500	6207.3000	1314.2486	0.1425	0.0302
30	87.2125	0.5625	6463.2150	1393.4340	0.1484	0.0320
31	87.2250	0.5750	6719.1300	1475.8184	0.1542	0.0339
32	87.2375	0.5875	6975.0450	1561.4020	0.1601	0.0358
33	87.2500	0.6000	7230.9600	1650.1848	0.1660	0.0379
34	87.2625	0.6125	7508.6550	1742.3019	0.1724	0.0400
35	87.2750	0.6250	7786.3500	1837.8905	0.1788	0.0422
36	87.2875	0.6375	8064.0450	1936.9504	0.1851	0.0445
37	87.3000	0.6500	8341.7400	2039.4816	0.1915	0.0468
38	87.3125	0.6625	8619.4350	2145.4842	0.1979	0.0493
39	87.3250	0.6750	8897.1300	2254.9582	0.2042	0.0518
40	87.3375	0.6875	9174.8250	2367.9034	0.2106	0.0544
41	87.3500	0.7000	9452.5200	2484.3200	0.2170	0.0570
42	92.1500	5.5000	9452.5200	47856.4160	0.2170	1.0986

Variable storage data for node | DI-12C						
Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	81.4900	0.0000	0.0000	0.0000	0.0000	0.0000
2	81.7362	0.2462	778.6350	63.9130	0.0179	0.0015
3	81.9825	0.4925	1557.2700	346.0384	0.0357	0.0079
4	82.2287	0.7388	2335.9050	822.1573	0.0536	0.0189
5	82.4750	0.9850	3114.5400	1490.9490	0.0715	0.0342
6	82.7212	1.2312	3893.1750	2351.9930	0.0894	0.0540
7	82.9675	1.4775	4671.8100	3405.1012	0.1072	0.0782
8	83.2137	1.7237	5450.4450	4650.1729	0.1251	0.1068
9	83.4600	1.9700	6229.0800	6087.1480	0.1430	0.1397
10	91.5300	10.0400	6229.0800	56355.8236	0.1430	1.2938

Variable storage data for node | DI-12C2						
Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	89.4200	0.0000	43.5600	0.0000	0.0010	0.0000
2	89.8675	0.4475	3778.8300	630.6925	0.0868	0.0145

3	90.3150	0.8950	7514.1000	3110.0782	0.1725	0.0714
4	90.7625	1.3425	11249.3700	7280.3947	0.2583	0.1671
5	91.2100	1.7900	14984.6400	13130.3198	0.3440	0.3014
6	91.6575	2.2375	18719.9100	20656.2280	0.4297	0.4742
7	92.1050	2.6850	22455.1800	29856.4920	0.5155	0.6854
8	92.5525	3.1325	26190.4500	40730.2401	0.6013	0.9350
9	93.0000	3.5800	29925.7200	53276.9510	0.6870	1.2231
10	93.1250	3.7050	52606.3230	58369.0037	1.2077	1.3400
11	93.2500	3.8300	75286.9260	66320.0994	1.7284	1.5225
12	93.3750	3.9550	97967.5290	77117.4410	2.2490	1.7704
13	93.5000	4.0800	120648.1320	90756.3428	2.7697	2.0835
14	93.6250	4.2050	143328.7350	107234.5605	3.2904	2.4618
15	93.7500	4.3300	166009.3380	126550.8445	3.8111	2.9052
16	93.8750	4.4550	188689.9410	148704.4269	4.3317	3.4138
17	94.0000	4.5800	211370.5440	173694.8024	4.8524	3.9875

Variable storage data for node | DI-12D2

Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	90.1000	0.0000	43.5600	0.0000	0.0010	0.0000
2	90.4625	0.3625	262.4490	49.8958	0.0060	0.0011
3	90.8250	0.7250	481.3380	182.7172	0.0111	0.0042
4	91.1875	1.0875	700.2270	395.6402	0.0161	0.0091
5	91.5500	1.4500	919.1160	688.2482	0.0211	0.0158
6	91.9125	1.8125	1138.0050	1060.3958	0.0261	0.0243
7	92.2750	2.1750	1356.8940	1512.0150	0.0311	0.0347
8	92.6375	2.5375	1575.7830	2043.0685	0.0362	0.0469
9	93.0000	2.9000	1794.6720	2653.5336	0.0412	0.0609
10	93.0625	2.9625	4036.9230	2831.1011	0.0927	0.0650
11	93.1250	3.0250	6279.1740	3150.9101	0.1442	0.0723
12	93.1875	3.0875	8521.4250	3611.6493	0.1956	0.0829
13	93.2500	3.1500	10763.6760	4212.9462	0.2471	0.0967
14	93.3125	3.2125	13005.9270	4954.6422	0.2986	0.1137
15	93.3750	3.2750	15248.1780	5836.6547	0.3501	0.1340
16	93.4375	3.3375	17490.4290	6858.9354	0.4015	0.1575
17	93.5000	3.4000	19732.6800	8021.4535	0.4530	0.1841
18	93.5625	3.4625	22433.4000	9338.2416	0.5150	0.2144
19	93.6250	3.5250	25134.1200	10823.9273	0.5770	0.2485
20	93.6875	3.5875	27834.8400	12478.4897	0.6390	0.2865
21	93.7500	3.6500	30535.5600	14301.9135	0.7010	0.3283
22	93.8125	3.7125	33236.2800	16294.1875	0.7630	0.3741
23	93.8750	3.7750	35937.0000	18455.3031	0.8250	0.4237
24	93.9375	3.8375	38637.7200	20785.2535	0.8870	0.4772
25	94.0000	3.9000	41338.4400	23284.0334	0.9490	0.5345

FREE OUTFALL DATA (DATA GROUP I1)
BOUNDARY CONDITION ON DATA GROUP J1

Outfall at Junction....E117-OUT has boundary condition number... 1

INTERNAL CONNECTIVITY INFORMATION

CONDUIT	JUNCTION	JUNCTION
FREE # 1	E117-OUT	BOUNDARY

Boundary Condition Information
Data Groups J1-J4

XP Note Field Summary

Table E9 - JUNCTION SUMMARY STATISTICS
The Maximum area is only the area of the node, it does not include the area of the surrounding conduits

Junction Name	Ground Elevation feet	Uppermost PipeCrown Elevation feet	Maximum Junction Elevation feet	Time of Occurence Hr.	Min.	Feet of Surcharge at Max Elevation	Freeboard of node feet	Maximum Junction Area ft^2	Maximum Gutter Depth feet	Maximum Gutter Width feet	Maximum Gutter Velocity ft/s
CI-54D	92.3600	89.5900	94.2123	18	1	4.6223	0.0000	31873.860	0.0000	0.0000	0.0000
CI-54C	92.8500	89.5400	94.2090	17	59	4.6690	0.0000	19460.732	0.0000	0.0000	0.0000
DI-12A	91.5000	89.0000	94.1964	18	7	5.1964	0.0000	74131.084	0.0000	0.0000	0.0000
MHI-38	92.2500	88.8700	94.1940	18	2	5.3240	0.0000	34933.437	0.0000	0.0000	0.0000
MHI-38X	115.4400	102.6200	94.2454	17	16	0.0000	21.1946	12.5660	0.0000	0.0000	0.0000
CI-54BX	115.4400	102.7200	94.2506	17	16	0.0000	21.1894	12.5660	0.0000	0.0000	0.0000
CI-54A	92.5300	89.2100	94.2734	17	37	5.0634	0.0000	28582.656	0.0000	0.0000	0.0000
CI-54B	92.4900	89.1600	94.2707	17	39	5.1107	0.0000	9452.5200	0.0000	0.0000	0.0000
CI-56B	92.4000	86.6600	94.5069	17	34	7.8469	0.0000	9452.5200	0.0000	0.0000	0.0000
JCT-56B	92.5000	88.8600	94.5060	17	33	5.6460	0.0000	12.5660	0.0000	0.0000	0.0000
MHI-36A	92.5600	89.2100	94.2764	17	41	5.0664	0.0000	27822.890	0.0000	0.0000	0.0000
MHI-56X	112.4400	111.4400	94.2274	17	15	0.0000	18.2126	12.5660	0.0000	0.0000	0.0000
MHI-23	96.5000	93.1300	98.8178	17	58	5.6878	0.0000	50765.943	0.0000	0.0000	0.0000
CI-56A	92.7700	89.1600	94.6177	17	37	5.4577	0.0000	31727.313	0.0000	0.0000	0.0000
CI-55	93.1400	89.4200	94.6235	17	38	5.2035	0.0000	22041.613	0.0000	0.0000	0.0000
MHI-37	92.5400	89.0700	94.6167	17	38	5.5467	0.0000	39892.198	0.0000	0.0000	0.0000
MHI-37X	112.4400	110.6400	94.2366	17	15	0.0000	18.2034	12.5660	0.0000	0.0000	0.0000
MHI-36	92.5400	90.0500	94.9338	17	49	4.8838	0.0000	54773.849	0.0000	0.0000	0.0000
CI-53	93.2200	90.1600	94.9353	17	51	4.7753	0.0000	27790.633	0.0000	0.0000	0.0000
MHI-35	92.4000	90.3600	94.9328	18	14	4.5728	0.0000	62941.448	0.0000	0.0000	0.0000
CI-54	93.2200	90.4700	94.9351	18	14	4.4651	0.0000	27787.341	0.0000	0.0000	0.0000
CI-46	95.0500	91.3400	95.9052	17	54	4.5652	0.0000	11759.674	0.0000	0.0000	0.0000
DI-12	92.3000	91.4500	95.9083	17	54	4.4583	0.0000	36590.400	0.0000	0.0000	0.0000
MHI-30	97.4700	91.2200	95.9016	17	53	4.6816	1.5684	12.5660	0.0000	0.0000	0.0000
MHI-32	94.1200	90.8900	95.6233	17	52	4.7333	0.0000	22481.496	0.0000	0.0000	0.0000
CI-48	94.4200	90.9600	95.6253	17	54	4.6653	0.0000	16688.758	0.0000	0.0000	0.0000
CI-50	93.7700	90.6700	95.5771	17	8	4.9071	0.0000	30462.451	0.0000	0.0000	0.0000
CI-52	93.4200	89.0200	95.2859	17	48	6.2659	0.0000	32308.703	0.0000	0.0000	0.0000
MHI-34	93.5400	90.6100	95.4039	17	50	4.7939	0.0000	32243.596	0.0000	0.0000	0.0000
JCT-52	93.5400	90.4679	95.2849	17	50	4.8169	0.0000	12.5660	0.0000	0.0000	0.0000
MHI-33	92.8200	90.8700	95.4341	18	5	4.5641	0.0000	68277.967	0.0000	0.0000	0.0000
CI-51	93.7700	90.9800	95.4690	17	59	4.4899	0.0000	27368.315	0.0000	0.0000	0.0000
MHI-31	93.3100	91.1500	95.6337	17	59	4.4837	0.0000	51065.453	0.0000	0.0000	0.0000
CI-49	94.5200	91.3400	95.6387	17	59	4.2987	0.0000	15304.543	0.0000	0.0000	0.0000
MHI-29	94.0900	91.4900	97.0629	20	3	5.5729	0.0000	97741.045	0.0000	0.0000	0.0000
CI-47	95.2300	91.5800	98.3708	17	55	6.7908	0.0000	115607.86	0.0000	0.0000	0.0000
CI-44	95.6900	91.5900	96.2151	17	45	4.6251	0.0000	8453.3897	0.0000	0.0000	0.0000
DI-9	92.5000	91.7300	96.2955	17	25	4.5655	0.0000	17859.600	0.0000	0.0000	0.0000
MHI-28	95.4700	91.5100	96.1859	17	53	4.6759	0.0000	10230.588	0.0000	0.0000	0.0000
MHI-27	94.6700	91.7700	96.2174	17	55	4.4474	0.0000	23495.365	0.0000	0.0000	0.0000

DI-11	94.0000	91.8700	96.2272	17	55	4.3572	0.0000	46300.992	0.0000	0.0000	0.0000
DI-10	93.5000	91.9200	96.2583	17	52	4.3383	0.0000	17424.000	0.0000	0.0000	0.0000
MHI-26	96.3000	91.9300	96.7120	17	55	4.7820	0.0000	7549.3662	0.0000	0.0000	0.0000
MHI-25	95.5100	92.1900	96.8048	17	53	4.6148	0.0000	18250.731	0.0000	0.0000	0.0000
MH-6	98.0000	91.6800	96.5911	19	48	4.9111	1.4089	12.5660	0.0000	0.0000	0.0000
DI-7	94.3000	92.0600	96.7282	17	53	4.6682	0.0000	21344.400	0.0000	0.0000	0.0000
DI-6	94.1000	92.2000	97.0590	18	21	4.8590	0.0000	123231.24	0.0000	0.0000	0.0000
DI-8	95.0000	92.3700	96.8490	17	45	4.4790	0.0000	9583.2000	0.0000	0.0000	0.0000
DI-5	95.0000	92.6800	97.1097	18	11	4.4297	0.0000	129547.44	0.0000	0.0000	0.0000
CI-43	96.6800	92.0700	96.8858	18	11	4.8158	0.0000	6142.2582	0.0000	0.0000	0.0000
CI-42	96.5000	92.2500	96.8276	17	53	4.5776	0.0000	6938.0804	0.0000	0.0000	0.0000
CI-41	97.0500	92.5600	97.0099	18	3	4.4499	0.0401	12.5660	0.0000	0.0000	0.0000
CI-40	97.2200	91.6300	97.4561	17	56	5.8261	0.0000	6331.6994	0.0000	0.0000	0.0000
CI-38	97.7700	92.9000	101.2442	17	29	8.3442	0.0000	161367.03	0.0000	0.0000	0.0000
CI-37	98.4000	93.5000	99.1206	17	58	5.6206	0.0000	10278.456	0.0000	0.0000	0.0000
CI-36	99.0200	93.8800	99.2552	19	57	5.3752	0.0000	6446.0232	0.0000	0.0000	0.0000
MHI-24	97.5500	92.8400	98.8133	17	55	5.9733	0.0000	17684.569	0.0000	0.0000	0.0000
MHI-22	97.8000	93.3700	99.1196	17	58	5.7496	0.0000	18709.441	0.0000	0.0000	0.0000
JCT-40	95.4200	92.2500	97.4554	17	56	5.2054	0.0000	12.5660	0.0000	0.0000	0.0000
CI-39	97.5500	93.2100	98.8184	17	57	5.6084	0.0000	17776.132	0.0000	0.0000	0.0000
CI-35	98.4000	93.9200	100.2908	18	0	6.3708	0.0000	50442.480	0.0000	0.0000	0.0000
CI-34	99.2200	94.2500	101.0145	17	26	6.7645	0.0000	30082.118	0.0000	0.0000	0.0000
MHI-21	97.2500	93.8000	100.0047	18	14	6.2047	0.0000	78585.289	0.0000	0.0000	0.0000
CI-45	95.8500	91.8700	96.2430	17	54	4.3730	0.0000	7407.4089	0.0000	0.0000	0.0000
E117-4	115.4400	109.6400	94.2395	17	16	0.0000	21.2005	12.5660	0.0000	0.0000	0.0000
AA-OUT1	110.4800	110.4800	94.1830	17	15	0.0000	16.2970	12.5660	0.0000	0.0000	0.0000
E117-3	112.4400	109.8000	94.2370	17	15	0.0000	18.2030	12.5660	0.0000	0.0000	0.0000
CI-66	93.0500	89.5000	94.2720	17	36	4.7720	0.0000	22724.271	0.0000	0.0000	0.0000
MH-11	93.5000	89.4500	94.2713	17	35	4.8213	0.0000	12.5660	0.0000	0.0000	0.0000
CI-60	92.6200	89.3300	94.1816	17	58	4.8516	0.0000	23831.393	0.0000	0.0000	0.0000
CI-62	91.8700	89.0000	94.1854	17	31	5.1854	0.0000	9452.5200	0.0000	0.0000	0.0000
CI-61	92.1500	89.1300	94.1768	17	47	5.0468	0.0000	37948.731	0.0000	0.0000	0.0000
MH-10	91.9200	88.9300	94.1904	17	18	5.2604	0.0000	12.5660	0.0000	0.0000	0.0000
MH-10A	91.5500	88.7500	94.1950	17	32	5.4450	0.0000	12.5660	0.0000	0.0000	0.0000
CI-62A	92.2000	88.8300	94.1969	17	32	5.3669	0.0000	36829.576	0.0000	0.0000	0.0000
MH-7A	93.4000	88.7600	94.1872	17	17	5.4272	0.0000	12.5660	0.0000	0.0000	0.0000
MH-8	91.8000	87.7300	94.1855	17	16	6.4555	0.0000	12.5660	0.0000	0.0000	0.0000
CI-59	91.8900	87.8800	94.1965	17	18	6.3165	0.0000	9452.5200	0.0000	0.0000	0.0000
CI-59A	92.2000	88.8300	94.1898	17	23	5.3598	0.0000	36568.537	0.0000	0.0000	0.0000
MH-7	92.5000	86.9300	94.1867	17	17	7.2567	0.0000	12.5660	0.0000	0.0000	0.0000
CI-58	92.4000	88.6800	94.1886	17	18	5.5086	0.0000	9452.5200	0.0000	0.0000	0.0000
CI-57	92.6400	88.8900	94.2089	17	23	5.3189	0.0000	24007.363	0.0000	0.0000	0.0000
MH-9	92.3000	88.5700	94.2487	17	36	5.6737	0.0000	12.5660	0.0000	0.0000	0.0000
CI-65	93.5300	88.5300	94.2854	17	33	5.7554	0.0000	10641.912	0.0000	0.0000	0.0000
MHI-40	92.2300	88.2500	94.2748	17	35	6.0248	0.0000	38639.881	0.0000	0.0000	0.0000
MHI-39	92.3300	88.4700	94.2849	17	35	5.8149	0.0000	35317.585	0.0000	0.0000	0.0000
CI-64	92.1500	88.6500	94.2611	17	37	5.6111	0.0000	9452.5200	0.0000	0.0000	0.0000
CI-63	92.5000	88.9600	94.2771	17	44	5.3171	0.0000	29564.619	0.0000	0.0000	0.0000
DI-12C	91.5300	90.4400	94.4608	17	32	4.0208	0.0000	6229.0800	0.0000	0.0000	0.0000
DI-12D	92.3600	91.0400	94.2383	17	20	3.1983	0.0000	32711.590	0.0000	0.0000	0.0000
JCT-12C	93.0000	88.7500	94.4437	17	30	5.6937	0.0000	12.5660	0.0000	0.0000	0.0000
DI-12C2	94.0000	90.9200	97.5153	20	35	6.5953	0.0000	211370.54	0.0000	0.0000	0.0000
DI-12D2	93.5000	91.6000	94.3074	17	53	2.7074	0.0000	41338.440	0.0000	0.0000	0.0000
E117-OUT	110.3600	110.3600	94.1800	17	14	0.0000	16.1800	12.5660	0.0000	0.0000	0.0000
GES-1	93.5000	85.8700	97.4791	17	49	11.6091	0.0000	267334.24	0.0000	0.0000	0.0000
GES-2	93.5000	85.4000	96.5138	18	24	11.1138	0.0000	101818.22	0.0000	0.0000	0.0000
GES-4	90.8000	83.9700	94.3538	17	34	10.3838	0.0000	174723.10	0.0000	0.0000	0.0000
GES-3	93.0000	84.9100	95.6186	18	29	10.7086	0.0000	68581.575	0.0000	0.0000	0.0000

Table E10 - CONDUIT SUMMARY STATISTICS

Note: The peak flow may be less than the design flow and the conduit may still surcharge because of the downstream boundary conditions.

* denotes an open conduit that has been overtopped this is a potential source of severe errors

Conduit Name	Design Flow (cfs)	Conduit Design Velocity (ft/s)	Maximum Vertical Depth (in)	Maximum Computed Flow (cfs)	Time of Occurence Hr.	Time of Occurence Min.	Maximum Computed Velocity (ft/s)	Time of Occurence Hr.	Time of Occurence Min.	Ratio of Max. to Design Flow	Maximum Water Elev at Pipe Ends Upstream (ft)	Maximum Water Elev at Pipe Ends Dwnstrm (ft)	Ratio d/D US	Ratio d/D DS
L_DI-12A	10.1170	3.2204	24.0000	-14.5049	16	19	-4.5558	16	19	-1.4337	94.1964	94.1940	3.598	3.662
L_MHI-38	19.7385	4.0211	30.0000	-15.0686	16	16	-3.0318	16	16	-0.7634	94.1940	94.2454	3.130	3.414
L_CI-54D	3.3218	1.8797	18.0000	-4.9208	16	7	-2.7468	16	7	-1.4814	94.2123	94.2090	4.082	4.113
L_CI-56B	3.2890	1.8612	18.0000	-7.6982	16	16	-4.2312	16	16	-2.3406	94.5069	94.5060	6.231	6.264
L_CI-54C	5.9661	3.3761	18.0000	-5.2115	16	16	-2.8979	16	16	-0.8735	94.2090	94.2506	4.113	4.474
L_CI-54A	3.3218	1.8797	18.0000	-3.8152	16	34	-2.1182	16	34	-1.1485	94.2734	94.2707	4.376	4.407
L_CI-54B	8.4645	2.6943	24.0000	-8.4664	16	16	-2.6570	16	16	-1.0002	94.2707	94.2506	3.555	3.720
L_MHI-36A	3.2264	1.8258	18.0000	3.4703	24	19	1.9365	24	19	1.0756	94.2764	94.2707	4.378	4.407
Link681	286.5309	6.4857	90.0000	274.4783	15	46	6.1971	15	46	0.9579	94.5060	94.4437	1.753	1.759
L_CI-36	15.9595	3.2513	30.0000	24.9499	19	58	5.0197	19	58	1.5633	99.2740	99.1206	3.158	3.248
L_CI-37	18.4862	3.7660	30.0000	37.5159	20	2	7.5515	20	2	2.0294	99.1206	99.1196	3.248	3.300
L_CI-34	14.9023	3.0359	30.0000	27.7632	20	35	5.5558	20	34	1.8630	101.0145	100.2908	3.706	3.548
L_CI-35	18.8200	3.8340	30.0000	42.2553	15	40	8.5178	15	40	2.2452	100.2908	100.0047	3.548	3.482
L_MHI-21	21.6040	4.4011	30.0000	53.9501	20	4	10.8708	20	4	2.4972	100.0047	99.1196	3.482	3.300
L_MHI-22	46.3242	4.8148	42.0000	63.3466	19	50	6.5306	19	50	1.3675	99.1196	98.8133	2.643	2.707
L_CI-38	14.2088	2.8946	30.0000	93.4045	17	12	18.6857	17	12	6.5737	101.2442	98.8133	4.338	3.389
L_MHI-23	16.9410	3.4512	30.0000	21.7844	20	4	4.3935	20	4	1.2859	98.8178	98.8133	3.275	3.389
L_CI-39	14.2803	2.9092	30.0000	43.7321	20	15	8.8182	20	15	3.0624	98.8184	98.8178	3.243	3.275
L_CI-40	4.9270	2.7881	18.0000	15.2342	20	10	8.4355	20	10	3.0920	97.4561	97.4554	4.884	4.957
L_MHI-24	83.9161	5.2763	54.0000	128.2408	17	55	7.9996	17	55	1.5282	98.8133	97.4554	2.327	2.157
L_JCT-40	83.8515	5.2722	54.0000	129.1595	16	31	8.0700	16	31	1.5403	97.4554	96.7120	2.157	2.063
L_DI-6	16.8536	3.4334	30.0000	44.4054	21	9	8.9699	21	9	2.6348	97.0590	96.8858	2.944	2.926
L_CI-43	65.8617	13.4172	30.0000	44.2269	21	9	8.9317	21	9	0.6715	96.8858	96.7120	2.926	3.713
L_DI-7	7.5732	2.4106	24.0000	12.3280	16	4	3.8788	16	4	1.6278	96.7282	96.7120	3.334	3.391
L_DI-5	11.3112	3.6005	24.0000	23.3146	20	36	7.3359	20	36	2.0612	97.1097	97.0099	3.215	3.225
L_CI-41	13.6236	2.7754	30.0000	22.0739	20	36	4.4633	20	36	1.6203	97.0099	96.8276	2.780	2.831
L_DI-8	7.3721	2.3466	24.0000	11.0465	20	36	3.4807	20	36	1.4984	96.8490	96.8276	3.239	3.289
L_CI-42	22.4416	3.1748	36.0000	31.9397	20	36	4.4864	20	36	1.4232	96.8276	96.8048	2.526	2.538
L_MHI-25	26.5571	3.7571	36.0000	34.6993	20	36	4.8758	20	36	1.3066	96.8048	96.7120	2.538	2.594
L_MHI-26	151.6403	5.3632	72.0000	173.7622	15	38	6.1307	15	38	1.1459	96.7120	96.5911	1.797	1.819
L_MH-6	146.0221	5.1645	72.0000	173.7434	15	38	6.1305	15	38	1.1898	96.5911	96.1859	1.819	1.779
L_DI-9	7.5709	2.4099	24.0000	10.2355	20	36	3.2216	20	36	1.3520	96.2955	96.2151	3.283	3.313
L_CI-44	8.5505	2.7217	24.0000	17.5706	20	26	5.5229	20	26	2.0549	96.2151	96.1859	3.313	3.338
L_DI-10	7.1538	2.2771	24.0000	21.3144	20	41	6.7127	20	41	2.9794	96.2583	96.2430	3.169	3.187
L_CI-45	8.2060	2.6121	24.0000	21.9691	20	41	6.9112	20	41	2.6772	96.2430	96.2174	3.187	3.224
L_DI-11	13.6724	2.7853	30.0000	12.5569	16	1	2.5377	16	1	0.9184	96.2272	96.2174	2.743	2.779
L_MHI-27	26.8034	3.7919	36.0000	27.5805	20	36	3.8729	20	36	1.0290	96.2174	96.1859	2.482	2.559
L_MHI-28	184.1730	5.5502	78.0000	199.5762	15	48	5.9985	15	48	1.0836	96.1859	95.9016	1.719	1.720
L_DI-12	18.8651	3.8432	30.0000	16.5338	20	37	3.3370	20	37	0.8764	95.9083	95.9052	2.783	2.826
L_CI-46	19.3357	3.9390	30.0000	17.7208	20	36	3.5762	20	36	0.9165	95.9052	95.9016	2.826	2.873
L_CI-47	3.3035	1.8694	18.0000	15.0702	16	44	8.3269	16	42	4.5619	98.3708	97.0629	5.527	4.715
L_MHI-29	4.3017	2.4343	18.0000	15.9766	22	10	8.9031	22	10	3.7141	97.0629	95.9016	4.715	4.121
L_MHI-30	211.5244	5.4964	84.0000	217.7300	15	53	5.6429	15	47	1.0293	95.9016	95.6233	1.669	1.676
L_CI-48	3.4472	1.9507	18.0000	14.2363	22	23	7.9771	22	23	4.1299	95.6253	95.6233	4.110	4.156
L_CI-49	4.9374	2.7940	18.0000	8.8577	21	40	4.9488	21	40	1.7940	95.6387	95.6337	3.866	3.989
L_MHI-31	8.8471	2.8161	24.0000	10.2915	21	14	3.2432	21	14	1.1633	95.6337	95.6233	3.242	3.367
L_MHI-32	222.8958	5.7918	84.0000	223.5207	15	57	5.7917	15	54	1.0028	95.6233	95.4039	1.676	1.685
L_CI-50	13.6724	2.7853	30.0000	36.7318	16	30	7.3991	16	30	2.6866	95.5771	95.4039	2.963	2.918
L_CI-51	4.8784	2.7606	18.0000	8.7823	22	22	4.9124	22	22	1.8002	95.4699	95.4341	3.993	4.043
L_MHI-33	8.8212	2.8079	24.0000	12.3109	21	14	3.8743	21	14	1.3956	95.4341	95.4039	3.282	3.397
L_MHI-34	238.4336	6.1956	84.0000	261.6984	15	48	6.7839	15	48	1.0976	95.2849	94.9338	1.688	1.698
L_CI-52	3.4663	1.9615	18.0000	7.8315	22	12	4.3511	22	12	2.2593	95.2859	95.2849	5.177	5.210
L_CI-53	4.6556	2.6345	18.0000	9.8728	23	32	5.5183	23	32	2.1207	94.9353	94.9338	4.184	4.256
L_CI-54	4.8784	2.7606	18.0000	8.0071	23	27	4.4799	23	27	1.6413	94.9351	94.9328	3.977	4.049

L_MHI-35	8.7546	2.7867	24.0000	9.5184	21	21	2.9930	21	21	1.0873	94.9328	94.9338	3.286	3.442
L_MHI-36	265.9986	6.0210	90.0000	266.5203	15	45	6.0178	15	45	1.0020	94.9338	94.6167	1.718	1.740
L_CI-55	4.3588	2.4666	18.0000	7.8489	24	18	4.3774	24	18	1.8007	94.6235	94.6177	4.469	4.638
L_CI-56A	9.6953	3.0861	24.0000	16.1678	23	51	5.0887	23	51	1.6676	94.6177	94.6167	3.729	3.773
L_MHI-37	298.4633	6.7558	90.0000	273.3149	15	46	6.1710	15	46	0.9157	94.6167	94.5060	1.740	1.753
Link713	238.4341	6.1956	84.0000	260.8821	15	48	6.7624	15	48	1.0941	95.4039	95.2849	1.685	1.688
L_E117-6	370002.9	16.2155	288.3600	1864.005	17	32	1.3651	32	48	0.0050	94.2506	94.2454	0.648	0.651
L_E117-5	28688.70	0.0000	288.3600	1862.851	17	32	1.4764	25	29	0.0649	94.2454	94.2395	0.651	0.651
L_E117-4	200325.2	7.3521	372.6000	1864.849	17	32	1.2211	17	47	0.0093	94.2395	94.2370	0.504	0.506
L_E117-3	1208053.	41.7229	375.2400	-1865.47	17	32	-1.2748	17	47	-0.0015	94.2370	94.2366	0.493	0.502
L_E117-2	2229089.	63.3735	381.9600	-2101.86	17	47	-1.6483	15	44	-0.0009	94.2366	94.2274	0.460	0.484
L_E117-1	504207.6	14.1124	371.1600	2125.167	17	48	3.0636	38	40	0.0042	94.2274	94.1830	0.473	0.503
L_CI-57	4.9387	2.7948	18.0000	4.5530	23	58	2.5383	23	58	0.9219	94.2089	94.1886	4.546	4.672
L_CI-58	72.1444	5.7411	48.0000	-12.4290	16	15	-0.9795	16	15	-0.1723	94.1886	94.1872	2.657	2.797
L_MH-7	66.8358	5.3186	48.0000	-22.1524	16	15	-1.7445	16	15	-0.3314	94.1867	94.1855	2.814	2.866
L_CI-59	4.7293	2.6762	18.0000	-6.0143	16	15	-3.3255	16	15	-1.2717	94.1965	94.1855	5.211	5.304
L_CI-65	14.2088	2.8946	30.0000	41.2421	23	50	8.3011	23	50	2.9026	94.2854	94.2849	3.302	3.326
L_MHI-39	23.2535	3.2897	36.0000	15.4195	23	34	2.1596	23	34	0.6631	94.2849	94.2748	2.938	3.008
L_MHI-40	30.4435	4.3069	36.0000	18.1246	15	49	2.5399	15	49	0.5954	94.2748	94.2713	3.175	3.190
L_CI-66	4.3617	2.4682	18.0000	-3.8561	16	42	-2.1409	16	42	-0.8841	94.2720	94.2713	4.181	4.214
L_MH-11	35.8702	5.0746	36.0000	19.8302	15	49	2.7756	15	49	0.5528	94.2713	94.1904	3.210	3.693
L_CI-60	3.3385	1.8892	18.0000	5.2696	24	21	2.9413	24	21	1.5784	94.1816	94.1768	4.234	4.365
L_CI-61	7.1815	2.2859	24.0000	-11.1199	16	32	-3.4882	16	32	-1.5484	94.1768	94.1854	3.523	3.593
L_CI-62	11.1145	3.5378	24.0000	-13.9604	16	15	-4.3831	16	15	-1.2561	94.1854	94.1904	3.593	3.630
L_CI-63	5.6806	3.2146	18.0000	6.3469	24	26	3.5382	24	26	1.1173	94.2771	94.2611	4.545	4.741
L_CI-64	9.4342	3.0030	24.0000	7.6566	24	41	2.4102	24	41	0.8116	94.2611	94.2487	3.806	3.839
L_MH-10	64.0394	5.0961	48.0000	32.2384	15	49	2.5421	15	49	0.5034	94.1904	94.1855	3.020	3.099
L_MH-8	141.2113	5.9437	66.0000	-54.4753	16	15	-2.2723	16	15	-0.3858	94.1855	94.1830	2.526	2.579
L_CI-59A	4.6320	2.6212	18.0000	-9.8803	16	17	-5.4846	16	17	-2.1331	94.1898	94.1872	4.573	4.618
L_CI-62A	4.6977	2.6583	18.0000	8.3434	24	31	4.6582	24	31	1.7761	94.1969	94.1950	4.578	4.630
Link709	10.1170	3.2204	24.0000	-14.2484	16	16	-4.4603	16	16	-1.4084	94.1950	94.1904	4.042	4.065
Link710	10.6643	3.3946	24.0000	7.1004	24	37	2.2333	24	37	0.6658	94.2487	94.1950	3.839	4.042
Link711	64.2392	5.1120	48.0000	-22.1403	16	15	-1.7439	16	15	-0.3447	94.1872	94.1867	2.797	2.814
L_DI-12D	24.8198	7.9004	24.0000	-9.9801	16	15	-3.1439	16	15	-0.4021	94.2383	94.2366	2.839	3.163
L_DI-12C	35.2348	4.9847	36.0000	18.7305	24	42	4.8686	34	58	0.5316	94.4608	94.4437	4.324	4.398
Link732	290.2283	6.5694	90.0000	283.1873	15	45	6.3947	15	45	0.9757	94.4437	94.2366	1.759	1.736
L_DI-12C2	4.6977	2.6583	18.0000	17.3419	25	47	9.6807	25	55	3.6916	97.5153	94.4608	5.397	3.681
L_DI-12D2	4.6977	2.6583	18.0000	5.8848	15	56	3.3120	15	56	1.2527	94.3074	94.2383	2.805	3.132
L_E117-OUT	1604256.	36.9924	382.3200	2153.952	18	3	2.5840	47	41	0.0013	94.1830	94.1800	0.488	0.492
L_GES-1	63.8331	5.0797	48.0000	102.1399	16	57	7.9883	16	56	1.6001	97.4791	96.5138	3.902	3.778
L_GES-2	64.9049	5.1650	48.0000	93.4561	25	19	7.3507	25	19	1.4399	96.5138	95.6186	3.778	3.677
L_GES-3	73.7680	4.6382	54.0000	90.1420	19	0	5.5849	19	0	1.2220	95.6186	94.3538	3.380	3.308
L_GES-4	192.5166	12.1047	54.0000	96.9605	19	27	6.0079	19	27	0.5036	94.3538	94.2506	3.308	3.431
FREE # 1	Undefnd	Undefnd	Undefn	2153.944	18	3								

Table E14 - Natural Channel Overbank Flow Information

Conduit Name	Maximum Velocity Left	Maximum Velocity Center	Maximum Velocity Right	Maximum Flow Left	Maximum Flow Center	Maximum Flow Right	Maximum Area Left	Maximum Area Center	Maximum Area Right	Max. Storage Volume Left	Max. Storage Volume Center	Max. Storage Volume Right	Maximum Depth
L_E117-6	0.0059	1.8200	0.1551	2.6576	1577.7079	283.6390	447.2647	866.8683	1828.7481	32203.059	62414.516	131669.86	15.6032
L_E117-5	0.0064	1.8950	0.1892	1.6157	1594.9500	266.2854	251.4809	841.6516	1407.5802	11819.600	39557.627	66156.268	15.6528
L_E117-4	0.0000	1.1804	0.1279	0.0000	1804.0975	60.7518	0.0000	1528.3831	474.9218	0.0000	401964.75	124904.42	15.6753
L_E117-3	0.0000	1.2356	0.1291	0.0000	1809.6852	55.7834	0.0000	1464.6213	432.1751	0.0000	61514.093	18151.356	15.5808
L_E117-2	0.0907	2.2369	0.1909	47.1824	1922.5421	132.1312	520.3951	859.4790	692.1608	43713.185	72196.238	58141.506	15.0817
L_E117-1	0.2174	1.4727	0.4963	215.0651	1171.7243	738.3778	989.1590	795.6477	1487.7520	378847.92	233124.79	370450.25	15.0723
L_E117-OUT	0.0027	2.4107	0.1924	0.2022	1919.8450	233.9049	74.6331	796.3944	1215.5377	2612.1600	27873.804	42543.821	15.6156

Table E14a - Natural Channel Encroachment Information

Conduit Name	Existing Conveyance Condition Left Bank	Centre Channel	Right Bank	Total	Encroachment Conveyance Condition Left Station	Right Station	Total	% Volume Reduction Left	Right	Encroachment Data Depth Incr.	Method
L_E117-6	659.49	391506.	70384.7	462551.	3095.2	4810.7	659.49	391506.	70384.7	462551.	3095.2	4810.7	0.0000	0.0000	0.0000	None
L_E117-5	290.25	286524.	47836.6	334651.	3100.7	4744.1	290.25	286524.	47836.6	334651.	3100.7	4744.1	0.0000	0.0000	0.0000	None
L_E117-4	0.0000	647862.	21816.4	669679.	4202.5	5086.7	0.0000	647862.	21816.4	669679.	4202.5	5086.7	0.0000	0.0000	0.0000	None
L_E117-3	0.0000	637413.	19648.2	657061.	4207.5	4860.3	0.0000	637413.	19648.2	657061.	4207.5	4860.3	0.0000	0.0000	0.0000	None
L_E117-2	9059.6	369152.	25370.9	403583.	2918.6	4154.3	9059.6	369152.	25370.9	403583.	2918.6	4154.3	0.0000	0.0000	0.0000	None
L_E117-1	23526.2	128176.	80772.0	232474.	3039.6	4173.3	23526.2	128176.	80772.0	232474.	3039.6	4173.3	0.0000	0.0000	0.0000	None
L_E117-OUT	43.655	414392.	50487.5	464923.	4944.9	5758.1	43.655	414392.	50487.5	464923.	4944.9	5758.1	0.0000	0.0000	0.0000	None

Table E14b - Floodplain Mapping

Conduit Name	Upstream WS Elev.	Downstream WS Elev.	Channel Length	Center Station	Left Offsets Natural	Left Offsets Encroach	Left Offsets Bank	Right Offsets Natural	Right Offsets Encroach	Right Offsets Bank	Channel Widths-> Total	Channel Widths-> Encroach.
L_E117-6	94.2506	94.2454	72.0000	3528.2930	433.1109	433.1109	34.3030	1282.3929	1282.3929	49.5070	1715.5038	1715.5038
L_E117-5	94.2454	94.2395	47.0000	3545.4330	444.7175	444.7175	71.7630	1198.6534	1198.6534	54.6270	1643.3709	1643.3709
L_E117-4	94.2395	94.2370	263.0000	4314.9800	112.5110	112.5110	161.0600	771.6783	771.6783	120.6600	884.1893	884.1893
L_E117-3	94.2366	94.2370	42.0000	4303.7680	96.2510	96.2510	151.7780	556.5318	556.5318	110.1120	652.7828	652.7828
L_E117-2	94.2274	94.2366	84.0000	3523.1950	604.6217	604.6217	31.1450	631.0734	631.0734	58.3250	1235.6952	1235.6952
L_E117-1	94.2274	94.1830	293.0000	3545.4330	505.8666	505.8666	54.0730	627.8482	627.8482	29.7670	1133.7147	1133.7147
L_E117-OUT	94.1830	94.1800	35.0000	5025.5000	80.5635	80.5635	51.0000	732.6260	732.6260	0.0000	813.1895	813.1895

Table E15 - SPREADSHEET INFO LIST

Conduit Flow and Junction Depth Information for use in spreadsheets. The maximum values in this table are the true maximum values because they sample every time step. The values in the review results may only be the maximum of a subset of all the time steps in the run.

Note: These flows are only the flows in a single barrel.

Conduit Name	Maximum Flow	Total Flow	Maximum Velocity	Maximum Volume	##	##	Junction Name	Invert Elevation	Maximum Elevation

	(cfs)	(ft^3)	(ft/s)	(ft^3)	##		(ft)	(ft)
L_DI-12A	-14.5049	1105.9988	-4.5558	214.0714	##	CI-54D	88.0900	94.2123
L_MHI-38	-15.0686	49319.6869	-3.0318	1441.6703	##	CI-54C	88.0400	94.2090
L_CI-54D	-4.9208	13565.1023	-2.7468	92.6271	##	DI-12A	87.0000	94.1964
L_CI-56B	-7.6982	8890.1882	-4.2312	94.4796	##	MHI-38	86.3700	94.1940
L_CI-54C	-5.2115	32576.0149	-2.8979	279.9649	##	MHI-38X	78.5900	94.2454
L_CI-54A	-3.8152	18640.3564	-2.1182	92.6271	##	CI-54BX	78.6900	94.2506
L_CI-54B	-8.4664	64785.2424	-2.6570	821.1276	##	CI-54A	87.7100	94.2734
L_MHI-36A	3.4703	25520.5458	1.9365	98.1847	##	CI-54B	87.1600	94.2707
Link681	274.4783	6054977.178	6.1971	3658.7688	##	CI-56B	85.1600	94.5069
L_CI-36	24.9499	62181.6285	5.0197	1291.4346	##	JCT-56B	81.3600	94.5060
L_CI-37	37.5159	90144.5366	7.5515	329.3406	##	MHI-36A	87.7100	94.2764
L_CI-34	27.7632	551451.9044	5.5558	1286.4869	##	MHI-56X	79.6100	94.2274
L_CI-35	42.2553	823457.8538	8.5178	293.3190	##	MHI-23	90.6300	98.8178
L_MHI-21	53.9501	894731.3619	10.8708	796.0676	##	CI-56A	87.1600	94.6177
L_MHI-22	63.3466	1052536.904	6.5306	2521.2406	##	CI-55	87.9200	94.6235
L_CI-38	93.4045	1741955.181	18.6857	257.2974	##	MHI-37	81.5700	94.6167
L_MHI-23	21.7844	77268.8089	4.3935	874.8111	##	MHI-37X	78.8100	94.2366
L_CI-39	43.7321	53415.8460	8.8182	339.6325	##	MHI-36	82.0500	94.9338
L_CI-40	15.2342	13443.5899	8.4355	92.6271	##	CI-53	88.6600	94.9353
L_MHI-24	128.2408	2902483.695	7.9996	5402.0101	##	MHI-35	88.3600	94.9328
L_JCT-40	129.1595	2915849.303	8.0700	2934.4252	##	CI-54	88.9700	94.9351
L_DI-6	44.4054	674351.5683	8.9699	396.2380	##	CI-46	88.8400	95.9052
L_CI-43	44.2269	694843.0862	8.9317	414.4616	##	DI-12	88.9500	95.9083
L_DI-7	12.3280	86818.9523	3.8788	382.0352	##	MHI-30	84.2200	95.9016
L_DI-5	23.3146	326173.2015	7.3359	158.0835	##	MHI-32	83.8900	95.6233
L_CI-41	22.0739	338595.8447	4.4633	1446.0113	##	CI-48	89.4600	95.6253
L_DI-8	11.0465	79038.5978	3.4807	372.1549	##	CI-50	88.1700	95.5771
L_CI-42	31.9397	434335.5659	4.4864	392.7387	##	CI-52	87.5200	95.2859
L_MHI-25	34.6993	482948.3378	4.8758	1215.2670	##	MHI-34	83.6100	95.4039
L_MHI-26	173.7622	4237412.572	6.1307	5779.9285	##	JCT-52	83.4679	95.2849
L_MH-6	173.7434	4237209.136	6.1305	4238.6142	##	MHI-33	88.8700	95.4341
L_DI-9	10.2355	111003.8535	3.2216	411.6758	##	CI-51	89.4800	95.4699
L_CI-44	17.5706	130741.6463	5.5229	184.4308	##	MHI-31	89.1500	95.6337
L_DI-10	21.3144	96985.8529	6.7127	164.6703	##	CI-49	89.8400	95.6387
L_CI-45	21.9691	129856.3951	6.9112	250.2988	##	MHI-29	89.9900	97.0629
L_DI-11	12.5569	109756.0967	2.5377	463.1353	##	CI-47	90.0800	98.3708
L_MHI-27	27.5805	264503.8046	3.8729	1193.0365	##	CI-44	89.5900	96.2151
L_MHI-28	199.5762	4658599.361	5.9985	8174.8524	##	DI-9	89.7300	96.2955
L_DI-12	16.5338	82503.2745	3.3370	267.5893	##	MHI-28	85.0100	96.1859
L_CI-46	17.7208	90835.1427	3.5762	277.8812	##	MHI-27	88.7700	96.2174
L_CI-47	15.0702	360035.8502	8.3269	168.5812	##	DI-11	89.3700	96.2272
L_MHI-29	15.9766	380618.3764	8.9031	297.4498	##	DI-10	89.9200	96.2583
L_MHI-30	217.7300	5153178.097	5.6429	12143.6130	##	MHI-26	85.9300	96.7120
L_CI-48	14.2363	23951.6238	7.9771	120.4152	##	MHI-25	89.1900	96.8048
L_CI-49	8.8577	33107.1101	4.9488	159.3185	##	MH-6	85.6800	96.5911
L_MHI-31	10.2915	66703.8508	3.2432	559.8791	##	DI-7	90.0600	96.7282
L_MHI-32	223.5207	5273928.046	5.7917	9279.1729	##	DI-6	89.7000	97.0590
L_CI-50	36.7318	419353.6016	7.3991	277.8812	##	DI-8	90.3700	96.8490
L_CI-51	8.7823	85613.7342	4.9124	94.4796	##	DI-5	90.6800	97.1097
L_MHI-33	12.3109	111968.2515	3.8743	563.1725	##	CI-43	89.5700	96.8858
L_MHI-34	261.6984	5834240.818	6.7839	12103.2690	##	CI-42	89.2500	96.8276
L_CI-52	7.8315	6608.0698	4.3511	85.2169	##	CI-41	90.0600	97.0099
L_CI-53	9.8728	26888.4234	5.5183	103.7423	##	CI-40	90.1300	97.4561
L_CI-54	8.0071	30654.0239	4.4799	94.4796	##	CI-38	90.4000	101.2442
L_MHI-35	9.5184	63857.6468	2.9930	681.5182	##	CI-37	91.0000	99.1206
L_MHI-36	266.5203	5965963.907	6.0178	18525.4117	##	CI-36	91.3800	99.2552
L_CI-55	7.8489	23928.5579	4.3774	279.0432	##	MHI-24	88.3400	98.8133
L_CI-56A	16.1678	37688.1778	5.0887	161.3769	##	MHI-22	89.8700	99.1196
L_MHI-37	273.3149	6046253.354	6.1710	6437.5806	##	JCT-40	87.7500	97.4554
Link713	260.8821	5827612.528	6.7624	4115.1115	##	CI-39	90.7100	98.8184
L_E117-6	1864.0045	68899392.16	1.3651	226287.4379	##	CI-35	91.4200	100.2908
L_E117-5	1862.8511	69021280.69	1.4764	117533.4952	##	CI-34	91.7500	101.0145
L_E117-4	1864.8493	69013284.04	1.2211	526869.1770	##	MHI-21	91.3000	100.0047

L_E117-3	-1865.4686	-69005195.0	-1.2748	79665.4484	##	CI-45	89.8700	96.2430
L_E117-2	-2101.8557	-76839560.6	-1.6483	174050.9295	##	E117-4	78.5900	94.2395
L_E117-1	2125.1673	77222873.36	3.0636	982422.9490	##	AA-OUT1	78.6200	94.1830
L_CI-57	4.5530	28456.6273	2.5383	175.9914	##	E117-3	78.5300	94.2370
L_CI-58	-12.4290	46371.6476	-0.9795	2924.5450	##	CI-66	88.0000	94.2720
L_MH-7	-22.1524	51828.0571	-1.7445	1277.8417	##	MH-11	84.6400	94.2713
L_CI-59	-6.0143	25003.5004	-3.3255	137.0880	##	CI-60	87.8300	94.1816
L_CI-65	41.2421	84550.4301	8.3011	257.2974	##	CI-62	87.0000	94.1854
L_MHI-39	15.4195	161802.8732	2.1596	1341.2398	##	CI-61	87.1300	94.1768
L_MHI-40	18.1246	239114.0514	2.5399	177.8440	##	MH-10	82.1100	94.1904
L_CI-66	-3.8561	11973.7635	-2.1409	53.7237	##	MH-10A	86.1100	94.1950
L_MH-11	19.8302	251092.8422	2.7756	3803.3983	##	CI-62A	87.3300	94.1969
L_CI-60	5.2696	16210.5558	2.9413	366.8031	##	MH-7A	83.0000	94.1872
L_CI-61	-11.1199	22426.5548	-3.4882	424.8494	##	MH-8	80.2900	94.1855
L_CI-62	-13.9604	54705.3036	-4.3831	95.5088	##	CI-59	86.3800	94.1965
L_CI-63	6.3469	33453.2964	3.5382	194.9798	##	CI-59A	87.3300	94.1898
L_CI-64	7.6566	82818.7533	2.4102	151.4967	##	MH-7	82.9300	94.1867
L_MH-10	32.2384	394674.3788	2.5421	2120.9538	##	CI-58	83.5600	94.1886
L_MH-8	-54.4753	471467.8049	-2.2723	4084.6475	##	CI-57	87.3900	94.2089
L_CI-59A	-9.8803	5470.2920	-5.4846	66.6915	##	MH-9	86.5700	94.2487
L_CI-62A	8.3434	5925.9608	4.6582	74.1016	##	CI-65	86.0300	94.2854
Link709	-14.2484	88755.5654	-4.4603	82.3352	##	MHI-40	84.7500	94.2748
Link710	7.1004	82827.5209	2.2333	674.3985	##	MHI-39	85.4700	94.2849
Link711	-22.1403	51819.8389	-1.7439	461.0769	##	CI-64	86.6500	94.2611
L_DI-12D	-9.9801	66469.5542	-3.1439	172.3845	##	CI-63	87.4600	94.2771
L_DI-12C	18.7305	1631912.607	4.8686	637.2742	##	DI-12C	81.4900	94.4608
Link732	283.1873	7686833.335	6.3947	972.5841	##	DI-12D	88.5600	94.2383
L_DI-12C2	17.3419	1631265.499	9.6807	441.9258	##	JCT-12C	81.2500	94.4437
L_DI-12D2	5.8848	63846.5960	3.3120	518.6595	##	DI-12C2	89.4200	97.5153
L_E117-OUT	2153.9521	77725542.63	2.5840	73029.7848	##	DI-12D2	90.1000	94.3074
L_GES-1	102.1399	2274969.014	7.9883	3135.3230	##	E117-OUT	78.5000	94.1800
L_GES-2	93.4561	2313456.741	7.3507	3161.6703	##	GES-1	81.8700	97.4791
L_GES-3	90.1420	2362265.285	5.5849	11055.3004	##	GES-2	81.4000	96.5138
L_GES-4	96.9605	2359589.965	6.0079	366.8008	##	GES-4	79.4700	94.3538
FREE # 1	2153.9441	77725615.97	0.0000	0.0000	##	GES-3	80.4100	95.6186

Table E15a - SPREADSHEET REACH LIST

Peak flow and Total Flow listed by Reach or those conduits or diversions having the same upstream and downstream nodes.

Upstream Node	Downstream Node	Maximum Flow (cfs)	Total Flow (ft^3)
DI-12A	MHI-38	-14.5049	1105.9988
MHI-38	MHI-38X	-15.0686	49319.6869
CI-54D	CI-54C	-4.9208	13565.1023
CI-56B	JCT-56B	-7.6982	8890.1882
CI-54C	CI-54BX	-5.2115	32576.0149
CI-54A	CI-54B	-3.8152	18640.3564
CI-54B	CI-54BX	-8.4664	64785.2424
MHI-36A	CI-54B	3.4703	25520.5458
JCT-56B	JCT-12C	274.4783	6054977.18
CI-36	CI-37	24.9499	62181.6285
CI-37	MHI-22	37.5159	90144.5366
CI-34	CI-35	27.7632	551451.904
CI-35	MHI-21	42.2553	823457.854
MHI-21	MHI-22	53.9501	894731.362
MHI-22	MHI-24	63.3466	1052536.90
CI-38	MHI-24	93.4045	1741955.18
MHI-23	MHI-24	21.7844	77268.8089
CI-39	MHI-23	43.7321	53415.8460
CI-40	JCT-40	15.2342	13443.5899
MHI-24	JCT-40	128.2408	2902483.70
JCT-40	MHI-26	129.1595	2915849.30
DI-6	CI-43	44.4054	674351.568
CI-43	MHI-26	44.2269	694843.086

DI-7	MHI-26	12.3280	86818.9523
DI-5	CI-41	23.3146	326173.201
CI-41	CI-42	22.0739	338595.845
DI-8	CI-42	11.0465	79038.5978
CI-42	MHI-25	31.9397	434335.566
MHI-25	MHI-26	34.6993	482948.338
MHI-26	MH-6	173.7622	4237412.57
MH-6	MHI-28	173.7434	4237209.14
DI-9	CI-44	10.2355	111003.854
CI-44	MHI-28	17.5706	130741.646
DI-10	CI-45	21.3144	96985.8529
CI-45	MHI-27	21.9691	129856.395
DI-11	MHI-27	12.5569	109756.097
MHI-27	MHI-28	27.5805	264503.805
MHI-28	MHI-30	199.5762	4658599.36
DI-12	CI-46	16.5338	82503.2745
CI-46	MHI-30	17.7208	90835.1427
CI-47	MHI-29	15.0702	360035.850
MHI-29	MHI-30	15.9766	380618.376
MHI-30	MHI-32	217.7300	5153178.10
CI-48	MHI-32	14.2363	23951.6238
CI-49	MHI-31	8.8577	33107.1101
MHI-31	MHI-32	10.2915	66703.8508
MHI-32	MHI-34	223.5207	5273928.05
CI-50	MHI-34	36.7318	419353.602
CI-51	MHI-33	8.7823	85613.7342
MHI-33	MHI-34	12.3109	111968.252
JCT-52	MHI-36	261.6984	5834240.82
CI-52	JCT-52	7.8315	6608.0698
CI-53	MHI-36	9.8728	26888.4234
CI-54	MHI-35	8.0071	30654.0239
MHI-35	MHI-36	9.5184	63857.6468
MHI-36	MHI-37	266.5203	5965963.91
CI-55	CI-56A	7.8489	23928.5579
CI-56A	MHI-37	16.1678	37688.1778
MHI-37	JCT-56B	273.3149	6046253.35
MHI-34	JCT-52	260.8821	5827612.53
CI-54BX	MHI-38X	1864.0045	68899392.2
MHI-38X	E117-4	1862.8511	69021280.7
E117-4	E117-3	1864.8493	69013284.0
MHI-37X	E117-3	1865.4686	69005195.0
MHI-56X	MHI-37X	2101.8557	76839560.6
MHI-56X	AA-OUT1	2125.1673	77222873.4
CI-57	CI-58	4.5530	28456.6273
CI-58	MH-7A	-12.4290	46371.6476
MH-7	MH-8	-22.1524	51828.0571
CI-59	MH-8	-6.0143	25003.5004
CI-65	MHI-39	41.2421	84550.4301
MHI-39	MHI-40	15.4195	161802.873
MHI-40	MH-11	18.1246	239114.051
CI-66	MH-11	-3.8561	11973.7635
MH-11	MH-10	19.8302	251092.842
CI-60	CI-61	5.2696	16210.5558
CI-61	CI-62	-11.1199	22426.5548
CI-62	MH-10	-13.9604	54705.3036
CI-63	CI-64	6.3469	33453.2964
CI-64	MH-9	7.6566	82818.7533
MH-10	MH-8	32.2384	394674.379
MH-8	AA-OUT1	-54.4753	471467.805
CI-59A	MH-7A	-9.8803	5470.2920
CI-62A	MH-10A	8.3434	5925.9608
MH-10A	MH-10	-14.2484	88755.5654
MH-9	MH-10A	7.1004	82827.5209
MH-7A	MH-7	-22.1403	51819.8389

DI-12D	MHI-37X	-9.9801	66469.5542
DI-12C	JCT-12C	18.7305	1631912.61
JCT-12C	MHI-37X	283.1873	7686833.34
DI-12C2	DI-12C	17.3419	1631265.50
DI-12D2	DI-12D	5.8848	63846.5960
AA-OUT1	E117-OUT	2153.9521	77725542.6
GES-1	GES-2	102.1399	2274969.01
GES-2	GES-3	93.4561	2313456.74
GES-3	GES-4	90.1420	2362265.28
GES-4	CI-54BX	96.9605	2359589.97

Table E19 - Junction Inflow & Outflow Listing
Units are either ft^3 or m^3 depending on the units in your model.

Junction Name	Constant Inflow to Node	User Inflow to Node	Interface Inflow to Node	DWF Inlow to Node	Inflow through Outfall	RNF Layer Inflow to Node	Outflow from Node	Evaporation from Node	Inflow from 2D Layer
CI-54D	0.0000	13059.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
CI-54C	0.0000	18108.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
MHI-38	0.0000	46791.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
MHI-38X	0.0000	65277.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
CI-54BX	0.0000	66.4378E+06	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
CI-54A	0.0000	18036.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
CI-54B	0.0000	19818.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
CI-56B	0.0000	8451.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
MHI-36A	0.0000	24156.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
MHI-56X	0.0000	356035.5750	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
MHI-23	0.0000	24093.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
CI-56A	0.0000	8496.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
CI-55	0.0000	14166.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
MHI-37	0.0000	42093.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
MHI-37X	0.0000	79659.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
MHI-36	0.0000	40059.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
CI-53	0.0000	17829.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
MHI-35	0.0000	31905.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
CI-54	0.0000	22788.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
CI-46	0.0000	8055.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
DI-12	0.0000	81949.5050	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
MHI-30	0.0000	22977.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
MHI-32	0.0000	29871.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
CI-48	0.0000	19458.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
CI-50	0.0000	399406.5550	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
CI-52	0.0000	6390.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
MHI-34	0.0000	22590.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
MHI-33	0.0000	24444.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
CI-51	0.0000	79888.5050	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
MHI-31	0.0000	31473.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
CI-49	0.0000	25974.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
MHI-29	0.0000	23976.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
CI-47	0.0000	356953.5550	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
CI-44	0.0000	12186.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
DI-9	0.0000	111363.7545	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
MHI-28	0.0000	26532.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
MHI-27	0.0000	25443.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
DI-11	0.0000	109750.5050	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
DI-10	0.0000	97398.0400	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
MHI-26	0.0000	54540.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
MHI-25	0.0000	49644.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
DI-7	0.0000	87408.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
DI-6	0.0000	671557.9850	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
DI-8	0.0000	79551.0100	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
DI-5	0.0000	328185.1000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
CI-43	0.0000	11979.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
CI-42	0.0000	16173.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
CI-41	0.0000	12861.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
CI-40	0.0000	12447.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	

CI-38	0.0000	1.7396E+06	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CI-37	0.0000	11160.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CI-36	0.0000	41202.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
MHI-24	0.0000	29232.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
MHI-22	0.0000	68008.5050	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CI-39	0.0000	37116.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CI-35	0.0000	273622.6150	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CI-34	0.0000	547758.3800	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
MHI-21	0.0000	75784.5050	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CI-45	0.0000	7848.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CI-66	0.0000	11493.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CI-60	0.0000	11439.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CI-62	0.0000	31779.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CI-61	0.0000	4428.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CI-62A	0.0000	5220.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CI-59	0.0000	24102.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CI-59A	0.0000	4788.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CI-58	0.0000	16704.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CI-57	0.0000	26559.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CI-65	0.0000	16524.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
MHI-40	0.0000	74565.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
MHI-39	0.0000	76765.5050	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CI-64	0.0000	47677.5150	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CI-63	0.0000	28278.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
DI-12C2	0.0000	1.6260E+06	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
DI-12D2	0.0000	62127.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
E117-OUT	0.0000	0.0000	0.0000	0.0000	218.7863	0.0000	77.7258E+06	0.0000
GES-1	0.0000	2.1984E+06	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Table E20 - Junction Flooding and Volume Listing. The maximum volume is the total volume in the node including the volume in the flooded storage area. This is the max volume at any time. The volume in the flooded storage area is the total volume above the ground elevation, where the flooded pond storage area starts. The fourth column is instantaneous, the fifth is the sum of the flooded volume over the entire simulation. Units are either ft^3 or m^3 depending on the units.

Junction Name	Surcharged Time (min)	Flooded Time(min)	Out of 1D-System (Flooded Volume)	Maximum Volume	Passed to 2D cell OR Volume Stored in allowed Flood Pond of 1D-System
CI-54D	686.9167	504.9583	0.0000	26927.5170	30891.1662
CI-54C	690.6000	457.0167	0.0000	14521.1743	16374.1641
DI-12A	729.8167	562.0500	0.0000	69187.6307	79335.6063
MHI-38	739.3000	506.2750	0.0000	30007.3253	33479.8838
MHI-38X	0.0000	0.0000	0.0000	196.7261	0.0000
CI-54BX	0.0000	0.0000	0.0000	195.5340	0.0000
CI-54A	714.6000	495.1417	0.0000	23643.2245	27344.2527
CI-54B	718.1667	492.6000	0.0000	12766.7678	14164.8796
CI-56B	909.3333	492.1667	0.0000	15874.3243	17767.7222
JCT-56B	740.1000	480.9417	0.0000	165.1925	130.1140
MHI-36A	714.6000	492.3083	0.0000	22883.8350	25951.2570
MHI-56X	0.0000	0.0000	0.0000	183.6826	0.0000
MHI-23	447.0333	279.6500	0.0000	45839.7056	60190.7715
CI-56A	718.7500	474.1667	0.0000	26797.8087	31983.0882
CI-55	699.8167	473.2833	0.0000	17107.2079	20588.4694
MHI-37	725.1500	482.9917	0.0000	35030.0466	49292.7023
MHI-37X	0.0000	0.0000	0.0000	193.8503	0.0000
MHI-36	657.8000	491.3167	0.0000	49905.6665	65721.2201
CI-53	650.5333	446.8667	0.0000	22847.9337	26812.4763
MHI-35	637.6417	512.1583	0.0000	57992.2147	66719.5825
CI-54	631.5500	446.1167	0.0000	22840.7463	27061.0476
CI-46	583.3250	261.9500	0.0000	6837.7085	7656.2966
DI-12	577.7917	522.0000	0.0000	38855.6508	56019.2279
MHI-30	591.6167	0.0000	0.0000	146.7916	0.0000
MHI-32	609.6833	316.6833	0.0000	17610.0466	20095.5247
CI-48	604.7583	314.2250	0.0000	11751.0851	13486.0675

CI-50	622.0500	386.2167	0.0000	25532.8203	32184.1920
CI-52	729.4000	394.9167	0.0000	27382.8420	31877.0431
MHI-34	625.0417	387.3000	0.0000	27368.3760	43038.2102
JCT-52	633.1167	374.2000	0.0000	148.4917	622.8734
MHI-33	610.1417	480.0667	0.0000	63327.6024	72235.4654
CI-51	603.9750	393.0417	0.0000	22422.2234	26863.0196
MHI-31	593.8250	418.2750	0.0000	46117.7277	51645.7861
CI-49	582.1833	331.0000	0.0000	10363.3520	12244.3430
MHI-29	590.5500	524.5417	0.0000	92792.5658	108954.5519
CI-47	586.1167	524.2500	0.0000	110672.5753	130339.4881
CI-44	568.5167	234.5583	0.0000	3530.0423	5342.2877
DI-9	562.7917	508.4667	0.0000	15621.7832	40062.3655
MHI-28	574.3500	243.6667	0.0000	5362.0288	10596.2871
MHI-27	557.0000	303.9250	0.0000	18569.5042	23071.5159
DI-11	551.4750	344.7083	0.0000	23185.4598	27002.0965
DI-10	550.2917	400.4083	0.0000	21196.3438	31025.2784
MHI-26	551.5083	188.3333	0.0000	2679.6756	3837.4419
MHI-25	534.3083	282.0583	0.0000	13330.1486	15742.1494
MH-6	566.2167	0.0000	0.0000	137.1351	0.0000
DI-7	540.2750	335.3000	0.0000	15927.6697	18905.5526
DI-6	534.8417	382.0583	0.0000	220441.2694	245520.2700
DI-8	521.1750	315.0167	0.0000	11888.7380	13717.5010
DI-5	495.7833	337.8500	0.0000	93847.2305	110679.5274
CI-43	541.0750	159.2750	0.0000	1231.6025	1989.3036
CI-42	529.9500	178.4250	0.0000	2029.1839	2339.5900
CI-41	506.5250	0.0000	0.0000	87.3326	0.0000
CI-40	570.3167	149.7917	0.0000	1420.7924	1834.8748
CI-38	484.5750	254.1750	0.0000	156459.6428	184181.8732
CI-37	401.6333	224.7000	0.0000	5371.4446	18709.9034
CI-36	375.9417	160.1333	0.0000	1542.0274	5485.1491
MHI-24	480.7667	225.5917	0.0000	12800.3019	14780.5458
MHI-22	419.3500	250.3583	0.0000	13809.0897	29638.1615
JCT-40	530.3333	288.8667	0.0000	121.9581	1719.8279
CI-39	431.9333	250.3500	0.0000	12862.0833	18028.9738
CI-35	382.7750	289.2917	0.0000	70044.2193	82912.5827
CI-34	355.8167	290.1083	0.0000	25175.9863	30145.5708
MHI-21	389.2000	302.3500	0.0000	73660.0567	86285.4898
CI-45	551.6833	238.0583	0.0000	2482.5536	6769.7561
E117-4	0.0000	0.0000	0.0000	196.6518	0.0000
AA-OUT1	0.0000	0.0000	0.0000	195.5644	0.0000
E117-3	0.0000	0.0000	0.0000	197.3743	0.0000
CI-66	691.0000	447.3333	0.0000	12155.2289	13709.1209
MH-11	694.7500	339.3500	0.0000	121.0272	13.2754
CI-60	703.2500	499.8583	0.0000	18891.5845	22025.3664
CI-62	727.1167	532.4000	0.0000	17815.0505	21639.2120
CI-61	717.7833	522.6833	0.0000	33011.8126	38282.5803
MH-10	732.2167	526.0583	0.0000	151.8022	307.2959
MH-10A	745.4833	545.2917	0.0000	101.5956	485.2494
CI-62A	739.5333	516.2583	0.0000	31890.7729	36788.7150
MH-7A	744.7167	353.1417	0.0000	140.5780	13.3877
MH-8	821.7500	530.8083	0.0000	174.6115	253.4697
CI-59	810.4667	531.0917	0.0000	17739.2507	19622.7021
CI-59A	739.6000	503.5917	0.0000	31629.7333	35531.8357
MH-7	883.2667	474.3417	0.0000	141.4517	66.0390
CI-58	750.7333	482.7417	0.0000	12885.4008	14315.0853
CI-57	735.0333	476.0583	0.0000	19073.3341	21274.7182
MH-9	759.0500	503.7750	0.0000	96.4911	151.8023
CI-65	761.8917	437.3833	0.0000	5736.1570	18043.3809
MHI-40	782.8333	522.0083	0.0000	33733.8743	36318.3510
MHI-39	766.3167	503.3417	0.0000	30403.7878	69996.6928
CI-64	752.9667	526.1000	0.0000	15892.2895	18810.3158
CI-63	730.0167	511.3000	0.0000	24627.9516	28064.5761
DI-12C	632.1667	559.4000	0.0000	12198.3652	13822.6785
DI-12D	584.9833	494.9500	0.0000	27759.3412	29339.2678

JCT-12C	748.3333	421.1917	0.0000	165.7926	23.6851	
DI-12C2	1772.0333	0.0000	0.0000	173694.8024	0.0000	
DI-12D2	554.2000	0.0000	0.0000	23284.0334	0.0000	
E117-OUT	0.0000	0.0000	0.0000	197.0349	0.0000	
GES-1	974.4167	537.8333	0.0000	262480.3853	346598.4489	
GES-2	1024.5917	514.4500	0.0000	96970.2693	171325.5765	
GES-4	1236.5500	604.7000	0.0000	169865.4752	241792.6721	
GES-3	1088.6333	540.7833	0.0000	63739.7806	141285.2122	

==================================
| Simulation Specific Information |
==================================

Number of Input Conduits.....	97	Number of Simulated Conduits.....	98
Number of Natural Channels.....	7	Number of Junctions.....	98
Number of Storage Junctions.....	19	Number of Weirs.....	0
Number of Orifices.....	0	Number of Pumps.....	0
Number of Free Outfalls.....	1	Number of Tide Gate Outfalls.....	0

===
| Average % Change in Junction or Conduit is defined as: |
| Conduit % Change ==> 100.0 (Q(n+1) - Q(n)) / Qfull |
| Junction % Change ==> 100.0 (Y(n+1) - Y(n)) / Yfull |
===

The Conduit with the largest average change was..FREE # 1   with   6.373 percent
The Junction with the largest average change was.GES-2   with   0.588 percent
The Conduit with the largest sinuosity was.......L_CI-65   with   583.456

==
| Table E21. Continuity balance at the end of the simulation |
| Junction Inflow, Outflow or Street Flooding |
| Error = Inflow + Initial Volume - Outflow - Final   Volume |
==

Inflow Junction	Inflow Volume,ft^3	Average Inflow, cfs
CI-54D	13059.0078	0.0484
CI-54C	18108.0113	0.0671
MHI-38	46791.0278	0.1733
MHI-38X	65277.4040	0.2418
CI-54BX	66.43774E+06	246.0657
CI-54A	18036.0109	0.0668
CI-54B	19818.0118	0.0734
CI-56B	8451.0554	0.0313
MHI-36A	24156.0113	0.0895
MHI-56X	356039.2102	1.3187
MHI-23	24093.0000	0.0892
CI-56A	8496.0554	0.0315
CI-55	14166.0071	0.0525
MHI-37	42093.1975	0.1559
MHI-37X	79659.0364	0.2950
MHI-36	40059.0151	0.1484
CI-53	17829.1073	0.0660
MHI-35	31905.1749	0.1182
CI-54	22788.1107	0.0844
CI-46	8055.0000	0.0298
DI-12	81949.8027	0.3035
MHI-30	22977.0158	0.0851
MHI-32	29871.0158	0.1106
CI-48	19458.0122	0.0721
CI-50	399409.3965	1.4793
CI-52	6390.0371	0.0237
MHI-34	22590.0151	0.0837
MHI-33	24444.0144	0.0905
CI-51	79888.7846	0.2959
MHI-31	31473.0144	0.1166
CI-49	25974.0124	0.0962
MHI-29	23976.0156	0.0888
CI-47	356955.9932	1.3221
CI-44	12186.0089	0.0451
DI-9	111364.2079	0.4125
MHI-28	26532.0138	0.0983
MHI-27	25443.0127	0.0942
DI-11	109750.8802	0.4065
DI-10	97398.6788	0.3607
MHI-26	54540.0231	0.2020

MHI-25	49644.0186	0.1839
DI-7	87408.4612	0.3237
DI-6	671561.5789	2.4873
DI-8	79551.6476	0.2946
DI-5	328187.8026	1.2155
CI-43	11979.0826	0.0444
CI-42	16173.0111	0.0599
CI-41	12861.1627	0.0476
CI-40	12447.0064	0.0461
CI-38	1.73962E+06	6.4430
CI-37	11160.0584	0.0413
CI-36	41202.1853	0.1526
MHI-24	29232.0262	0.1083
MHI-22	68008.5236	0.2519
CI-39	37116.1570	0.1375
CI-35	273625.2110	1.0134
CI-34	547762.5135	2.0288
MHI-21	75784.5211	0.2807
CI-45	7848.0000	0.0291
CI-66	11493.0767	0.0426
CI-60	11439.0767	0.0424
CI-62	31779.0196	0.1177
CI-61	4428.0247	0.0164
CI-62A	5220.0062	0.0193
CI-59	24102.0184	0.0893
CI-59A	4788.0056	0.0177
CI-58	16704.0118	0.0619
CI-57	26559.0136	0.0984
CI-65	16524.0554	0.0612
MHI-40	74565.4116	0.2762
MHI-39	76765.7690	0.2843
CI-64	47677.7289	0.1766
CI-63	28278.0932	0.1047
DI-12C2	1.62596E+06	6.0221
DI-12D2	62127.3258	0.2301
E117-OUT	218.7863	0.0008
GES-1	2.19839E+06	8.1422
E117-OUT	-77.726E+06	-287.8735

Outflow Junction	Outflow Volume,ft^3	Average Outflow, cfs
E117-OUT	77.72584E+06	287.8735

===

Initial system volume	= 0.0004 Cu Ft
Total system inflow volume	= 77.227363E+06 Cu Ft
Inflow + Initial volume	= 77.227363E+06 Cu Ft

===

Total system outflow	= 77.725835E+06 Cu Ft
Volume left in system	= 48201.9229 Cu Ft
Evaporation	= 0.0000 Cu Ft
Outflow + Final Volume	= 77.774037E+06 Cu Ft

===

==
| Total Model Continuity Error |
| Error in Continuity, Percent = -0.7079 |
| Error in Continuity, ft^3 = -546673.401 |
| + Error means a continuity loss, - a gain |
==

##
Table E22. Numerical Model judgement section
##

Your overall error was -0.7079 percent

Worst nodal error was in node GES-1 with -1.7211 percent

Of the total inflow this loss was 0.0997 percent

```
Your overall continuity error was                  Excellent

                                                  Excellent Efficiency

Efficiency of the simulation                       1.46

Most Number of Non Convergences at one Node        0.

Total Number Non Convergences at all Nodes         0.

Total Number of Nodes with Non Convergences        0.

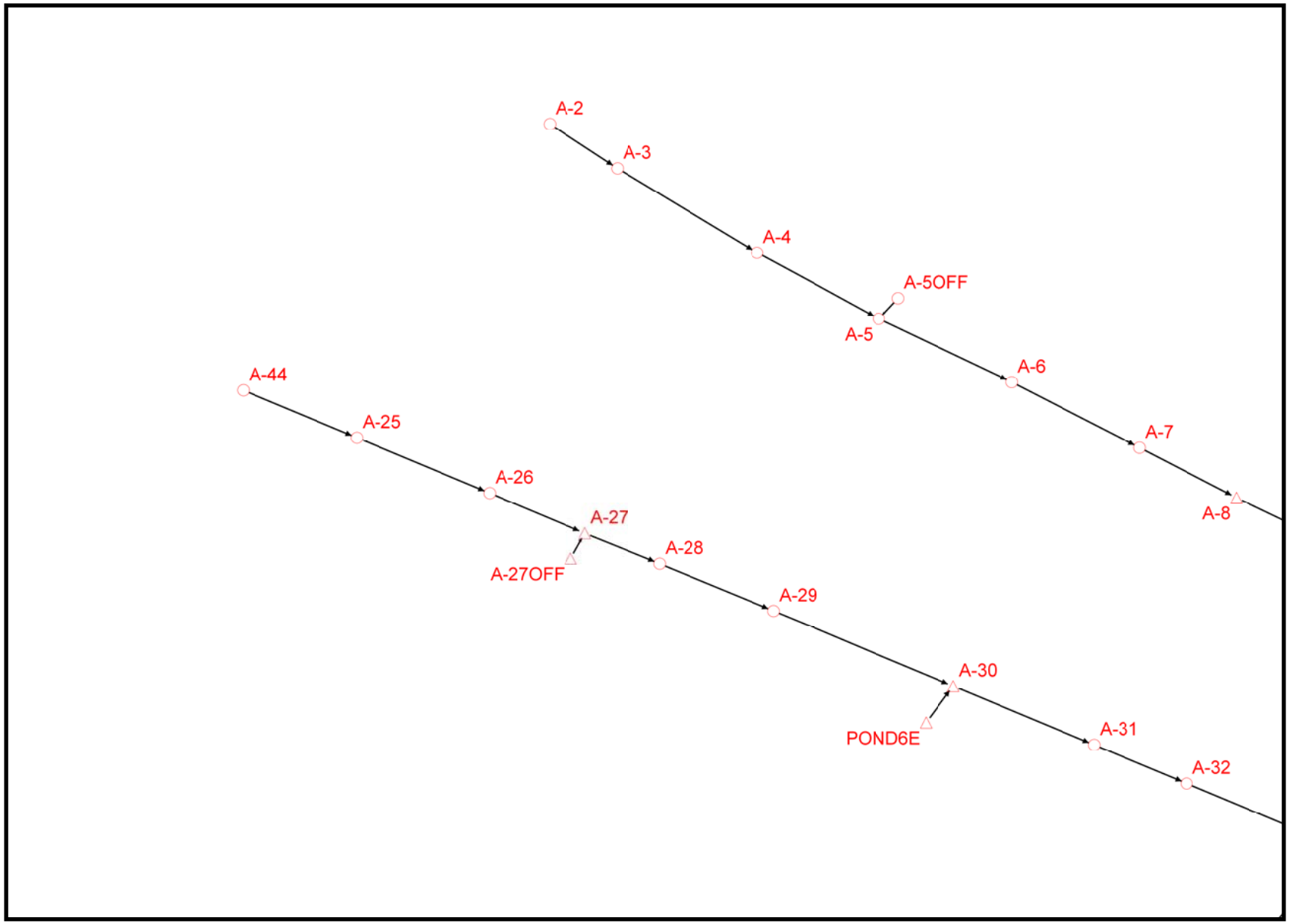

===> Hydraulic model simulation ended normally.
===> XP-SWMM Simulation ended normally.


===> Your input file was named  : P:\PROJECTS\290PMC\PHASEII\DRA\Models\SWMM\Outfalls 9-16\SWMM\Report 6-2011\Existing\US290_SegB_EX_A&AA_NS(Final).DAT
===> Your output file was named : P:\PROJECTS\290PMC\PHASEII\DRA\Models\SWMM\Outfalls 9-16\SWMM\Report 6-2011\Existing\US290_SegB_EX_A&AA_NS(Final).out

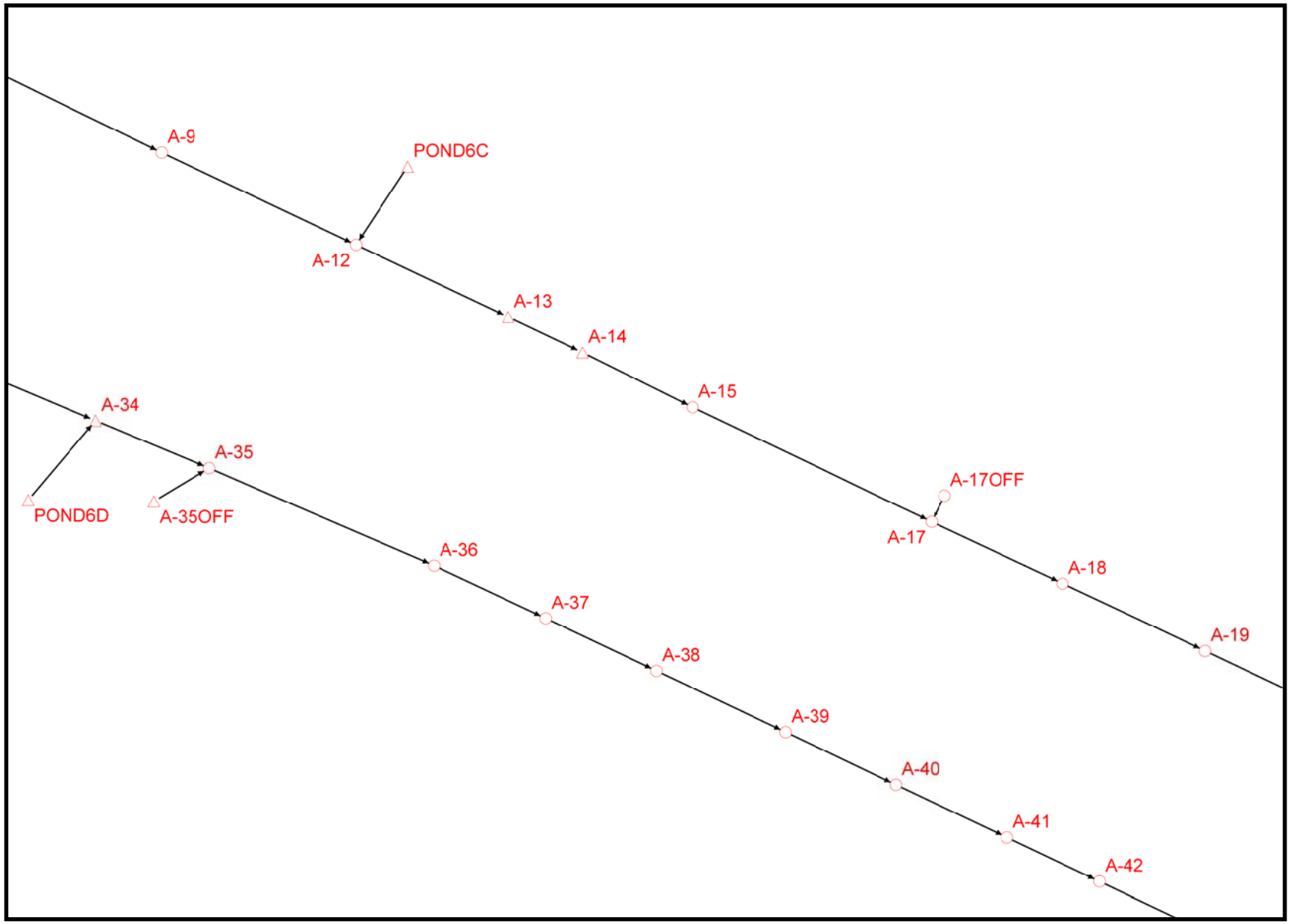
*================================================================*
|             SWMM Simulation Date and Time Summary              |
*================================================================*
| Starting Date... June       21, 2011  Time...   16:46:58: 8  |
|   Ending Date... June       21, 2011  Time...   17:19:18:56  |
|  Elapsed Time...   32.34133 minutes or   1940.48000 seconds  |
*================================================================*
```

OUTFALL 9-10
SWMM OUTPUT
100 YR- MITIGATED CONDITIONS

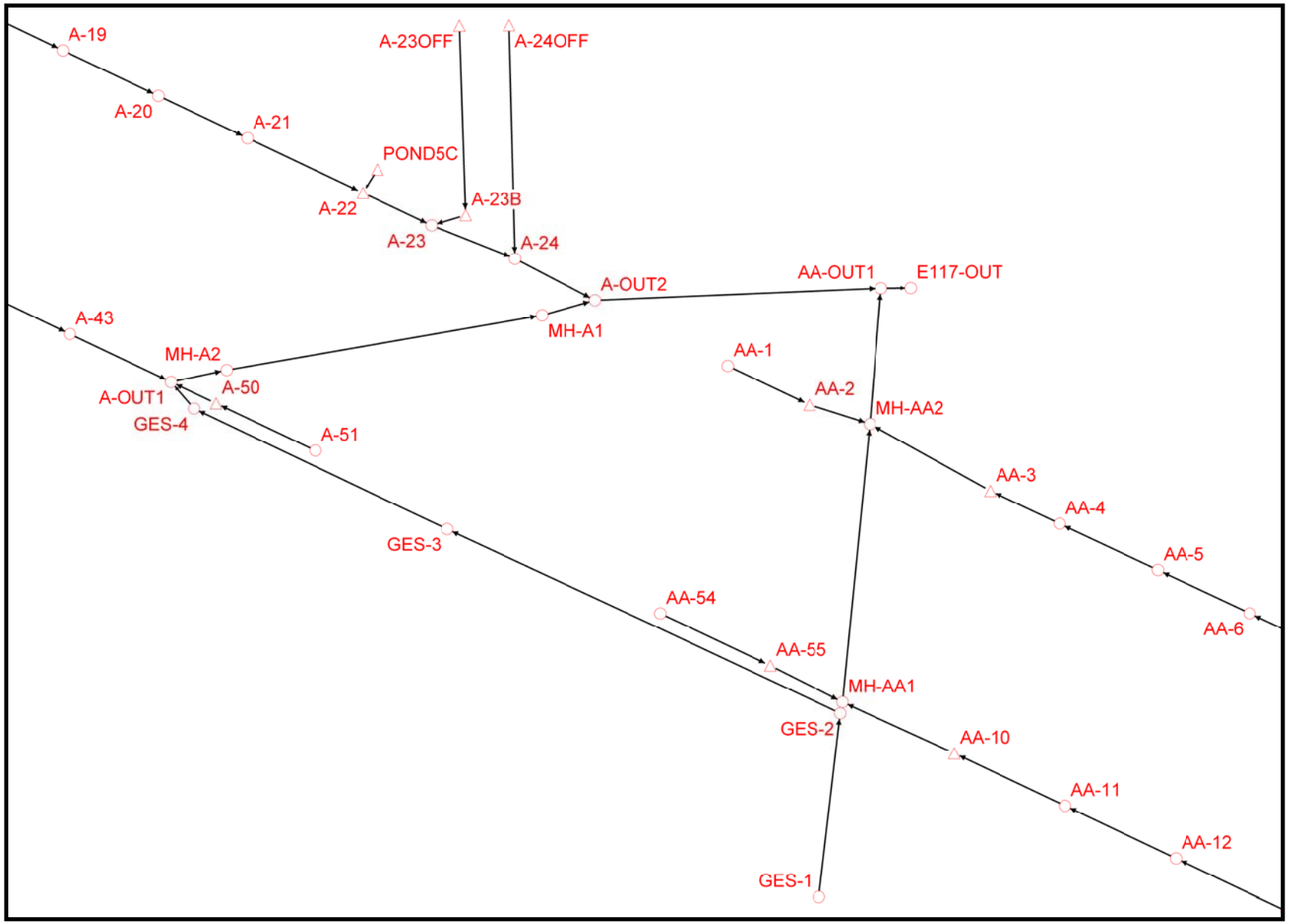
OUTFALL 9 & 10
MITIGATED CONDITIONS SWMM LAYOUT



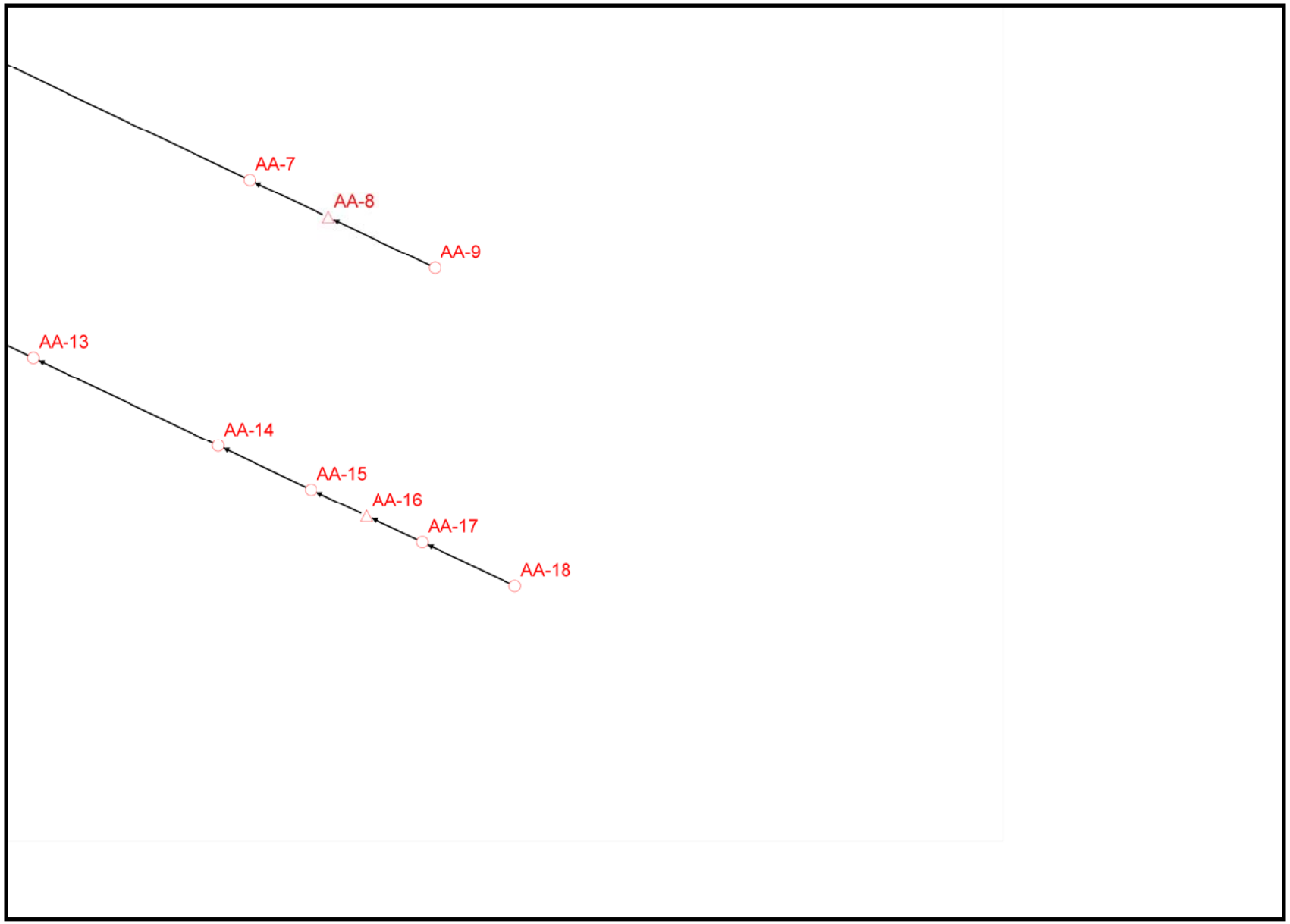
OUTFALL 9 & 10
MITIGATED CONDITIONS SWMM LAYOUT



OUTFALL 9 & 10
MITIGATED CONDITIONS SWMM LAYOUT



OUTFALL 9 & 10
MITIGATED CONDITIONS SWMM LAYOUT



```
 Current Directory:   C:\XPS\xpstorm
 Engine Name: C:\XPS\xpstorm\SWMMEN~1.EXE


 Input File : falls 9-16\SWMM\Report 6-2011\Mitigated\US290_Mit_SegB_SysA&AA.XP

          *================================================*
          |                     xpswmm                     |
          |     Storm and Wastewater Management Model      |
          |           Interface Version: 10.52             |
          |              Engine Version: 10.54             |
          |================================================|
          |                                                |
          |                 Developed by                   |
          |                                                |
          |                 XP Software                    |
          |                                                |
          |================================================|
          |      XP Software       November, 2006          |
          |       Data File Version --->    11.9           |
          |       Serial Number: 66-1052-0602              |
          |                H & H Resources                 |
          *================================================*

Engine Name: C:\XPS\xpstorm\SWMMEN~1.EXE


*====================================================*
|       Input and Output file names by Layer         |
*====================================================*

 Input File  to Layer #     1 JOT.US
 Output File to Layer #     1 JOT.US

*============================================================*
|   Special command line arguments in XP-SWMM2000. This     |
|   now includes program defaults. $Keywords are the program|
|   defaults.  Other Keywords are from the SWMMCOM.CFG file.|
|   or the command line or any cfg file on the command line.|
|   Examples include these in the file xpswm.bat under the   |
|   section :solve or in the windows version XPSWMM32 in the|
|   file solve.bat                                           |
|                                                            |
|   Note: the cfg file should be in the subdirectory swmxp   |
|         or defined by the set variable in the xpswm.bat    |
|         file.  Some examples of the command lines possible|
|         are shown below:                                   |
|                                                            |
|   swmmd swmmcom.cfg                                        |
|   swmmd my.cfg                                             |
|   swmmd nokeys nconv5 perv extranwq                        |
*============================================================*

 $powerstation                        0.0000         1         2
 $perv                                0.0000         0         4
 $oldegg                              0.0000         0         7
 $as                                  0.0000         0        11
 $noflat                              0.0000         0        21
 $oldomega                            0.0000         0        24
 $oldvol                              0.0000         1        28
 $implicit                            0.0000         1        29
 $oldhot                              0.0000         1        31
 $oldscs                              0.0000         0        33
 $flood                               0.0000         1        40
 $nokeys                              0.0000         0        42
 $pzero                               0.0000         0        55
 $oldvol2                             0.0000         2        59
 $storage2                            0.0000         3        62
 $oldhot1                             0.0000         1        63
 $pumpwt                              0.0000         1        70
 $ecloss                              0.0000         1        77
 $exout                               0.0000         0        97
 SPATIAL=0.55                         0.5500         5       124
 $djref = -1.0                       -0.1000         3       143
 $weirlen = 50                       50.0000         1       153
 $oldbnd                              0.0000         1       154
 $nogrelev                            0.0000         1       161
 $ncmid                               0.0000         0       164
 $new_nl_97                           0.0000         2       290
 $best97                              0.0000         1       294
 $newbound                            0.0000         1       295
 $q_tol = 0.01                        0.0001         1       316
 $new_storage                         0.0000         1       322
 $old_iteration                       0.0000         1       333
 MINLEN=10                           10.0000         1       346
 $review_elevation                    0.0000         1       383
 $use_half_volume                     0.0000         1       385
 $min_ts = 0.5                        0.5000         1       407
 $design_restart = on                 0.0000         1       412
 $zero_value=1.e-05                   0.0000         1       415
 $relax_depth = on                    0.0000         1       427
 $saveallpts = on                     0.0000         1       434

 *============================================================*
 | Parameter Values on the Tapes Common Block.These are the |
 | values read from the data file and dynamically allocated |
 | by the model for this simulation.                        |
 *============================================================*

  Number of Subcatchments in the Runoff Block (NW)....     0
  Number of Channel/Pipes in the Runoff Block (NG)....     0
  Runoff Water quality constituents (NRQ).............     0
  Runoff Land Uses per Subcatchment (NLU).............     0
  Number of Elements in the Transport Block (NET).....     0
  Number of Storage Junctions in Transport (NTSE).....     0
  Number of Input Hydrographs in Transport (NTH)......     0
  Number of Elements in the Extran Block (NEE)........    86
  Number of Groundwater Subcatchments in Runoff (NGW).     0
  Number of Interface locations for all Blocks (NIE)..    86
  Number of Pumps in Extran (NEP).....................     0
  Number of Orifices in Extran (NEO)..................     0
  Number of Tide Gates/Free Outfalls in Extran (NTG)..     1
  Number of Extran Weirs (NEW)........................     0
  Number of scs hydrograph points.....................     1
  Number of Extran printout locations (NPO)...........     0
  Number of Tide elements in Extran (NTE).............     1
  Number of Natural channels (NNC)....................     7
  Number of Storage junctions in Extran (NVSE)........    23
  Number of Time history data points in Extran(NTVAL).   300
  Number of Variable storage elements in Extran (NVST)    11
  Number of Input Hydrographs in Extran (NEH).........    73
  Number of Particle sizes in Transport Block (NPS)...     0
  Number of User defined conduits (NHW)...............    86
  Number of Connecting conduits in Extran (NECC)......    20
  Number of Upstream elements in Transport (NTCC).....    10
  Number of Storage/treatment plants (NSTU)...........     1
```

```
 Number of Values for R1 lines in Transport (NR1)....     0
 Number of Nodes to be allowed for (NNOD)............    86
 Number of Plugs in a Storage Treatment Unit.........     1


####################################################
#    Entry made to the HYDRAULIC Layer(Block) of SWMM #
#    Last Updated June,2005 by XP Software          #

    US 290/ Hempstead Highway Corridor - From W.Little York to Hollister
    Drainage Impact & Mitigation Study - Existing Conditions - SegB_SysA -1


*==========================================================*
|        HYDRAULICS TABLES IN THE OUTPUT FILE              |
|  These are the more important tables in the output file.  |
|  You can use your editor to find the table numbers,       |
|  for example: search for Table E20 to check continuity.   |
|  This output file can be imported into a Word Processor   |
|  and printed on US letter or A4 paper using portrait      |
|  mode, courier font, a size of 8 pt. and margins of 0.75  |
|                                                           |
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| Table E5   - Junction Time Step Limitation Summary        |
| Table E5a  - Conduit Explicit Condition Summary           |
| Table E6   - Final Model Condition                        |
| Table E7   - Iteration Summary                            |
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| Table E11  - Area assumptions used in the analysis        |
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| Table E21  - Continuity balance at simulation end         |
| Table E22  - Model Judgement Section                      |
*==========================================================*

Time Control from Hydraulics Job Control
Year.........    1995 Month.......       1
Day..........       1 Hour........       0
Minute.......       0 Second......       0


Control information for simulation
----------------------------------

Integration cycles..................    270000
Length of integration step is......      1.00 seconds
Simulation length...................     75.00 hours
Do not create equiv. pipes(NEQUAL).         0
Use U.S. customary units for I/O...         0
Printing starts in cycle...........         1
Intermediate printout intervals of.       500 cycles
Intermediate printout intervals of.      8.33 minutes
Summary printout intervals of......       500 cycles
Summary printout time interval of..      8.33 minutes
Hot start file parameter (REDO)....         0
Initial time.......................      0.00 hours

Iteration variables: Flow Tolerance.   0.00010
                     Head Tolerance.   0.00010
    Minimum depth (m or ft).........   0.00001
    Underrelaxation parameter.......   0.85000
    Time weighting parameter........   0.85000
    Conduit roughness factor........   1.00000
    Flow adjustment factor..........   1.00000
    Initial Condition Smoothing.....         0
    Courant Time Step Factor........   1.00000
    Default Expansion/Contraction K.   0.00000
    Default Entrance/Exit K.........   0.00000
    Routing Method..................   Dynamic Wave
Default surface area of junctions...     12.57 square feet.
Minimum Junction/Conduit Depth......   0.00001 feet.
Ponding Area Coefficient............   5000.00
Ponding Area Exponent...............    1.0000
Minimum Orifice Length..............    500.00 feet.
NJSW input hydrograph junctions.....    73
     or user defined hydrographs....

        Natural Cross-Section information for Channel L_L-A-OUT1
        ========================================================
         Cross-Section ID (from X1 card) :     1.0 Channel sequence number :     1

  Left Overbank Length   :     70.0 ft               Maximum Elevation        :   104.96 ft.
  Main Channel Length    :     70.0 ft               Maximum Depth            :    26.27 ft.
  Right Overbank Length  :     70.0 ft               Maximum Section Area     : 28333.85 ft^2
                                                     Maximum hydraulic radius :    11.27 ft.
  Manning N :      0.990  to Station        3484.2    Max topwidth             :  2486.91 ft.
    "    "  :      0.015  in main Channel            Maximum Wetted Perimeter : 2.51E+03 ft
    "    "  :      0.050  Beyond station    3587.1    Max left bank area       : 11296.34 ft^2
                                                     Max right bank area      : 14807.02 ft^2
  Allowable Encroachment Depth :    0.00 ft          Max center channel area  : 2230.496 ft^2

        Natural Cross-Section information for Channel L_L-MH-A3
        =======================================================
         Cross-Section ID (from X1 card) :     2.0 Channel sequence number :     2

  Left Overbank Length   :    424.0 ft               Maximum Elevation        :   113.84 ft.
  Main Channel Length    :    424.0 ft               Maximum Depth            :    35.15 ft.
  Right Overbank Length  :    424.0 ft               Maximum Section Area     : 51443.84 ft^2
                                                     Maximum hydraulic radius :    19.77 ft.
  Manning N :      0.990  to Station        4128.6    Max topwidth             :  2573.89 ft.
    "    "  :      0.015  in main Channel            Maximum Wetted Perimeter : 2.60E+03 ft
    "    "  :      0.050  Beyond station    4373.6    Max left bank area       : 24005.25 ft^2
                                                     Max right bank area      : 21122.19 ft^2
  Allowable Encroachment Depth :    0.00 ft          Max center channel area  : 6316.403 ft^2

        Natural Cross-Section information for Channel L_L-MH-A1
        =======================================================
         Cross-Section ID (from X1 card) :     3.0 Channel sequence number :     3
```

```
 Left Overbank Length   :     70.0 ft               Maximum Elevation        :   113.86 ft.
 Main Channel Length    :     70.0 ft               Maximum Depth            :    34.83 ft.
 Right Overbank Length  :     70.0 ft               Maximum Section Area     : 40824.58 ft^2
                                                    Maximum hydraulic radius :    19.35 ft.
 Manning N :      0.990  to Station        3485.0    Max topwidth             :  2087.86 ft.
   "    "  :      0.015  in main Channel             Maximum Wetted Perimeter : 2.11E+03 ft
   "    "  :      0.050  Beyond station    3588.2    Max left bank area       : 26055.38 ft^2
                                                    Max right bank area      : 11809.73 ft^2
 Allowable Encroachment Depth :    0.00 ft           Max center channel area  : 2959.471 ft^2

       Natural Cross-Section information for Channel L_L-A-OUT2
       ========================================================
        Cross-Section ID (from X1 card) :     4.0 Channel sequence number :     4

 Left Overbank Length   :    383.0 ft               Maximum Elevation        :   113.86 ft.
 Main Channel Length    :    293.0 ft               Maximum Depth            :    34.76 ft.
 Right Overbank Length  :    249.0 ft               Maximum Section Area     : 42624.11 ft^2
                                                    Maximum hydraulic radius :    19.69 ft.
 Manning N :      0.990  to Station        3487.6    Max topwidth             :  2132.01 ft.
   "    "  :      0.040  in main Channel             Maximum Wetted Perimeter : 2.16E+03 ft
   "    "  :      0.050  Beyond station    3589.1    Max left bank area       : 26836.17 ft^2
                                                    Max right bank area      : 12835.06 ft^2
 Allowable Encroachment Depth :    0.00 ft           Max center channel area  : 2952.881 ft^2

       Natural Cross-Section information for Channel L_AA-OUT1
       =======================================================
        Cross-Section ID (from X1 card) :     5.0 Channel sequence number :     5

 Left Overbank Length   :     35.0 ft               Maximum Elevation        :   114.12 ft.
 Main Channel Length    :     35.0 ft               Maximum Depth            :    35.62 ft.
 Right Overbank Length  :     35.0 ft               Maximum Section Area     : 53193.59 ft^2
                                                    Maximum hydraulic radius :    19.08 ft.
 Manning N :      0.990  to Station        4974.5    Max topwidth             :  2737.53 ft.
   "    "  :      0.015  in main Channel             Maximum Wetted Perimeter : 2.79E+03 ft
   "    "  :      0.050  Beyond station    5025.5    Max left bank area       : 36140.10 ft^2
                                                    Max right bank area      : 15236.87 ft^2
 Allowable Encroachment Depth :    0.00 ft           Max center channel area  : 1816.620 ft^2

       Natural Cross-Section information for Channel L_L-MH-A2
       =======================================================
        Cross-Section ID (from X1 card) :     6.0 Channel sequence number :     6

 Left Overbank Length   :     10.0 ft               Maximum Elevation        :   113.83 ft.
 Main Channel Length    :     10.0 ft               Maximum Depth            :    35.05 ft.
 Right Overbank Length  :     10.0 ft               Maximum Section Area     : 49468.05 ft^2
                                                    Maximum hydraulic radius :    19.92 ft.
 Manning N :      0.990  to Station        4205.6    Max topwidth             :  2456.25 ft.
   "    "  :      0.015  in main Channel             Maximum Wetted Perimeter : 2.48E+03 ft
   "    "  :      0.050  Beyond station    4375.7    Max left bank area       : 31133.89 ft^2
                                                    Max right bank area      : 13637.17 ft^2
 Allowable Encroachment Depth :    0.00 ft           Max center channel area  : 4696.994 ft^2

       Natural Cross-Section information for Channel L_L-MH-A4
       =======================================================
        Cross-Section ID (from X1 card) :     7.0 Channel sequence number :     7

 Left Overbank Length   :     25.0 ft               Maximum Elevation        :   104.96 ft.
 Main Channel Length    :     25.0 ft               Maximum Depth            :    26.27 ft.
 Right Overbank Length  :     25.0 ft               Maximum Section Area     : 26854.63 ft^2
                                                    Maximum hydraulic radius :    10.79 ft.
 Manning N :      0.990  to Station        3486.3    Max topwidth             :  2475.47 ft.
   "    "  :      0.015  in main Channel             Maximum Wetted Perimeter : 2.49E+03 ft
   "    "  :      0.050  Beyond station    3587.6    Max left bank area       : 11269.69 ft^2
                                                    Max right bank area      : 13557.71 ft^2
 Allowable Encroachment Depth :    0.00 ft           Max center channel area  : 2027.228 ft^2

*================================================*
|          Table E1 - Conduit Data               |
*================================================*
```

Inp Num	Conduit Name	Length (ft)	Conduit Class	Area (ft^2)	Manning Coef.	Max Width (ft)	Depth (ft)	Trapezoid Side Slopes
1	L_L-A-43	111.1460	Rectangle	25.0000	0.0130	5.0000	5.0000	
2	L_L-A-42	152.4110	Rectangle	25.0000	0.0130	5.0000	5.0000	
3	L_L-A-41	125.0000	Rectangle	25.0000	0.0130	5.0000	5.0000	
4	L_L-A-40	149.9940	Rectangle	25.0000	0.0130	5.0000	5.0000	
5	L_L-A-39	150.0060	Rectangle	25.0000	0.0130	5.0000	5.0000	
6	L_L-A-38	174.5070	Rectangle	25.0000	0.0130	5.0000	5.0000	
7	L_L-A-37	149.7450	Rectangle	25.0000	0.0130	5.0000	5.0000	
8	L_L-A-36	150.7480	Rectangle	25.0000	0.0130	5.0000	5.0000	
9	L_L-A-35	299.3820	Rectangle	25.0000	0.0130	5.0000	5.0000	
10	L_L-A-34	150.2780	Rectangle	20.0000	0.0130	5.0000	4.0000	
11	L-A-35OFF	48.3200	Circular	7.0686	0.0130	3.0000	3.0000	
12	L_L-A-32	201.5990	Rectangle	20.0000	0.0130	5.0000	4.0000	
13	L_L-A-31	122.2440	Rectangle	20.0000	0.0130	5.0000	4.0000	
14	L_L-A-30	186.4290	Rectangle	20.0000	0.0130	5.0000	4.0000	
15	L_L-A-29	238.4230	Circular	12.5664	0.0130	4.0000	4.0000	
16	L_L-A-28	150.6660	Circular	12.5664	0.0130	4.0000	4.0000	
17	L_L-A-27	100.6390	Circular	12.5664	0.0130	4.0000	4.0000	
18	L_L-A-26	124.2240	Circular	9.6211	0.0130	3.5000	3.5000	
19	L-A-27OFF	15.0100	Circular	3.1416	0.0130	2.0000	2.0000	
20	L_L-A-25	175.4970	Circular	9.6211	0.0130	3.5000	3.5000	
21	L_L-A-44	150.1660	Circular	7.0686	0.0130	3.0000	3.0000	
22	L_L-A-24	92.1160	Rectangle	45.0000	0.0120	9.0000	5.0000	
23	L_L-A-23	109.9750	Rectangle	45.0000	0.0120	9.0000	5.0000	
24	L_L-A-22	92.9080	Rectangle	45.0000	0.0130	9.0000	5.0000	
25	L-A-23B	15.0000	Circular	7.0686	0.0130	3.0000	3.0000	
26	L_L-A-21	156.1640	Rectangle	40.0000	0.0130	8.0000	5.0000	
27	L_L-A-20	120.4600	Rectangle	40.0000	0.0130	8.0000	5.0000	
28	L_L-A-19	129.5390	Rectangle	35.0000	0.0130	7.0000	5.0000	
29	L_L-A-18	192.5520	Rectangle	35.0000	0.0130	7.0000	5.0000	
30	L_L-A-17	176.8430	Rectangle	35.0000	0.0130	7.0000	5.0000	
31	L_L-A-15	324.3680	Rectangle	28.0000	0.0130	7.0000	4.0000	
32	Link766	15.0000	Rectangle	16.0000	0.0130	4.0000	4.0000	
33	L_L-A-14	150.0590	Rectangle	28.0000	0.0130	7.0000	4.0000	
34	L_L-A-13	100.6150	Rectangle	28.0000	0.0130	7.0000	4.0000	
35	L_L-A-12	205.5580	Rectangle	28.0000	0.0130	7.0000	4.0000	
36	L_L-A-9	262.4610	Rectangle	24.0000	0.0130	6.0000	4.0000	
37	L_L-A-8	229.2450	Rectangle	24.0000	0.0130	6.0000	4.0000	
38	L_L-A-7	132.8500	Rectangle	20.0000	0.0130	5.0000	4.0000	
39	L_L-A-6	175.2280	Rectangle	20.0000	0.0130	5.0000	4.0000	
40	L_L-A-5	175.0220	Rectangle	20.0000	0.0130	5.0000	4.0000	
41	L_L-A-4	174.3600	Circular	7.0686	0.0130	3.0000	3.0000	
42	L_L-A-5OFF	15.0000	Circular	4.9087	0.0130	2.5000	2.5000	
43	L_L-A-3	199.1670	Circular	4.9087	0.0130	2.5000	2.5000	
44	L_L-A-2	98.6030	Circular	3.1416	0.0130	2.0000	2.0000	
45	L_L-A-50	36.7870	Circular	3.1416	0.0130	2.0000	2.0000	
46	L_L-A-51	134.3890	Circular	3.1416	0.0130	2.0000	2.0000	
47	L_L-MH-AA2	164.0000	Circular	23.7583	0.0130	5.5000	5.5000	
48	L_L-AA-2	78.4340	Circular	4.9087	0.0130	2.5000	2.5000	
49	L_L-AA-3	168.4000	Circular	15.9043	0.0130	4.5000	4.5000	
50	L_L-MH-AA1	342.0960	Circular	19.6350	0.0130	5.0000	5.0000	
51	L_L-AA-1	110.4250	Circular	4.9087	0.0130	2.5000	2.5000	
52	L_L-AA-4	93.8360	Circular	15.9043	0.0130	4.5000	4.5000	
53	L_L-AA-10	150.8360	Rectangle	15.0000	0.0130	5.0000	3.0000	
54	L_L-AA-55	99.2090	Circular	7.0686	0.0130	3.0000	3.0000	

55	L_GES-1	238.0000	Circular	12.5664	0.0130	4.0000	4.0000	
56	L_L-AA-5	133.0870	Circular	12.5664	0.0130	4.0000	4.0000	
57	L_L-AA-11	149.7550	Rectangle	12.0000	0.0130	4.0000	3.0000	
58	L_L-AA-54	148.9940	Circular	4.9087	0.0130	2.5000	2.5000	
59	L_L-AA-6	123.9700	Circular	9.6211	0.0130	3.5000	3.5000	
60	L_L-AA-12	150.0000	Rectangle	12.0000	0.0130	4.0000	3.0000	
61	L_L-AA-7	342.9430	Circular	7.0686	0.0130	3.0000	3.0000	
62	L_L-AA-13	150.1170	Rectangle	9.0000	0.0130	3.0000	3.0000	
63	L_L-AA-8	106.1640	Circular	7.0686	0.0130	3.0000	3.0000	
64	L_L-AA-14	250.0190	Circular	7.0686	0.0130	3.0000	3.0000	
65	L_L-AA-9	143.8360	Circular	3.1416	0.0130	2.0000	2.0000	
66	L_L-AA-15	125.4280	Circular	7.0686	0.0130	3.0000	3.0000	
67	L_L-AA-16	74.6810	Circular	4.9087	0.0130	2.5000	2.5000	
68	L_L-AA-17	75.5150	Circular	4.9087	0.0130	2.5000	2.5000	
69	L_L-A-OUT1	70.0000	Natural	28333.854	0.0150	2486.9120	26.2700	
70	L_L-MH-A3	424.0000	Natural	51443.845	0.0150	2573.8870	35.1500	
71	L_L-MH-A1	70.0000	Natural	40824.580	0.0150	2087.8590	34.8300	
72	L_L-A-OUT2	293.0000	Natural	42624.108	0.0400	2132.0090	34.7600	
73	L_L-AA-18	125.0950	Circular	3.1416	0.0130	2.0000	2.0000	
74	L-A-23OFF	240.0000	Circular	1.7671	0.0130	1.5000	1.5000	
75	L-A-24OFF	280.0000	Circular	1.7671	0.0130	1.5000	1.5000	
76	L_AA-OUT1	35.0000	Natural	53193.591	0.0150	2737.5300	35.6200	
77	L-POND5C	45.0000	Circular	7.0686	0.0130	3.0000	3.0000	
78	L-POND6D	100.0000	Circular	7.0686	0.0130	3.0000	3.0000	
79	L-POND5C	74.0000	Circular	7.0686	0.0130	3.0000	3.0000	
80	L_GES-2	240.0000	Circular	12.5664	0.0130	4.0000	4.0000	
81	L_GES-3	668.0000	Circular	15.9043	0.0130	4.5000	4.5000	
82	L_GES-4	22.0000	Circular	15.9043	0.0230	4.5000	4.5000	
83	L_POND6E	113.5000	Rectangle	20.0000	0.0130	5.0000	4.0000	
84	L_L-MH-A2	10.0000	Natural	49468.052	0.0150	2456.2540	35.0500	
85	L_L-MH-A4	25.0000	Natural	26854.629	0.0150	2475.4700	26.2700	

Total length of all conduits .... 12895.0430 feet

Table E2 - Conduit Factor Data

Conduit Name	Number of Barrels	Entrance Loss Coef	Exit Loss Coef	Exp/Contc Coefficnt	Time Weighting Parameter	Low Flow Roughness Factor	Depth at Which n Changes	Flow Routing
L_L-A-43	1.0000	0.0000	0.5000	0.0000	0.8500	1.0000	0.0000	Standard - Dynamic Wave
L_L-A-24	1.0000	0.0000	0.5000	0.0000	0.8500	1.0000	0.0000	Standard - Dynamic Wave
L_L-A-50	1.0000	0.0000	0.5000	0.0000	0.8500	1.0000	0.0000	Standard - Dynamic Wave
L_L-MH-AA2	1.0000	0.0000	0.5000	0.0000	0.8500	1.0000	0.0000	Standard - Dynamic Wave
L-POND6C	1.0000	0.5000	0.0000	0.0000	0.8500	1.0000	0.0000	Standard - Dynamic Wave
L-POND6D	1.0000	0.5000	0.0000	0.0000	0.8500	1.0000	0.0000	Standard - Dynamic Wave
L_POND6E	1.0000	0.5000	0.0000	0.0000	0.8500	1.0000	0.0000	Standard - Dynamic Wave

If there are messages about (sqrt(g*d)*dt/dx), or the sqrt(wave celerity)*time step/conduit length in the output file all it means is that the program will lower the internal time step to satisfy this condition (explicit condition). You control the actual internal time step by using the minimum courant time step factor in the HYDRAULICS job control. The message put in words states that the smallest conduit with the fastest velocity will control the time step selection. You have further control by using the modify conduit option in the HYDRAULICS Job Control.

Conduit Name	Courant Ratio
L_L-A-43	0.11
L_L-A-42	0.08
L_L-A-41	0.10
L_L-A-40	0.08
L_L-A-39	0.08
L_L-A-38	0.07
L_L-A-37	0.08
L_L-A-36	0.08
L_L-A-35	0.04
L_L-A-34	0.08
L-A-35OFF	0.20
L_L-A-32	0.06
L_L-A-31	0.09
L_L-A-30	0.06
L_L-A-29	0.05
L_L-A-28	0.08
L_L-A-27	0.11
L_L-A-26	0.09
L-A-27OFF	0.53
L_L-A-25	0.06
L_L-A-44	0.07
L_L-A-24	0.14
L_L-A-23	0.12
L_L-A-22	0.14
L-A-23B	0.66
L_L-A-21	0.08
L_L-A-20	0.11
L_L-A-19	0.10
L_L-A-18	0.07
L_L-A-17	0.07
L_L-A-15	0.03
Link766	0.76
L_L-A-14	0.08
L_L-A-13	0.11
L_L-A-12	0.06
L_L-A-9	0.04
L_L-A-8	0.05
L_L-A-7	0.09
L_L-A-6	0.06
L_L-A-5	0.06
L_L-A-4	0.06
L_L-A-5OFF	0.60
L_L-A-3	0.05
L_L-A-2	0.08
L_L-A-50	0.22
L_L-A-51	0.06
L_L-MH-AA2	0.08
L_L-AA-2	0.11
L_L-AA-3	0.07
L_L-MH-AA1	0.04
L_L-AA-1	0.08
L_L-AA-4	0.13
L_L-AA-10	0.07
L_L-AA-55	0.10
L_GES-1	0.05
L_L-AA-5	0.09
L_L-AA-11	0.07
L_L-AA-54	0.06
L_L-AA-6	0.09
L_L-AA-12	0.07

L_L-AA-7	0.03
L_L-AA-13	0.07
L_L-AA-8	0.09
L_L-AA-14	0.04
L_L-AA-9	0.06
L_L-AA-15	0.08
L_L-AA-16	0.12
L_L-AA-17	0.12
L_L-A-OUT1	0.14
L_L-MH-A3	0.02
L_L-MH-A1	0.14
L_L-A-OUT2	0.04
L_L-AA-18	0.06
L-A-23OFF	0.03
L-A-24OFF	0.02
L_AA-OUT1	0.24
L-POND6C	0.22
L-POND6D	0.10
L-POND5C	0.13
L_GES-2	0.05
L_GES-3	0.02
L_GES-4	0.55
L_POND6E	0.10
L_L-MH-A2	0.96
L_L-MH-A4	0.38

==================
| Conduit Volume |
==================

Full pipe or full open conduit volume
Input full depth volume..... 4.2375E+07 cubic feet

===> Warning !! The upstream and downstream junctions for the following conduits
have been reversed to correspond to the positive flow and decreasing
slope convention. A negative flow in the output thus means
the flow was from your original upstream junction to your original
downstream junction. Any initial flow has been multiplied by -1.

1. Conduit #...L_L-MH-A3 has been changed.
2. Conduit #...L_L-MH-A1 has been changed.
3. Conduit #...L_L-MH-A2 has been changed.

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| Table E3a - Junction Data |
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Inp Num	Junction Name	Ground Elevation	Crown Elevation	Invert Elevation	Qinst cfs	Initial Depth-ft	Interface Flow (%)
1	A-OUT1	114.0000	104.9600	78.6900	0.0000	0.0000	100.0000
2	A-43	93.1600	93.1600	83.2780	0.0000	0.0000	100.0000
3	A-42	93.3800	93.3800	83.6590	0.0000	0.0000	100.0000
4	A-41	93.8200	93.8200	83.9720	0.0000	0.0000	100.0000
5	A-40	94.3400	94.3400	84.3470	0.0000	0.0000	100.0000
6	A-39	94.8700	94.8700	84.7220	0.0000	0.0000	100.0000
7	A-38	95.4800	95.4800	85.1580	0.0000	0.0000	100.0000
8	A-37	96.0000	96.0000	85.5320	0.0000	0.0000	100.0000
9	A-36	96.5300	96.5300	85.9090	0.0000	0.0000	100.0000
10	A-35	96.5300	96.5300	86.6570	0.0000	0.0000	100.0000
11	A-34	96.0100	96.0100	88.0330	0.0000	0.0000	100.0000
12	A-35OFF	94.0000	94.0000	88.7780	0.0000	0.0000	100.0000
13	A-32	97.0100	97.0100	88.5370	0.0000	0.0000	100.0000
14	A-31	97.6200	97.6200	88.8430	0.0000	0.0000	100.0000
15	A-30	98.5600	98.5600	89.3090	0.0000	0.0000	100.0000
16	A-29	98.4800	98.4800	89.9050	0.0000	0.0000	100.0000
17	A-28	97.9600	97.9600	90.2820	0.0000	0.0000	100.0000
18	A-27	97.6100	94.5340	90.5340	0.0000	0.0000	100.0000
19	A-26	98.2300	98.2300	91.3450	0.0000	0.0000	100.0000
20	A-27OFF	97.6100	94.5720	92.5720	0.0000	0.0000	100.0000
21	A-25	99.1000	99.1000	91.7840	0.0000	0.0000	100.0000
22	A-44	99.8500	99.8500	92.6590	0.0000	0.0000	100.0000
23	A-OUT2	113.9300	113.9300	79.1000	0.0000	0.0000	100.0000
24	A-24	92.8500	92.8500	83.4840	0.0000	0.0000	100.0000
25	A-23	93.1600	93.1600	83.7040	0.0000	0.0000	100.0000
26	A-22	93.1600	88.8900	83.8900	0.0000	0.0000	100.0000
27	A-23B	92.4700	90.4400	85.7500	0.0000	0.0000	100.0000
28	A-21	93.1600	93.1600	84.2020	0.0000	0.0000	100.0000
29	A-20	93.1600	93.1600	84.4430	0.0000	0.0000	100.0000
30	A-19	93.5600	93.5600	84.7020	0.0000	0.0000	100.0000
31	A-18	94.2400	94.2400	85.0870	0.0000	0.0000	100.0000
32	A-17	94.8600	94.8600	85.4410	0.0000	0.0000	100.0000
33	A-15	94.9400	94.9400	87.0900	0.0000	0.0000	100.0000
34	A-17OFF	94.8600	94.8600	84.9710	0.0000	0.0000	100.0000
35	A-14	94.4200	94.4200	87.3900	0.0000	0.0000	100.0000
36	A-13	94.8200	94.8200	87.5910	0.0000	0.0000	100.0000
37	A-12	95.6400	95.6400	88.0020	0.0000	0.0000	100.0000
38	A-9	96.6900	96.6900	88.5270	0.0000	0.0000	100.0000
39	A-8	97.6100	97.6100	88.9850	0.0000	0.0000	100.0000
40	A-7	98.1400	98.1400	89.6820	0.0000	0.0000	100.0000
41	A-6	98.8400	98.8400	90.0320	0.0000	0.0000	100.0000
42	A-5	99.5400	99.5400	90.3820	0.0000	0.0000	100.0000
43	A-4	100.2400	100.2400	92.9150	0.0000	0.0000	100.0000
44	A-5OFF	97.7700	97.7700	90.4000	0.0000	0.0000	100.0000
45	A-3	101.0400	101.0400	95.0980	0.0000	0.0000	100.0000
46	A-2	101.4300	101.4300	95.7950	0.0000	0.0000	100.0000
47	A-50	93.1600	89.1100	87.1100	0.0000	0.0000	100.0000
48	A-51	93.1300	93.1300	87.5140	0.0000	0.0000	100.0000
49	AA-OUT1	114.2400	114.2400	78.6200	0.0000	0.0000	100.0000
50	MH-AA2	93.0100	87.8220	80.2900	0.0000	0.0000	100.0000
51	AA-2	93.0300	87.9000	85.4000	0.0000	0.0000	100.0000
52	AA-3	92.9700	87.8500	83.3500	0.0000	0.0000	100.0000
53	MH-AA1	92.9800	88.0500	81.6320	0.0000	0.0000	100.0000
54	AA-1	93.0800	93.0800	85.5100	0.0000	0.0000	100.0000
55	AA-4	92.9600	92.9600	83.4440	0.0000	0.0000	100.0000
56	AA-10	92.9500	88.2000	85.2000	0.0000	0.0000	100.0000
57	AA-55	93.0000	88.2500	85.2500	0.0000	0.0000	100.0000
58	GES-1	93.5000	93.5000	81.8700	0.0000	0.0000	100.0000
59	AA-5	92.9300	92.9300	84.0770	0.0000	0.0000	100.0000
60	AA-11	92.9300	92.9300	85.3500	0.0000	0.0000	100.0000
61	AA-54	93.0300	93.0300	86.0480	0.0000	0.0000	100.0000
62	AA-6	92.8900	92.8900	84.7010	0.0000	0.0000	100.0000
63	AA-12	92.8700	92.8700	85.5000	0.0000	0.0000	100.0000
64	AA-7	92.7600	92.7600	85.5440	0.0000	0.0000	100.0000
65	AA-13	93.4900	93.4900	86.6500	0.0000	0.0000	100.0000
66	AA-8	92.7400	88.6500	85.6500	0.0000	0.0000	100.0000
67	AA-14	93.8900	93.8900	86.9000	0.0000	0.0000	100.0000
68	AA-9	92.8500	92.8500	86.7940	0.0000	0.0000	100.0000
69	AA-15	93.4500	93.4500	87.0250	0.0000	0.0000	100.0000
70	AA-16	93.1900	90.1000	87.6000	0.0000	0.0000	100.0000
71	AA-17	93.4500	93.4500	87.6760	0.0000	0.0000	100.0000
72	AA-18	93.8900	93.8900	88.3010	0.0000	0.0000	100.0000
73	MH-A1	114.0800	114.0800	79.0300	0.0000	0.0000	100.0000
74	MH-A3	114.0000	113.8400	78.6900	0.0000	0.0000	100.0000
75	A-23OFF	94.0000	94.0000	89.4200	0.0000	0.0000	100.0000
76	A-24OFF	93.5000	93.5000	90.1000	0.0000	0.0000	100.0000
77	E117-OUT	114.1200	114.1200	78.5000	0.0000	0.0000	100.0000

78	POND6C	96.5000	91.1000	88.1000	0.0000	0.0000	100.0000
79	POND6D	96.5000	91.2330	88.2330	0.0000	0.0000	100.0000
80	POND5C	94.8000	87.9640	84.9640	0.0000	0.0000	100.0000
81	POND6E	98.0000	93.4200	89.4200	0.0000	0.0000	100.0000
82	GES-2	93.5000	93.5000	81.4000	0.0000	0.0000	100.0000
83	GES-3	93.0000	93.0000	80.4100	0.0000	0.0000	100.0000
84	GES-4	90.8000	90.8000	79.4700	0.0000	0.0000	100.0000
85	MH-A2	113.9300	113.9300	78.7800	0.0000	0.0000	100.0000
86	MH-A4	104.9600	104.9600	78.6900	0.0000	0.0000	100.0000

Table E3b - Junction Data

Inp Num	Junction Name	X Coord.	Y Coord.	Type of Manhole	Type of Inlet	Maximum Capacity	Pavement Shape	Pavement Slope
1	A-OUT1	3.064198E+06	13.88104E+06	No P	Normal		0	0.0000
2	A-43	3.064074E+06	13.88110E+06	F	Normal		0	0.0000
3	A-42	3.063937E+06	13.88116E+06	F	Normal		0	0.0000
4	A-41	3.063824E+06	13.88121E+06	F	Normal		0	0.0000
5	A-40	3.063688E+06	13.88128E+06	F	Normal		0	0.0000
6	A-39	3.063553E+06	13.88134E+06	F	Normal		0	0.0000
7	A-38	3.063395E+06	13.88142E+06	F	Normal		0	0.0000
8	A-37	3.063260E+06	13.88148E+06	F	Normal		0	0.0000
9	A-36	3.063123E+06	13.88155E+06	F	Normal		0	0.0000
10	A-35	3.062849E+06	13.88167E+06	F	Normal		0	0.0000
11	A-34	3.062710E+06	13.88172E+06	F	Normal		0	0.0000
12	A-35OFF	3.062781E+06	13.88163E+06	F	Normal		0	0.0000
13	A-32	3.062524E+06	13.88180E+06	F	Normal		0	0.0000
14	A-31	3.062411E+06	13.88185E+06	F	Normal		0	0.0000
15	A-30	3.062239E+06	13.88192E+06	F	Normal		0	0.0000
16	A-29	3.062019E+06	13.88201E+06	F	Normal		0	0.0000
17	A-28	3.061880E+06	13.88207E+06	F	Normal		0	0.0000
18	A-27	3.061788E+06	13.88211E+06	No P	Normal		0	0.0000
19	A-26	3.061672E+06	13.88216E+06	F	Normal		0	0.0000
20	A-27OFF	3.061771E+06	13.88208E+06	No P	Normal		0	0.0000
21	A-25	3.061510E+06	13.88222E+06	F	Normal		0	0.0000
22	A-44	3.061372E+06	13.88228E+06	F	Normal		0	0.0000
23	A-OUT2	3.064716E+06	13.88114E+06	No P	Normal		0	0.0000
24	A-24	3.064619E+06	13.88119E+06	F	Normal		0	0.0000
25	A-23	3.064517E+06	13.88123E+06	F	Normal		0	0.0000
26	A-22	3.064433E+06	13.88127E+06	No P	Normal		0	0.0000
27	A-23B	3.064558E+06	13.88124E+06	No P	Normal		0	0.0000
28	A-21	3.064292E+06	13.88134E+06	F	Normal		0	0.0000
29	A-20	3.064183E+06	13.88139E+06	F	Normal		0	0.0000
30	A-19	3.064066E+06	13.88144E+06	F	Normal		0	0.0000
31	A-18	3.063892E+06	13.88152E+06	F	Normal		0	0.0000
32	A-17	3.063732E+06	13.88160E+06	F	Normal		0	0.0000
33	A-15	3.063439E+06	13.88174E+06	F	Normal		0	0.0000
34	A-17OFF	3.063747E+06	13.88163E+06	F	Normal		0	0.0000
35	A-14	3.063305E+06	13.88181E+06	F	Normal		0	0.0000
36	A-13	3.063214E+06	13.88185E+06	F	Normal		0	0.0000
37	A-12	3.063028E+06	13.88194E+06	F	Normal		0	0.0000
38	A-9	3.062791E+06	13.88205E+06	F	Normal		0	0.0000
39	A-8	3.062585E+06	13.88215E+06	F	Normal		0	0.0000
40	A-7	3.062467E+06	13.88221E+06	F	Normal		0	0.0000
41	A-6	3.062311E+06	13.88229E+06	F	Normal		0	0.0000
42	A-5	3.062148E+06	13.88237E+06	F	Normal		0	0.0000
43	A-4	3.061999E+06	13.88245E+06	F	Normal		0	0.0000
44	A-5OFF	3.062172E+06	13.88239E+06	F	Normal		0	0.0000
45	A-3	3.061828E+06	13.88255E+06	F	Normal		0	0.0000
46	A-2	3.061746E+06	13.88261E+06	F	Normal		0	0.0000
47	A-50	3.064253E+06	13.88101E+06	No P	Normal		0	0.0000
48	A-51	3.064375E+06	13.88095E+06	F	Normal		0	0.0000
49	AA-OUT1	3.065067E+06	13.88115E+06	No P	Normal		0	0.0000
50	MH-AA2	3.065054E+06	13.88099E+06		Normal		0	0.0000
51	AA-2	3.064979E+06	13.88101E+06	No P	Normal		0	0.0000
52	AA-3	3.065201E+06	13.88090E+06	No P	Normal		0	0.0000
53	MH-AA1	3.065020E+06	13.88065E+06		Normal		0	0.0000
54	AA-1	3.064879E+06	13.88106E+06	F	Normal		0	0.0000
55	AA-4	3.065286E+06	13.88086E+06	F	Normal		0	0.0000
56	AA-10	3.065157E+06	13.88058E+06	No P	Normal		0	0.0000
57	AA-55	3.064931E+06	13.88069E+06	No P	Normal		0	0.0000
58	GES-1	3.064990E+06	13.88041E+06	F	Normal		0	0.0000
59	AA-5	3.065406E+06	13.88081E+06	F	Normal		0	0.0000
60	AA-11	3.065292E+06	13.88052E+06	F	Normal		0	0.0000
61	AA-54	3.064796E+06	13.88075E+06	F	Normal		0	0.0000
62	AA-6	3.065518E+06	13.88075E+06	F	Normal		0	0.0000
63	AA-12	3.065428E+06	13.88045E+06	F	Normal		0	0.0000
64	AA-7	3.065828E+06	13.88061E+06	F	Normal		0	0.0000
65	AA-13	3.065564E+06	13.88039E+06	F	Normal		0	0.0000
66	AA-8	3.065924E+06	13.88056E+06	No P	Normal		0	0.0000
67	AA-14	3.065789E+06	13.88028E+06	F	Normal		0	0.0000
68	AA-9	3.066054E+06	13.88050E+06	F	Normal		0	0.0000
69	AA-15	3.065903E+06	13.88023E+06	F	Normal		0	0.0000
70	AA-16	3.065970E+06	13.88020E+06	No P	Normal		0	0.0000
71	AA-17	3.066039E+06	13.88017E+06	F	Normal		0	0.0000
72	AA-18	3.066152E+06	13.88011E+06	F	Normal		0	0.0000
73	MH-A1	3.064652E+06	13.88112E+06	No P	Normal		0	0.0000
74	MH-A3	3.064286E+06	13.88106E+06	No P	Normal		0	0.0000
75	A-23OFF	3.064551E+06	13.88147E+06	F	Normal		0	0.0000
76	A-24OFF	3.064612E+06	13.88147E+06	F	Normal		0	0.0000
77	E117-OUT	3.065104E+06	13.88115E+06	No P	Normal		0	0.0000
78	POND6C	3.063091E+06	13.88203E+06	No P	Normal		0	0.0000
79	POND6D	3.062627E+06	13.88163E+06	No P	Normal		0	0.0000
80	POND5C	3.064450E+06	13.88130E+06	No P	Normal		0	0.0000
81	POND6E	3.062206E+06	13.88188E+06	No P	Normal		0	0.0000
82	GES-2	3.065017E+06	13.88063E+06	F	Normal		0	0.0000
83	GES-3	3.064536E+06	13.88086E+06	F	Normal		0	0.0000
84	GES-4	3.064226E+06	13.88100E+06	F	Normal		0	0.0000
85	MH-A2	3.064623E+06	13.88111E+06	No P	Normal		0	0.0000
86	MH-A4	3.064249E+06	13.88105E+06	No P	Normal		0	0.0000

Table E4 - Conduit Connectivity

Input Number	Conduit Name	Upstream Node	Downstream Node	Upstream Elevation	Downstream Elevation	
1	L_L-A-43	A-43	A-OUT1	83.2780	83.0000	No Design
2	L_L-A-42	A-42	A-43	83.6590	83.2780	No Design
3	L_L-A-41	A-41	A-42	83.9720	83.6590	No Design
4	L_L-A-40	A-40	A-41	84.3470	83.9720	No Design
5	L_L-A-39	A-39	A-40	84.7220	84.3470	No Design
6	L_L-A-38	A-38	A-39	85.1580	84.7220	No Design
7	L_L-A-37	A-37	A-38	85.5320	85.1580	No Design
8	L_L-A-36	A-36	A-37	85.9090	85.5320	No Design
9	L_L-A-35	A-35	A-36	86.6570	85.9090	No Design
10	L_L-A-34	A-34	A-35	88.0330	87.6570	No Design
11	L-A-35OFF	A-35OFF	A-35	88.7780	88.6570	No Design
12	L_L-A-32	A-32	A-34	88.5370	88.0330	No Design
13	L_L-A-31	A-31	A-32	88.8430	88.5370	No Design
14	L_L-A-30	A-30	A-31	89.3090	88.8430	No Design
15	L_L-A-29	A-29	A-30	89.9050	89.3090	No Design

16	L_L-A-28	A-28	A-29	90.2820	89.9050	No Design
17	L_L-A-27	A-27	A-28	90.5340	90.2820	No Design
18	L_L-A-26	A-26	A-27	91.3450	91.0340	No Design
19	L-A-27OFF	A-27OFF	A-27	92.5720	92.5340	No Design
20	L_L-A-25	A-25	A-26	91.7840	91.3450	No Design
21	L_L-A-44	A-44	A-25	92.6590	92.2840	No Design
22	L_L-A-24	A-24	A-OUT2	83.4840	83.3000	No Design
23	L_L-A-23	A-23	A-24	83.7040	83.4840	No Design
24	L_L-A-22	A-22	A-23	83.8900	83.7040	No Design
25	L-A-23B	A-23B	A-23	85.7500	85.7040	No Design
26	L_L-A-21	A-21	A-22	84.2020	83.8900	No Design
27	L_L-A-20	A-20	A-21	84.4430	84.2020	No Design
28	L_L-A-19	A-19	A-20	84.7020	84.4430	No Design
29	L_L-A-18	A-18	A-19	85.0870	84.7020	No Design
30	L_L-A-17	A-17	A-18	85.4410	85.0870	No Design
31	L_L-A-15	A-15	A-17	87.0900	86.4410	No Design
32	Link766	A-17OFF	A-17	86.4710	86.4410	No Design
33	L_L-A-14	A-14	A-15	87.3900	87.0900	No Design
34	L_L-A-13	A-13	A-14	87.5910	87.3900	No Design
35	L_L-A-12	A-12	A-13	88.0020	87.5910	No Design
36	L_L-A-9	A-9	A-12	88.5270	88.0020	No Design
37	L_L-A-8	A-8	A-9	88.9850	88.5270	No Design
38	L_L-A-7	A-7	A-8	89.6820	89.4160	No Design
39	L_L-A-6	A-6	A-7	90.0320	89.6820	No Design
40	L_L-A-5	A-5	A-6	90.3820	90.0320	No Design
41	L_L-A-4	A-4	A-5	92.9150	92.5660	No Design
42	L_L-A-5OFF	A-5OFF	A-5	90.4000	90.3820	No Design
43	L_L-A-3	A-3	A-4	95.0980	94.7000	No Design
44	L_L-A-2	A-2	A-3	95.7950	95.5980	No Design
45	L_L-A-50	A-50	A-OUT1	87.1100	87.0000	No Design
46	L_L-A-51	A-51	A-50	87.5140	87.1100	No Design
47	L_L-MH-AA2	MH-AA2	AA-OUT1	80.2900	80.0000	No Design
48	L_L-AA-2	AA-2	MH-AA2	85.4000	85.3220	No Design
49	L_L-AA-3	AA-3	MH-AA2	83.3500	83.1820	No Design
50	L_L-MH-AA1	MH-AA1	MH-AA2	81.6320	81.2900	No Design
51	L_L-AA-1	AA-1	AA-2	85.5100	85.4000	No Design
52	L_L-AA-4	AA-4	AA-3	83.4440	83.3500	No Design
53	L_L-AA-10	AA-10	MH-AA1	85.2000	85.0500	No Design
54	L_L-AA-55	AA-55	MH-AA1	85.2500	85.0500	No Design
55	L_GES-1	GES-1	GES-2	81.8700	81.4000	No Design
56	L_L-AA-5	AA-5	AA-4	84.0770	83.9440	No Design
57	L_L-AA-11	AA-11	AA-10	85.3500	85.2000	No Design
58	L_L-AA-54	AA-54	AA-55	86.0480	85.7500	No Design
59	L_L-AA-6	AA-6	AA-5	84.7010	84.5770	No Design
60	L_L-AA-12	AA-12	AA-11	85.5000	85.3500	No Design
61	L_L-AA-7	AA-7	AA-6	85.5440	85.2010	No Design
62	L_L-AA-13	AA-13	AA-12	86.6500	86.5000	No Design
63	L_L-AA-8	AA-8	AA-7	85.6500	85.5440	No Design
64	L_L-AA-14	AA-14	AA-13	86.9000	86.6500	No Design
65	L_L-AA-9	AA-9	AA-8	86.7940	86.6500	No Design
66	L_L-AA-15	AA-15	AA-14	87.0250	86.9000	No Design
67	L_L-AA-16	AA-16	AA-15	87.6000	87.5250	No Design
68	L_L-AA-17	AA-17	AA-16	87.6760	87.6000	No Design
69	L_L-A-OUT1	A-OUT1	MH-A4	78.6900	78.6900	No Design
70	L_L-MH-A3	MH-A2	MH-A3	78.7800	78.6900	No Design
71	L_L-MH-A1	A-OUT2	MH-A1	79.1000	79.0300	No Design
72	L_L-A-OUT2	A-OUT2	AA-OUT1	79.1000	78.6200	No Design
73	L_L-AA-18	AA-18	AA-17	88.3010	88.1760	No Design
74	L-A-23OFF	A-23OFF	A-23B	89.4200	88.9400	No Design
75	L-A-24OFF	A-24OFF	A-24	90.1000	89.5400	No Design
76	L_AA-OUT1	AA-OUT1	E117-OUT	78.6200	78.5000	No Design
77	L-POND6C	POND6D	A-12	88.1000	88.0020	No Design
78	L-POND6D	POND6D	A-34	88.2330	88.0330	No Design
79	L-POND5C	POND5C	A-22	84.9640	84.8900	No Design
80	L_GES-2	GES-2	GES-3	81.4000	80.9100	No Design
81	L_GES-3	GES-3	GES-4	80.4100	79.4700	No Design
82	L_GES-4	GES-4	A-OUT1	79.4700	78.8100	No Design
83	L_POND6E	POND6E	A-30	89.4200	89.3090	No Design
84	L_L-MH-A2	MH-A1	MH-A2	79.0300	78.7800	No Design
85	L_L-MH-A4	MH-A4	MH-A3	78.6900	78.6900	No Design

```
====> Warning !!! Node: A-30            Area = 0.0 at stage      5.691  Area reset to      0.000
====> Warning !!! Node: A-27OFF         Area = 0.0 at stage      0.790  Area reset to      0.000
====> Warning !!! Node: A-13            Area = 0.0 at stage      4.709  Area reset to      0.000
====> Warning !!! Node: A-8             Area = 0.0 at stage      5.115  Area reset to      0.000
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| Storage Junction Data |
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STORAGE JUNCTION NUMBER OR NAME	JUNCTION TYPE	MAXIMUM OR CONSTANT SURFACE AREA (FT2)	PEAK OR CONSTANT VOLUME (CUBIC FEET)	CROWN ELEVATION (FT)	DEPTH STARTS FROM
A-34	Stage/Area	17119.0800	126473.5189	96.0100	Spill Crest
A-35OFF	Stage/Area	60025.6800	201009.9684	94.0000	Spill Crest
A-30	Stage/Area	14374.8000	29608.9964	98.5600	Node Invert
A-27	Stage/Area	17119.0800	111049.2278	97.6100	Spill Crest
A-27OFF	Stage/Area	50442.4800	188859.0679	97.6100	Spill Crest
A-22	Stage/Area	17119.0800	148608.4893	93.1600	Spill Crest
A-23B	Stage/Area	6229.0800	35675.2780	92.4700	Spill Crest
A-14	Stage/Area	17119.0800	110261.7501	94.4200	Spill Crest
A-13	Stage/Area	36590.4000	15029.7947	94.8200	Node Invert
A-8	Stage/Area	123231.2400	288289.9518	97.6100	Node Invert
A-50	Stage/Area	17119.0800	93485.0517	93.1600	Spill Crest
AA-2	Stage/Area	17119.0800	120533.1981	93.0300	Spill Crest
AA-3	Stage/Area	17119.0800	154600.1673	92.9700	Spill Crest
AA-10	Stage/Area	17119.0800	122587.4877	92.9500	Spill Crest
AA-55	Stage/Area	17119.0800	122587.4877	93.0000	Spill Crest
AA-8	Stage/Area	17119.0800	111288.8949	92.7400	Spill Crest
AA-16	Stage/Area	17119.0800	85610.2749	93.1900	Spill Crest
A-23OFF	Stage/Area	211370.5440	173694.8024	94.0000	Node Invert
A-24OFF	Stage/Area	41338.4400	23284.0334	93.5000	Node Invert
POND6C	Stage/Area	70131.6000	476241.1695	96.5000	Node Invert
POND6D	Stage/Area	43995.6000	282614.5246	96.5000	Node Invert
POND5C	Stage/Area	32234.4000	204496.5067	94.8000	Node Invert
POND6E	Stage/Area	279219.6000	2.033255E+06	98.0000	Node Invert

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| Variable storage data for node | A-34
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	88.0330	0.0000	4.3560	0.0000	0.0001	0.0000
2	88.0580	0.0250	150.8265	1.5068	0.0035	0.0000
3	88.0830	0.0500	297.2970	7.0058	0.0068	0.0002
4	88.1080	0.0750	443.7675	16.2082	0.0102	0.0004
5	88.1330	0.1000	590.2380	29.0898	0.0135	0.0007
6	88.1580	0.1250	736.7085	45.6428	0.0169	0.0010
7	88.1830	0.1500	883.1790	65.8638	0.0203	0.0015
8	88.2080	0.1750	1029.6495	89.7507	0.0236	0.0021
9	88.2330	0.2000	1176.1200	117.3026	0.0270	0.0027
10	88.2580	0.2250	1475.5950	150.3783	0.0339	0.0035
11	88.2830	0.2500	1775.0700	190.9540	0.0408	0.0044
12	88.3080	0.2750	2074.5450	239.0256	0.0476	0.0055
13	88.3330	0.3000	2374.0200	294.5906	0.0545	0.0068
14	88.3580	0.3250	2673.4950	357.6475	0.0614	0.0082

15	88.3830	0.3500	2972.9700	428.1952	0.0683	0.0098
16	88.4080	0.3750	3272.4450	506.2330	0.0751	0.0116
17	88.4330	0.4000	3571.9200	591.7602	0.0820	0.0136
18	88.4455	0.4125	3773.3850	637.6626	0.0866	0.0146
19	88.4580	0.4250	3974.8500	686.0836	0.0912	0.0158
20	88.4705	0.4375	4176.3150	737.0232	0.0959	0.0169
21	88.4830	0.4500	4377.7800	790.4814	0.1005	0.0181
22	88.4955	0.4625	4579.2450	846.4581	0.1051	0.0194
23	88.5080	0.4750	4780.7100	904.9533	0.1098	0.0208
24	88.5205	0.4875	4982.1750	965.9670	0.1144	0.0222
25	88.5330	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	88.5455	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	88.5580	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	88.5705	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	88.5830	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	88.5955	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	88.6080	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	88.6205	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	88.6330	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	88.6455	0.6125	7900.6950	1761.8875	0.1814	0.0404
35	88.6580	0.6250	8265.5100	1862.9177	0.1897	0.0428
36	88.6705	0.6375	8630.3250	1968.5084	0.1981	0.0452
37	88.6830	0.6500	8995.1400	2078.6597	0.2065	0.0477
38	88.6955	0.6625	9359.9550	2193.3715	0.2149	0.0504
39	88.7080	0.6750	9724.7700	2312.6438	0.2233	0.0531
40	88.7205	0.6875	10089.5850	2436.4765	0.2316	0.0559
41	88.7330	0.7000	10454.4000	2564.8697	0.2400	0.0589
42	88.7580	0.7250	11287.4850	2836.5767	0.2591	0.0651
43	88.7830	0.7500	12120.5700	3129.1156	0.2782	0.0718
44	88.8080	0.7750	12953.6550	3442.4857	0.2974	0.0790
45	88.8330	0.8000	13786.7400	3776.6866	0.3165	0.0867
46	88.8580	0.8250	14619.8250	4131.7177	0.3356	0.0949
47	88.8830	0.8500	15452.9100	4507.5788	0.3548	0.1035
48	88.9080	0.8750	16285.9950	4904.2696	0.3739	0.1126
49	88.9330	0.9000	17119.0800	5321.7897	0.3930	0.1222
50	96.0100	7.9770	17119.0800	126473.5189	0.3930	2.9034

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| Variable storage data for node | A-35OFF
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	88.7780	0.0000	0.0000	0.0000	0.0000	0.0000
2	88.9030	0.1250	65.3400	2.7225	0.0015	0.0001
3	89.0280	0.2500	130.6800	14.7402	0.0030	0.0003
4	89.1530	0.3750	196.0200	35.0214	0.0045	0.0008
5	89.2780	0.5000	261.3600	63.5099	0.0060	0.0015
6	89.4030	0.6250	326.7000	100.1878	0.0075	0.0023
7	89.5280	0.7500	392.0400	145.0471	0.0090	0.0033
8	89.6530	0.8750	457.3800	198.0834	0.0105	0.0045
9	89.7780	1.0000	522.7200	259.2942	0.0120	0.0060
10	89.8405	1.0625	1671.6150	324.4838	0.0384	0.0074
11	89.9030	1.1250	2820.5100	463.3064	0.0648	0.0106
12	89.9655	1.1875	3969.4050	674.4714	0.0911	0.0155
13	90.0280	1.2500	5118.3000	957.7027	0.1175	0.0220
14	90.0905	1.3125	6267.1950	1312.8940	0.1439	0.0301
15	90.1530	1.3750	7416.0900	1739.9934	0.1702	0.0399
16	90.2155	1.4375	8564.9850	2238.9712	0.1966	0.0514
17	90.2780	1.5000	9713.8800	2809.8093	0.2230	0.0645
18	90.4030	1.6250	16002.8550	4400.8379	0.3674	0.1010
19	90.5280	1.7500	22291.8300	6783.4237	0.5117	0.1557
20	90.6530	1.8750	28580.8050	9954.8337	0.6561	0.2285
21	90.7780	2.0000	34869.7800	13913.9861	0.8005	0.3194
22	90.9030	2.1250	41158.7550	18660.3414	0.9449	0.4284
23	91.0280	2.2500	47447.7300	24193.5911	1.0892	0.5554
24	91.1530	2.3750	53736.7050	30513.5427	1.2336	0.7005
25	91.2780	2.5000	60025.6800	37620.0675	1.3780	0.8636
26	94.0000	5.2220	60025.6800	201009.9684	1.3780	4.6146

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| Variable storage data for node | A-30
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	89.3090	0.0000	0.0000	0.0000	0.0000	0.0000
2	90.0204	0.7114	0.0000	0.0000	0.0000	0.0000
3	90.7317	1.4227	0.0000	0.0000	0.0000	0.0000
4	91.4431	2.1341	0.0000	0.0000	0.0000	0.0000
5	92.1545	2.8455	0.0000	0.0000	0.0000	0.0000
6	92.8659	3.5569	0.0000	0.0000	0.0000	0.0000
7	93.5772	4.2683	0.0000	0.0000	0.0000	0.0000
8	94.2886	4.9796	0.0000	0.0000	0.0000	0.0000
9	95.0000	5.6910	0.0000	0.0000	0.0000	0.0000
10	95.1250	5.8160	5.4450	0.2269	0.0001	0.0000
11	95.2500	5.9410	10.8900	1.2283	0.0003	0.0000
12	95.3750	6.0660	16.3350	2.9185	0.0004	0.0001
13	95.5000	6.1910	21.7800	5.2925	0.0005	0.0001
14	95.6250	6.3160	27.2250	8.3490	0.0006	0.0002
15	95.7500	6.4410	32.6700	12.0873	0.0008	0.0003
16	95.8750	6.5660	38.1150	16.5070	0.0009	0.0004
17	96.0000	6.6910	43.5600	21.6079	0.0010	0.0005
18	96.1250	6.8160	1834.9650	111.6598	0.0421	0.0026
19	96.2500	6.9410	3626.3700	446.6981	0.0833	0.0103
20	96.3750	7.0660	5417.7750	1008.2241	0.1244	0.0231
21	96.5000	7.1910	7209.1800	1794.7479	0.1655	0.0412
22	96.6250	7.3160	9000.5850	2805.7896	0.2066	0.0644
23	96.7500	7.4410	10791.9900	4041.1332	0.2477	0.0928
24	96.8750	7.5660	12583.3950	5500.6625	0.2889	0.1263
25	97.0000	7.6910	14374.8000	7184.3084	0.3300	0.1649
26	98.5600	9.2510	14374.8000	29608.9964	0.3300	0.6797

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| Variable storage data for node | A-27
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	90.5340	0.0000	4.3560	0.0000	0.0001	0.0000
2	90.5590	0.0250	150.8265	1.5068	0.0035	0.0000
3	90.5840	0.0500	297.2970	7.0058	0.0068	0.0002
4	90.6090	0.0750	443.7675	16.2082	0.0102	0.0004
5	90.6340	0.1000	590.2380	29.0898	0.0135	0.0007
6	90.6590	0.1250	736.7085	45.6428	0.0169	0.0010
7	90.6840	0.1500	883.1790	65.8638	0.0203	0.0015
8	90.7090	0.1750	1029.6495	89.7507	0.0236	0.0021
9	90.7340	0.2000	1176.1200	117.3026	0.0270	0.0027
10	90.7590	0.2250	1475.5950	150.3783	0.0339	0.0035
11	90.7840	0.2500	1775.0700	190.9540	0.0408	0.0044
12	90.8090	0.2750	2074.5450	239.0256	0.0476	0.0055
13	90.8340	0.3000	2374.0200	294.5906	0.0545	0.0068
14	90.8590	0.3250	2673.4950	357.6475	0.0614	0.0082
15	90.8840	0.3500	2972.9700	428.1952	0.0683	0.0098
16	90.9090	0.3750	3272.4450	506.2330	0.0751	0.0116
17	90.9340	0.4000	3571.9200	591.7602	0.0820	0.0136
18	90.9465	0.4125	3773.3850	637.6626	0.0866	0.0146
19	90.9590	0.4250	3974.8500	686.0836	0.0912	0.0158

20	90.9715	0.4375	4176.3150	737.0232	0.0959	0.0169
21	90.9840	0.4500	4377.7800	790.4814	0.1005	0.0181
22	90.9965	0.4625	4579.2450	846.4581	0.1051	0.0194
23	91.0090	0.4750	4780.7100	904.9533	0.1098	0.0208
24	91.0215	0.4875	4982.1750	965.9670	0.1144	0.0222
25	91.0340	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	91.0465	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	91.0590	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	91.0715	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	91.0840	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	91.0965	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	91.1090	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	91.1215	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	91.1340	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	91.1465	0.6125	7900.6950	1761.8875	0.1814	0.0404
35	91.1590	0.6250	8265.5100	1862.9177	0.1897	0.0428
36	91.1715	0.6375	8630.3250	1968.5084	0.1981	0.0452
37	91.1840	0.6500	8995.1400	2078.6597	0.2065	0.0477
38	91.1965	0.6625	9359.9550	2193.3715	0.2149	0.0504
39	91.2090	0.6750	9724.7700	2312.6438	0.2233	0.0531
40	91.2215	0.6875	10089.5850	2436.4765	0.2316	0.0559
41	91.2340	0.7000	10454.4000	2564.8697	0.2400	0.0589
42	91.2590	0.7250	11287.4850	2836.5767	0.2591	0.0651
43	91.2840	0.7500	12120.5700	3129.1156	0.2782	0.0718
44	91.3090	0.7750	12953.6550	3442.4857	0.2974	0.0790
45	91.3340	0.8000	13786.7400	3776.6866	0.3165	0.0867
46	91.3590	0.8250	14619.8250	4131.7177	0.3356	0.0949
47	91.3840	0.8500	15452.9100	4507.5788	0.3548	0.1035
48	91.4090	0.8750	16285.9950	4904.2696	0.3739	0.1126
49	91.4340	0.9000	17119.0800	5321.7897	0.3930	0.1222
50	97.6100	7.0760	17119.0800	111049.2278	0.3930	2.5493

==================================
| Variable storage data for node | A-27OFF
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	92.5720	0.0000	0.0000	0.0000	0.0000	0.0000
2	92.6707	0.0988	0.0000	0.0000	0.0000	0.0000
3	92.7695	0.1975	0.0000	0.0000	0.0000	0.0000
4	92.8683	0.2963	0.0000	0.0000	0.0000	0.0000
5	92.9670	0.3950	0.0000	0.0000	0.0000	0.0000
6	93.0658	0.4938	0.0000	0.0000	0.0000	0.0000
7	93.1645	0.5925	0.0000	0.0000	0.0000	0.0000
8	93.2632	0.6913	0.0000	0.0000	0.0000	0.0000
9	93.3620	0.7900	0.0000	0.0000	0.0000	0.0000
10	93.4870	0.9150	6305.3100	262.7212	0.1447	0.0060
11	93.6120	1.0400	12610.6200	1422.4290	0.2895	0.0327
12	93.7370	1.1650	18915.9300	3379.5682	0.4342	0.0776
13	93.8620	1.2900	25221.2400	6128.7101	0.5790	0.1407
14	93.9870	1.4150	31526.5500	9668.1265	0.7237	0.2219
15	94.1120	1.5400	37831.8600	13997.0438	0.8685	0.3213
16	94.2370	1.6650	44137.1700	19115.0483	1.0132	0.4388
17	94.3620	1.7900	50442.4800	25021.8929	1.1580	0.5744
18	97.6100	5.0380	50442.4800	188859.0679	1.1580	4.3356

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| Variable storage data for node | A-22
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	83.8900	0.0000	4.3560	0.0000	0.0001	0.0000
2	83.9150	0.0250	150.8265	1.5068	0.0035	0.0000
3	83.9400	0.0500	297.2970	7.0058	0.0068	0.0002
4	83.9650	0.0750	443.7675	16.2082	0.0102	0.0004
5	83.9900	0.1000	590.2380	29.0898	0.0135	0.0007
6	84.0150	0.1250	736.7085	45.6428	0.0169	0.0010
7	84.0400	0.1500	883.1790	65.8638	0.0203	0.0015
8	84.0650	0.1750	1029.6495	89.7507	0.0236	0.0021
9	84.0900	0.2000	1176.1200	117.3026	0.0270	0.0027
10	84.1150	0.2250	1475.5950	150.3783	0.0339	0.0035
11	84.1400	0.2500	1775.0700	190.9540	0.0408	0.0044
12	84.1650	0.2750	2074.5450	239.0256	0.0476	0.0055
13	84.1900	0.3000	2374.0200	294.5906	0.0545	0.0068
14	84.2150	0.3250	2673.4950	357.6475	0.0614	0.0082
15	84.2400	0.3500	2972.9700	428.1952	0.0683	0.0098
16	84.2650	0.3750	3272.4450	506.2330	0.0751	0.0116
17	84.2900	0.4000	3571.9200	591.7602	0.0820	0.0136
18	84.3025	0.4125	3773.3850	637.6626	0.0866	0.0146
19	84.3150	0.4250	3974.8500	686.0836	0.0912	0.0158
20	84.3275	0.4375	4176.3150	737.0232	0.0959	0.0169
21	84.3400	0.4500	4377.7800	790.4814	0.1005	0.0181
22	84.3525	0.4625	4579.2450	846.4581	0.1051	0.0194
23	84.3650	0.4750	4780.7100	904.9533	0.1098	0.0208
24	84.3775	0.4875	4982.1750	965.9670	0.1144	0.0222
25	84.3900	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	84.4025	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	84.4150	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	84.4275	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	84.4400	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	84.4525	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	84.4650	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	84.4775	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	84.4900	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	84.5025	0.6125	7900.6950	1761.8875	0.1814	0.0404
35	84.5150	0.6250	8265.5100	1862.9177	0.1897	0.0428
36	84.5275	0.6375	8630.3250	1968.5084	0.1981	0.0452
37	84.5400	0.6500	8995.1400	2078.6597	0.2065	0.0477
38	84.5525	0.6625	9359.9550	2193.3715	0.2149	0.0504
39	84.5650	0.6750	9724.7700	2312.6438	0.2233	0.0531
40	84.5775	0.6875	10089.5850	2436.4765	0.2316	0.0559
41	84.5900	0.7000	10454.4000	2564.8697	0.2400	0.0589
42	84.6150	0.7250	11287.4850	2836.5767	0.2591	0.0651
43	84.6400	0.7500	12120.5700	3129.1156	0.2782	0.0718
44	84.6650	0.7750	12953.6550	3442.4857	0.2974	0.0790
45	84.6900	0.8000	13786.7400	3776.6866	0.3165	0.0867
46	84.7150	0.8250	14619.8250	4131.7177	0.3356	0.0949
47	84.7400	0.8500	15452.9100	4507.5788	0.3548	0.1035
48	84.7650	0.8750	16285.9950	4904.2696	0.3739	0.1126
49	84.7900	0.9000	17119.0800	5321.7897	0.3930	0.1222
50	93.1600	9.2700	17119.0800	148608.4893	0.3930	3.4116

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| Variable storage data for node | A-23B
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	85.7500	0.0000	0.0000	0.0000	0.0000	0.0000
2	85.9963	0.2462	778.6350	63.9130	0.0179	0.0015
3	86.2425	0.4925	1557.2700	346.0384	0.0357	0.0079
4	86.4887	0.7388	2335.9050	822.1573	0.0536	0.0189
5	86.7350	0.9850	3114.5400	1490.9490	0.0715	0.0342
6	86.9813	1.2312	3893.1750	2351.9930	0.0894	0.0540
7	87.2275	1.4775	4671.8100	3405.1012	0.1072	0.0782
8	87.4737	1.7237	5450.4450	4650.1729	0.1251	0.1068

9	87.7200	1.9700	6229.0800	6087.1480	0.1430	0.1397
10	92.4700	6.7200	6229.0800	35675.2780	0.1430	0.8190

Variable storage data for node | A-14						
Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	87.3900	0.0000	4.3560	0.0000	0.0001	0.0000
2	87.4150	0.0250	150.8265	1.5068	0.0035	0.0000
3	87.4400	0.0500	297.2970	7.0058	0.0068	0.0002
4	87.4650	0.0750	443.7675	16.2082	0.0102	0.0004
5	87.4900	0.1000	590.2380	29.0898	0.0135	0.0007
6	87.5150	0.1250	736.7085	45.6428	0.0169	0.0010
7	87.5400	0.1500	883.1790	65.8638	0.0203	0.0015
8	87.5650	0.1750	1029.6495	89.7507	0.0236	0.0021
9	87.5900	0.2000	1176.1200	117.3026	0.0270	0.0027
10	87.6150	0.2250	1475.5950	150.3783	0.0339	0.0035
11	87.6400	0.2500	1775.0700	190.9540	0.0408	0.0044
12	87.6650	0.2750	2074.5450	239.0256	0.0476	0.0055
13	87.6900	0.3000	2374.0200	294.5906	0.0545	0.0068
14	87.7150	0.3250	2673.4950	357.6475	0.0614	0.0082
15	87.7400	0.3500	2972.9700	428.1952	0.0683	0.0098
16	87.7650	0.3750	3272.4450	506.2330	0.0751	0.0116
17	87.7900	0.4000	3571.9200	591.7602	0.0820	0.0136
18	87.8025	0.4125	3773.3850	637.6626	0.0866	0.0146
19	87.8150	0.4250	3974.8500	686.0836	0.0912	0.0158
20	87.8275	0.4375	4176.3150	737.0232	0.0959	0.0169
21	87.8400	0.4500	4377.7800	790.4814	0.1005	0.0181
22	87.8525	0.4625	4579.2450	846.4581	0.1051	0.0194
23	87.8650	0.4750	4780.7100	904.9533	0.1098	0.0208
24	87.8775	0.4875	4982.1750	965.9670	0.1144	0.0222
25	87.8900	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	87.9025	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	87.9150	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	87.9275	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	87.9400	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	87.9525	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	87.9650	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	87.9775	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	87.9900	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	88.0025	0.6125	7900.6950	1761.8875	0.1814	0.0404
35	88.0150	0.6250	8265.5100	1862.9177	0.1897	0.0428
36	88.0275	0.6375	8630.3250	1968.5084	0.1981	0.0452
37	88.0400	0.6500	8995.1400	2078.6597	0.2065	0.0477
38	88.0525	0.6625	9359.9550	2193.3715	0.2149	0.0504
39	88.0650	0.6750	9724.7700	2312.6438	0.2233	0.0531
40	88.0775	0.6875	10089.5850	2436.4765	0.2316	0.0559
41	88.0900	0.7000	10454.4000	2564.8697	0.2400	0.0589
42	88.1150	0.7250	11287.4850	2836.5767	0.2591	0.0651
43	88.1400	0.7500	12120.5700	3129.1156	0.2782	0.0718
44	88.1650	0.7750	12953.6550	3442.4857	0.2974	0.0790
45	88.1900	0.8000	13786.7400	3776.6866	0.3165	0.0867
46	88.2150	0.8250	14619.8250	4131.7177	0.3356	0.0949
47	88.2400	0.8500	15452.9100	4507.5788	0.3548	0.1035
48	88.2650	0.8750	16285.9950	4904.2696	0.3739	0.1126
49	88.2900	0.9000	17119.0800	5321.7897	0.3930	0.1222
50	94.4200	7.0300	17119.0800	110261.7501	0.3930	2.5313

Variable storage data for node | A-13						
Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	87.5910	0.0000	0.0000	0.0000	0.0000	0.0000
2	88.1796	0.5886	0.0000	0.0000	0.0000	0.0000
3	88.7682	1.1772	0.0000	0.0000	0.0000	0.0000
4	89.3569	1.7659	0.0000	0.0000	0.0000	0.0000
5	89.9455	2.3545	0.0000	0.0000	0.0000	0.0000
6	90.5341	2.9431	0.0000	0.0000	0.0000	0.0000
7	91.1227	3.5317	0.0000	0.0000	0.0000	0.0000
8	91.7114	4.1204	0.0000	0.0000	0.0000	0.0000
9	92.3000	4.7090	0.0000	0.0000	0.0000	0.0000
10	92.4875	4.8965	54.4500	3.4031	0.0013	0.0001
11	92.6750	5.0840	108.9000	18.4252	0.0025	0.0004
12	92.8625	5.2715	163.3500	43.7768	0.0037	0.0010
13	93.0500	5.4590	217.8000	79.3874	0.0050	0.0018
14	93.2375	5.6465	272.2500	125.2348	0.0062	0.0029
15	93.4250	5.8340	326.7000	181.3089	0.0075	0.0042
16	93.6125	6.0215	381.1500	247.6043	0.0088	0.0057
17	93.8000	6.2090	435.6000	324.1178	0.0100	0.0074
18	93.8625	6.2715	762.3000	361.0791	0.0175	0.0083
19	93.9250	6.3340	1089.0000	418.6296	0.0250	0.0096
20	93.9875	6.3965	1415.7000	496.6786	0.0325	0.0114
21	94.0500	6.4590	1742.4000	595.1927	0.0400	0.0137
22	94.1125	6.5215	2069.1000	714.1560	0.0475	0.0164
23	94.1750	6.5840	2395.8000	853.5594	0.0550	0.0196
24	94.2375	6.6465	2722.5000	1013.3976	0.0625	0.0233
25	94.3000	6.7090	3049.2000	1193.6668	0.0700	0.0274
26	94.3875	6.7965	7241.8500	1630.8805	0.1663	0.0374
27	94.4750	6.8840	11434.5000	2441.0191	0.2625	0.0560
28	94.5625	6.9715	15627.1500	3620.2011	0.3588	0.0831
29	94.6500	7.0590	19819.8000	5167.3765	0.4550	0.1186
30	94.7375	7.1465	24012.4500	7082.1065	0.5513	0.1626
31	94.8250	7.2340	28205.1000	9364.1657	0.6475	0.2150
32	94.9125	7.3215	32397.7500	12013.4228	0.7438	0.2758
33	95.0000	7.4090	36590.4000	15029.7947	0.8400	0.3450

Variable storage data for node | A-8						
Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	88.9850	0.0000	0.0000	0.0000	0.0000	0.0000
2	89.6244	0.6394	0.0000	0.0000	0.0000	0.0000
3	90.2638	1.2788	0.0000	0.0000	0.0000	0.0000
4	90.9031	1.9181	0.0000	0.0000	0.0000	0.0000
5	91.5425	2.5575	0.0000	0.0000	0.0000	0.0000
6	92.1819	3.1969	0.0000	0.0000	0.0000	0.0000
7	92.8213	3.8363	0.0000	0.0000	0.0000	0.0000
8	93.4606	4.4756	0.0000	0.0000	0.0000	0.0000
9	94.1000	5.1150	0.0000	0.0000	0.0000	0.0000
10	94.2250	5.2400	5101.9650	212.5819	0.1171	0.0049
11	94.3500	5.3650	10203.9300	1150.9637	0.2342	0.0264
12	94.4750	5.4900	15305.8950	2734.5902	0.3514	0.0628
13	94.6000	5.6150	20407.8600	4959.0685	0.4685	0.1138
14	94.7250	5.7400	25509.8250	7823.0004	0.5856	0.1796
15	94.8500	5.8650	30611.7900	11325.7599	0.7027	0.2600
16	94.9750	5.9900	35713.7550	15467.0123	0.8199	0.3551
17	95.1000	6.1150	40815.7200	20246.5575	0.9370	0.4648
18	95.2250	6.2400	51117.6600	25980.3306	1.1735	0.5964
19	95.3500	6.3650	61419.6000	33004.0650	1.4100	0.7577
20	95.4750	6.4900	71721.5400	41317.0705	1.6465	0.9485
21	95.6000	6.6150	82023.4800	50918.9355	1.8830	1.1689
22	95.7250	6.7400	92325.4200	61809.3954	2.1195	1.4189

23	95.8500	6.8650	102627.3600	73988.2694	2.3560	1.6985
24	95.9750	6.9900	112929.3000	87455.4291	2.5925	2.0077
25	96.1000	7.1150	123231.2400	102210.7794	2.8290	2.3464
26	97.6100	8.6250	123231.2400	288289.9518	2.8290	6.6182

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| Variable storage data for node | A-50
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	87.1100	0.0000	4.3560	0.0000	0.0001	0.0000
2	87.1350	0.0250	150.8265	1.5068	0.0035	0.0000
3	87.1600	0.0500	297.2970	7.0058	0.0068	0.0002
4	87.1850	0.0750	443.7675	16.2082	0.0102	0.0004
5	87.2100	0.1000	590.2380	29.0898	0.0135	0.0007
6	87.2350	0.1250	736.7085	45.6428	0.0169	0.0010
7	87.2600	0.1500	883.1790	65.8638	0.0203	0.0015
8	87.2850	0.1750	1029.6495	89.7507	0.0236	0.0021
9	87.3100	0.2000	1176.1200	117.3026	0.0270	0.0027
10	87.3350	0.2250	1475.5950	150.3783	0.0339	0.0035
11	87.3600	0.2500	1775.0700	190.9540	0.0408	0.0044
12	87.3850	0.2750	2074.5450	239.0256	0.0476	0.0055
13	87.4100	0.3000	2374.0200	294.5906	0.0545	0.0068
14	87.4350	0.3250	2673.4950	357.6475	0.0614	0.0082
15	87.4600	0.3500	2972.9700	428.1952	0.0683	0.0098
16	87.4850	0.3750	3272.4450	506.2330	0.0751	0.0116
17	87.5100	0.4000	3571.9200	591.7602	0.0820	0.0136
18	87.5225	0.4125	3773.3850	637.6626	0.0866	0.0146
19	87.5350	0.4250	3974.8500	686.0836	0.0912	0.0158
20	87.5475	0.4375	4176.3150	737.0232	0.0959	0.0169
21	87.5600	0.4500	4377.7800	790.4814	0.1005	0.0181
22	87.5725	0.4625	4579.2450	846.4581	0.1051	0.0194
23	87.5850	0.4750	4780.7100	904.9533	0.1098	0.0208
24	87.5975	0.4875	4982.1750	965.9670	0.1144	0.0222
25	87.6100	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	87.6225	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	87.6350	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	87.6475	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	87.6600	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	87.6725	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	87.6850	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	87.6975	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	87.7100	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	87.7225	0.6125	7900.6950	1761.8875	0.1814	0.0404
35	87.7350	0.6250	8265.5100	1862.9177	0.1897	0.0428
36	87.7475	0.6375	8630.3250	1968.5084	0.1981	0.0452
37	87.7600	0.6500	8995.1400	2078.6597	0.2065	0.0477
38	87.7725	0.6625	9359.9550	2193.3715	0.2149	0.0504
39	87.7850	0.6750	9724.7700	2312.6438	0.2233	0.0531
40	87.7975	0.6875	10089.5850	2436.4765	0.2316	0.0559
41	87.8100	0.7000	10454.4000	2564.8697	0.2400	0.0589
42	87.8350	0.7250	11287.4850	2836.5767	0.2591	0.0651
43	87.8600	0.7500	12120.5700	3129.1156	0.2782	0.0718
44	87.8850	0.7750	12953.6550	3442.4857	0.2974	0.0790
45	87.9100	0.8000	13786.7400	3776.6866	0.3165	0.0867
46	87.9350	0.8250	14619.8250	4131.7177	0.3356	0.0949
47	87.9600	0.8500	15452.9100	4507.5788	0.3548	0.1035
48	87.9850	0.8750	16285.9950	4904.2696	0.3739	0.1126
49	88.0100	0.9000	17119.0800	5321.7897	0.3930	0.1222
50	93.1600	6.0500	17119.0800	93485.0517	0.3930	2.1461

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| Variable storage data for node | AA-2
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	85.4000	0.0000	4.3560	0.0000	0.0001	0.0000
2	85.4250	0.0250	150.8265	1.5068	0.0035	0.0000
3	85.4500	0.0500	297.2970	7.0058	0.0068	0.0002
4	85.4750	0.0750	443.7675	16.2082	0.0102	0.0004
5	85.5000	0.1000	590.2380	29.0898	0.0135	0.0007
6	85.5250	0.1250	736.7085	45.6428	0.0169	0.0010
7	85.5500	0.1500	883.1790	65.8638	0.0203	0.0015
8	85.5750	0.1750	1029.6495	89.7507	0.0236	0.0021
9	85.6000	0.2000	1176.1200	117.3026	0.0270	0.0027
10	85.6250	0.2250	1475.5950	150.3783	0.0339	0.0035
11	85.6500	0.2500	1775.0700	190.9540	0.0408	0.0044
12	85.6750	0.2750	2074.5450	239.0256	0.0476	0.0055
13	85.7000	0.3000	2374.0200	294.5906	0.0545	0.0068
14	85.7250	0.3250	2673.4950	357.6475	0.0614	0.0082
15	85.7500	0.3500	2972.9700	428.1952	0.0683	0.0098
16	85.7750	0.3750	3272.4450	506.2330	0.0751	0.0116
17	85.8000	0.4000	3571.9200	591.7602	0.0820	0.0136
18	85.8125	0.4125	3773.3850	637.6626	0.0866	0.0146
19	85.8250	0.4250	3974.8500	686.0836	0.0912	0.0158
20	85.8375	0.4375	4176.3150	737.0232	0.0959	0.0169
21	85.8500	0.4500	4377.7800	790.4814	0.1005	0.0181
22	85.8625	0.4625	4579.2450	846.4581	0.1051	0.0194
23	85.8750	0.4750	4780.7100	904.9533	0.1098	0.0208
24	85.8875	0.4875	4982.1750	965.9670	0.1144	0.0222
25	85.9000	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	85.9125	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	85.9250	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	85.9375	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	85.9500	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	85.9625	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	85.9750	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	85.9875	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	86.0000	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	86.0125	0.6125	7900.6950	1761.8875	0.1814	0.0404
35	86.0250	0.6250	8265.5100	1862.9177	0.1897	0.0428
36	86.0375	0.6375	8630.3250	1968.5084	0.1981	0.0452
37	86.0500	0.6500	8995.1400	2078.6597	0.2065	0.0477
38	86.0625	0.6625	9359.9550	2193.3715	0.2149	0.0504
39	86.0750	0.6750	9724.7700	2312.6438	0.2233	0.0531
40	86.0875	0.6875	10089.5850	2436.4765	0.2316	0.0559
41	86.1000	0.7000	10454.4000	2564.8697	0.2400	0.0589
42	86.1250	0.7250	11287.4850	2836.5767	0.2591	0.0651
43	86.1500	0.7500	12120.5700	3129.1156	0.2782	0.0718
44	86.1750	0.7750	12953.6550	3442.4857	0.2974	0.0790
45	86.2000	0.8000	13786.7400	3776.6866	0.3165	0.0867
46	86.2250	0.8250	14619.8250	4131.7177	0.3356	0.0949
47	86.2500	0.8500	15452.9100	4507.5788	0.3548	0.1035
48	86.2750	0.8750	16285.9950	4904.2696	0.3739	0.1126
49	86.3000	0.9000	17119.0800	5321.7897	0.3930	0.1222
50	93.0300	7.6300	17119.0800	120533.1981	0.3930	2.7671

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| Variable storage data for node | AA-3
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	83.3500	0.0000	4.3560	0.0000	0.0001	0.0000
2	83.3750	0.0250	150.8265	1.5068	0.0035	0.0000
3	83.4000	0.0500	297.2970	7.0058	0.0068	0.0002

4	83.4250	0.0750	443.7675	16.2082	0.0102	0.0004
5	83.4500	0.1000	590.2380	29.0898	0.0135	0.0007
6	83.4750	0.1250	736.7085	45.6428	0.0169	0.0010
7	83.5000	0.1500	883.1790	65.8638	0.0203	0.0015
8	83.5250	0.1750	1029.6495	89.7507	0.0236	0.0021
9	83.5500	0.2000	1176.1200	117.3026	0.0270	0.0027
10	83.5750	0.2250	1475.5950	150.3783	0.0339	0.0035
11	83.6000	0.2500	1775.0700	190.9540	0.0408	0.0044
12	83.6250	0.2750	2074.5450	239.0256	0.0476	0.0055
13	83.6500	0.3000	2374.0200	294.5906	0.0545	0.0068
14	83.6750	0.3250	2673.4950	357.6475	0.0614	0.0082
15	83.7000	0.3500	2972.9700	428.1952	0.0683	0.0098
16	83.7250	0.3750	3272.4450	506.2330	0.0751	0.0116
17	83.7500	0.4000	3571.9200	591.7602	0.0820	0.0136
18	83.7625	0.4125	3773.3850	637.6626	0.0866	0.0146
19	83.7750	0.4250	3974.8500	686.0836	0.0912	0.0158
20	83.7875	0.4375	4176.3150	737.0232	0.0959	0.0169
21	83.8000	0.4500	4377.7800	790.4814	0.1005	0.0181
22	83.8125	0.4625	4579.2450	846.4581	0.1051	0.0194
23	83.8250	0.4750	4780.7100	904.9533	0.1098	0.0208
24	83.8375	0.4875	4982.1750	965.9670	0.1144	0.0222
25	83.8500	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	83.8625	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	83.8750	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	83.8875	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	83.9000	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	83.9125	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	83.9250	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	83.9375	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	83.9500	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	83.9625	0.6125	7900.6950	1761.8875	0.1814	0.0404
35	83.9750	0.6250	8265.5100	1862.9177	0.1897	0.0428
36	83.9875	0.6375	8630.3250	1968.5084	0.1981	0.0452
37	84.0000	0.6500	8995.1400	2078.6597	0.2065	0.0477
38	84.0125	0.6625	9359.9550	2193.3715	0.2149	0.0504
39	84.0250	0.6750	9724.7700	2312.6438	0.2233	0.0531
40	84.0375	0.6875	10089.5850	2436.4765	0.2316	0.0559
41	84.0500	0.7000	10454.4000	2564.8697	0.2400	0.0589
42	84.0750	0.7250	11287.4850	2836.5767	0.2591	0.0651
43	84.1000	0.7500	12120.5700	3129.1156	0.2782	0.0718
44	84.1250	0.7750	12953.6550	3442.4857	0.2974	0.0790
45	84.1500	0.8000	13786.7400	3776.6866	0.3165	0.0867
46	84.1750	0.8250	14619.8250	4131.7177	0.3356	0.0949
47	84.2000	0.8500	15452.9100	4507.5788	0.3548	0.1035
48	84.2250	0.8750	16285.9950	4904.2696	0.3739	0.1126
49	84.2500	0.9000	17119.0800	5321.7897	0.3930	0.1222
50	92.9700	9.6200	17119.0800	154600.1673	0.3930	3.5491

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| Variable storage data for node | AA-10
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	85.2000	0.0000	4.3560	0.0000	0.0001	0.0000
2	85.2250	0.0250	150.8265	1.5068	0.0035	0.0000
3	85.2500	0.0500	297.2970	7.0058	0.0068	0.0002
4	85.2750	0.0750	443.7675	16.2082	0.0102	0.0004
5	85.3000	0.1000	590.2380	29.0898	0.0135	0.0007
6	85.3250	0.1250	736.7085	45.6428	0.0169	0.0010
7	85.3500	0.1500	883.1790	65.8638	0.0203	0.0015
8	85.3750	0.1750	1029.6495	89.7507	0.0236	0.0021
9	85.4000	0.2000	1176.1200	117.3026	0.0270	0.0027
10	85.4250	0.2250	1475.5950	150.3783	0.0339	0.0035
11	85.4500	0.2500	1775.0700	190.9540	0.0408	0.0044
12	85.4750	0.2750	2074.5450	239.0256	0.0476	0.0055
13	85.5000	0.3000	2374.0200	294.5906	0.0545	0.0068
14	85.5250	0.3250	2673.4950	357.6475	0.0614	0.0082
15	85.5500	0.3500	2972.9700	428.1952	0.0683	0.0098
16	85.5750	0.3750	3272.4450	506.2330	0.0751	0.0116
17	85.6000	0.4000	3571.9200	591.7602	0.0820	0.0136
18	85.6125	0.4125	3773.3850	637.6626	0.0866	0.0146
19	85.6250	0.4250	3974.8500	686.0836	0.0912	0.0158
20	85.6375	0.4375	4176.3150	737.0232	0.0959	0.0169
21	85.6500	0.4500	4377.7800	790.4814	0.1005	0.0181
22	85.6625	0.4625	4579.2450	846.4581	0.1051	0.0194
23	85.6750	0.4750	4780.7100	904.9533	0.1098	0.0208
24	85.6875	0.4875	4982.1750	965.9670	0.1144	0.0222
25	85.7000	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	85.7125	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	85.7250	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	85.7375	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	85.7500	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	85.7625	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	85.7750	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	85.7875	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	85.8000	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	85.8125	0.6125	7900.6950	1761.8875	0.1814	0.0404
35	85.8250	0.6250	8265.5100	1862.9177	0.1897	0.0428
36	85.8375	0.6375	8630.3250	1968.5084	0.1981	0.0452
37	85.8500	0.6500	8995.1400	2078.6597	0.2065	0.0477
38	85.8625	0.6625	9359.9550	2193.3715	0.2149	0.0504
39	85.8750	0.6750	9724.7700	2312.6438	0.2233	0.0531
40	85.8875	0.6875	10089.5850	2436.4765	0.2316	0.0559
41	85.9000	0.7000	10454.4000	2564.8697	0.2400	0.0589
42	85.9250	0.7250	11287.4850	2836.5767	0.2591	0.0651
43	85.9500	0.7500	12120.5700	3129.1156	0.2782	0.0718
44	85.9750	0.7750	12953.6550	3442.4857	0.2974	0.0790
45	86.0000	0.8000	13786.7400	3776.6866	0.3165	0.0867
46	86.0250	0.8250	14619.8250	4131.7177	0.3356	0.0949
47	86.0500	0.8500	15452.9100	4507.5788	0.3548	0.1035
48	86.0750	0.8750	16285.9950	4904.2696	0.3739	0.1126
49	86.1000	0.9000	17119.0800	5321.7897	0.3930	0.1222
50	92.9500	7.7500	17119.0800	122587.4877	0.3930	2.8142

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| Variable storage data for node | AA-55
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	85.2500	0.0000	4.3560	0.0000	0.0001	0.0000
2	85.2750	0.0250	150.8265	1.5068	0.0035	0.0000
3	85.3000	0.0500	297.2970	7.0058	0.0068	0.0002
4	85.3250	0.0750	443.7675	16.2082	0.0102	0.0004
5	85.3500	0.1000	590.2380	29.0898	0.0135	0.0007
6	85.3750	0.1250	736.7085	45.6428	0.0169	0.0010
7	85.4000	0.1500	883.1790	65.8638	0.0203	0.0015
8	85.4250	0.1750	1029.6495	89.7507	0.0236	0.0021
9	85.4500	0.2000	1176.1200	117.3026	0.0270	0.0027
10	85.4750	0.2250	1475.5950	150.3783	0.0339	0.0035
11	85.5000	0.2500	1775.0700	190.9540	0.0408	0.0044
12	85.5250	0.2750	2074.5450	239.0256	0.0476	0.0055
13	85.5500	0.3000	2374.0200	294.5906	0.0545	0.0068
14	85.5750	0.3250	2673.4950	357.6475	0.0614	0.0082
15	85.6000	0.3500	2972.9700	428.1952	0.0683	0.0098
16	85.6250	0.3750	3272.4450	506.2330	0.0751	0.0116
17	85.6500	0.4000	3571.9200	591.7602	0.0820	0.0136

18	85.6625	0.4125	3773.3850	637.6626	0.0866	0.0146
19	85.6750	0.4250	3974.8500	686.0836	0.0912	0.0158
20	85.6875	0.4375	4176.3150	737.0232	0.0959	0.0169
21	85.7000	0.4500	4377.7800	790.4814	0.1005	0.0181
22	85.7125	0.4625	4579.2450	846.4581	0.1051	0.0194
23	85.7250	0.4750	4780.7100	904.9533	0.1098	0.0208
24	85.7375	0.4875	4982.1750	965.9670	0.1144	0.0222
25	85.7500	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	85.7625	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	85.7750	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	85.7875	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	85.8000	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	85.8125	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	85.8250	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	85.8375	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	85.8500	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	85.8625	0.6125	7900.6950	1761.8875	0.1814	0.0404
35	85.8750	0.6250	8265.5100	1862.9177	0.1897	0.0428
36	85.8875	0.6375	8630.3250	1968.5084	0.1981	0.0452
37	85.9000	0.6500	8995.1400	2078.6597	0.2065	0.0477
38	85.9125	0.6625	9359.9550	2193.3715	0.2149	0.0504
39	85.9250	0.6750	9724.7700	2312.6438	0.2233	0.0531
40	85.9375	0.6875	10089.5850	2436.4765	0.2316	0.0559
41	85.9500	0.7000	10454.4000	2564.8697	0.2400	0.0589
42	85.9750	0.7250	11287.4850	2836.5767	0.2591	0.0651
43	86.0000	0.7500	12120.5700	3129.1156	0.2782	0.0718
44	86.0250	0.7750	12953.6550	3442.4857	0.2974	0.0790
45	86.0500	0.8000	13786.7400	3776.6866	0.3165	0.0867
46	86.0750	0.8250	14619.8250	4131.7177	0.3356	0.0949
47	86.1000	0.8500	15452.9100	4507.5788	0.3548	0.1035
48	86.1250	0.8750	16285.9950	4904.2696	0.3739	0.1126
49	86.1500	0.9000	17119.0800	5321.7897	0.3930	0.1222
50	93.0000	7.7500	17119.0800	122587.4877	0.3930	2.8142

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| Variable storage data for node | AA-8
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	85.6500	0.0000	4.3560	0.0000	0.0001	0.0000
2	85.6750	0.0250	150.8265	1.5068	0.0035	0.0000
3	85.7000	0.0500	297.2970	7.0058	0.0068	0.0002
4	85.7250	0.0750	443.7675	16.2082	0.0102	0.0004
5	85.7500	0.1000	590.2380	29.0898	0.0135	0.0007
6	85.7750	0.1250	736.7085	45.6428	0.0169	0.0010
7	85.8000	0.1500	883.1790	65.8638	0.0203	0.0015
8	85.8250	0.1750	1029.6495	89.7507	0.0236	0.0021
9	85.8500	0.2000	1176.1200	117.3026	0.0270	0.0027
10	85.8750	0.2250	1475.5950	150.3783	0.0339	0.0035
11	85.9000	0.2500	1775.0700	190.9540	0.0408	0.0044
12	85.9250	0.2750	2074.5450	239.0256	0.0476	0.0055
13	85.9500	0.3000	2374.0200	294.5906	0.0545	0.0068
14	85.9750	0.3250	2673.4950	357.6475	0.0614	0.0082
15	86.0000	0.3500	2972.9700	428.1952	0.0683	0.0098
16	86.0250	0.3750	3272.4450	506.2330	0.0751	0.0116
17	86.0500	0.4000	3571.9200	591.7602	0.0820	0.0136
18	86.0625	0.4125	3773.3850	637.6626	0.0866	0.0146
19	86.0750	0.4250	3974.8500	686.0836	0.0912	0.0158
20	86.0875	0.4375	4176.3150	737.0232	0.0959	0.0169
21	86.1000	0.4500	4377.7800	790.4814	0.1005	0.0181
22	86.1125	0.4625	4579.2450	846.4581	0.1051	0.0194
23	86.1250	0.4750	4780.7100	904.9533	0.1098	0.0208
24	86.1375	0.4875	4982.1750	965.9670	0.1144	0.0222
25	86.1500	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	86.1625	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	86.1750	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	86.1875	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	86.2000	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	86.2125	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	86.2250	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	86.2375	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	86.2500	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	86.2625	0.6125	7900.6950	1761.8875	0.1814	0.0404
35	86.2750	0.6250	8265.5100	1862.9177	0.1897	0.0428
36	86.2875	0.6375	8630.3250	1968.5084	0.1981	0.0452
37	86.3000	0.6500	8995.1400	2078.6597	0.2065	0.0477
38	86.3125	0.6625	9359.9550	2193.3715	0.2149	0.0504
39	86.3250	0.6750	9724.7700	2312.6438	0.2233	0.0531
40	86.3375	0.6875	10089.5850	2436.4765	0.2316	0.0559
41	86.3500	0.7000	10454.4000	2564.8697	0.2400	0.0589
42	86.3750	0.7250	11287.4850	2836.5767	0.2591	0.0651
43	86.4000	0.7500	12120.5700	3129.1156	0.2782	0.0718
44	86.4250	0.7750	12953.6550	3442.4857	0.2974	0.0790
45	86.4500	0.8000	13786.7400	3776.6866	0.3165	0.0867
46	86.4750	0.8250	14619.8250	4131.7177	0.3356	0.0949
47	86.5000	0.8500	15452.9100	4507.5788	0.3548	0.1035
48	86.5250	0.8750	16285.9950	4904.2696	0.3739	0.1126
49	86.5500	0.9000	17119.0800	5321.7897	0.3930	0.1222
50	92.7400	7.0900	17119.0800	111288.8949	0.3930	2.5548

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| Variable storage data for node | AA-16
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	87.6000	0.0000	4.3560	0.0000	0.0001	0.0000
2	87.6250	0.0250	150.8265	1.5068	0.0035	0.0000
3	87.6500	0.0500	297.2970	7.0058	0.0068	0.0002
4	87.6750	0.0750	443.7675	16.2082	0.0102	0.0004
5	87.7000	0.1000	590.2380	29.0898	0.0135	0.0007
6	87.7250	0.1250	736.7085	45.6428	0.0169	0.0010
7	87.7500	0.1500	883.1790	65.8638	0.0203	0.0015
8	87.7750	0.1750	1029.6495	89.7507	0.0236	0.0021
9	87.8000	0.2000	1176.1200	117.3026	0.0270	0.0027
10	87.8250	0.2250	1475.5950	150.3783	0.0339	0.0035
11	87.8500	0.2500	1775.0700	190.9540	0.0408	0.0044
12	87.8750	0.2750	2074.5450	239.0256	0.0476	0.0055
13	87.9000	0.3000	2374.0200	294.5906	0.0545	0.0068
14	87.9250	0.3250	2673.4950	357.6475	0.0614	0.0082
15	87.9500	0.3500	2972.9700	428.1952	0.0683	0.0098
16	87.9750	0.3750	3272.4450	506.2330	0.0751	0.0116
17	88.0000	0.4000	3571.9200	591.7602	0.0820	0.0136
18	88.0125	0.4125	3773.3850	637.6626	0.0866	0.0146
19	88.0250	0.4250	3974.8500	686.0836	0.0912	0.0158
20	88.0375	0.4375	4176.3150	737.0232	0.0959	0.0169
21	88.0500	0.4500	4377.7800	790.4814	0.1005	0.0181
22	88.0625	0.4625	4579.2450	846.4581	0.1051	0.0194
23	88.0750	0.4750	4780.7100	904.9533	0.1098	0.0208
24	88.0875	0.4875	4982.1750	965.9670	0.1144	0.0222
25	88.1000	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	88.1125	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	88.1250	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	88.1375	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	88.1500	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	88.1625	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	88.1750	0.5750	6947.8200	1484.3840	0.1595	0.0341

32	88.1875	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	88.2000	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	88.2125	0.6125	7900.6950	1761.8875	0.1814	0.0404
35	88.2250	0.6250	8265.5100	1862.9177	0.1897	0.0428
36	88.2375	0.6375	8630.3250	1968.5084	0.1981	0.0452
37	88.2500	0.6500	8995.1400	2078.6597	0.2065	0.0477
38	88.2625	0.6625	9359.9550	2193.3715	0.2149	0.0504
39	88.2750	0.6750	9724.7700	2312.6438	0.2233	0.0531
40	88.2875	0.6875	10089.5850	2436.4765	0.2316	0.0559
41	88.3000	0.7000	10454.4000	2564.8697	0.2400	0.0589
42	88.3250	0.7250	11287.4850	2836.5767	0.2591	0.0651
43	88.3500	0.7500	12120.5700	3129.1156	0.2782	0.0718
44	88.3750	0.7750	12953.6550	3442.4857	0.2974	0.0790
45	88.4000	0.8000	13786.7400	3776.6866	0.3165	0.0867
46	88.4250	0.8250	14619.8250	4131.7177	0.3356	0.0949
47	88.4500	0.8500	15452.9100	4507.5788	0.3548	0.1035
48	88.4750	0.8750	16285.9950	4904.2696	0.3739	0.1126
49	88.5000	0.9000	17119.0800	5321.7897	0.3930	0.1222
50	93.1900	5.5900	17119.0800	85610.2749	0.3930	1.9653

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| Variable storage data for node | A-23OFF
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	89.4200	0.0000	43.5600	0.0000	0.0010	0.0000
2	89.8675	0.4475	3778.8300	630.6925	0.0868	0.0145
3	90.3150	0.8950	7514.1000	3110.0782	0.1725	0.0714
4	90.7625	1.3425	11249.3700	7280.3947	0.2583	0.1671
5	91.2100	1.7900	14984.6400	13130.3198	0.3440	0.3014
6	91.6575	2.2375	18719.9100	20656.2280	0.4297	0.4742
7	92.1050	2.6850	22455.1800	29856.4920	0.5155	0.6854
8	92.5525	3.1325	26190.4500	40730.2401	0.6013	0.9350
9	93.0000	3.5800	29925.7200	53276.9510	0.6870	1.2231
10	93.1250	3.7050	52606.3230	58369.0037	1.2077	1.3400
11	93.2500	3.8300	75286.9260	66320.0994	1.7284	1.5225
12	93.3750	3.9550	97967.5290	77117.4410	2.2490	1.7704
13	93.5000	4.0800	120648.1320	90756.3428	2.7697	2.0835
14	93.6250	4.2050	143328.7350	107234.5605	3.2904	2.4618
15	93.7500	4.3300	166009.3380	126550.8445	3.8111	2.9052
16	93.8750	4.4550	188689.9410	148704.4269	4.3317	3.4138
17	94.0000	4.5800	211370.5440	173694.8024	4.8524	3.9875

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| Variable storage data for node | A-24OFF
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	90.1000	0.0000	43.5600	0.0000	0.0010	0.0000
2	90.4625	0.3625	262.4490	49.8958	0.0060	0.0011
3	90.8250	0.7250	481.3380	182.7172	0.0111	0.0042
4	91.1875	1.0875	700.2270	395.6402	0.0161	0.0091
5	91.5500	1.4500	919.1160	688.2482	0.0211	0.0158
6	91.9125	1.8125	1138.0050	1060.3958	0.0261	0.0243
7	92.2750	2.1750	1356.8940	1512.0150	0.0311	0.0347
8	92.6375	2.5375	1575.7830	2043.0685	0.0362	0.0469
9	93.0000	2.9000	1794.6720	2653.5336	0.0412	0.0609
10	93.0625	2.9625	4036.9230	2831.1011	0.0927	0.0650
11	93.1250	3.0250	6279.1740	3150.9101	0.1442	0.0723
12	93.1875	3.0875	8521.4250	3611.6493	0.1956	0.0829
13	93.2500	3.1500	10763.6760	4212.9462	0.2471	0.0967
14	93.3125	3.2125	13005.9270	4954.6422	0.2986	0.1137
15	93.3750	3.2750	15248.1780	5836.6547	0.3501	0.1340
16	93.4375	3.3375	17490.4290	6858.9354	0.4015	0.1575
17	93.5000	3.4000	19732.6800	8021.4535	0.4530	0.1841
18	93.5625	3.4625	22433.4000	9338.2416	0.5150	0.2144
19	93.6250	3.5250	25134.1200	10823.9273	0.5770	0.2485
20	93.6875	3.5875	27834.8400	12478.4897	0.6390	0.2865
21	93.7500	3.6500	30535.5600	14301.9135	0.7010	0.3283
22	93.8125	3.7125	33236.2800	16294.1875	0.7630	0.3741
23	93.8750	3.7750	35937.0000	18455.3031	0.8250	0.4237
24	93.9375	3.8375	38637.7200	20785.2535	0.8870	0.4772
25	94.0000	3.9000	41338.4400	23284.0334	0.9490	0.5345

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| Variable storage data for node | POND6C
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	88.1000	0.0000	43.5600	0.0000	0.0010	0.0000
2	88.2125	0.1125	5918.7150	242.6263	0.1359	0.0056
3	88.3250	0.2250	11793.8700	1220.1574	0.2707	0.0280
4	88.4375	0.3375	17669.0250	2866.3505	0.4056	0.0658
5	88.5500	0.4500	23544.1800	5176.7011	0.5405	0.1188
6	88.6625	0.5625	29419.3350	8149.7700	0.6754	0.1871
7	88.7750	0.6750	35294.4900	11784.9118	0.8102	0.2705
8	88.8875	0.7875	41169.6450	16081.7811	0.9451	0.3692
9	89.0000	0.9000	47044.8000	21040.1712	1.0800	0.4830
10	89.1250	1.0250	47480.4000	26947.9753	1.0900	0.6186
11	89.2500	1.1500	47916.0000	32910.2296	1.1000	0.7555
12	89.3750	1.2750	48351.6000	38926.9341	1.1100	0.8936
13	89.5000	1.4000	48787.2000	44998.0887	1.1200	1.0330
14	89.6250	1.5250	49222.8000	51123.6935	1.1300	1.1736
15	89.7500	1.6500	49658.4000	57303.7486	1.1400	1.3155
16	89.8750	1.7750	50094.0000	63538.2537	1.1500	1.4586
17	90.0000	1.9000	50529.6000	69827.2091	1.1600	1.6030
18	90.1250	2.0250	51019.6500	76174.0126	1.1712	1.7487
19	90.2500	2.1500	51509.7000	82582.0726	1.1825	1.8958
20	90.3750	2.2750	51999.7500	89051.3890	1.1937	2.0443
21	90.5000	2.4000	52489.8000	95581.9620	1.2050	2.1943
22	90.6250	2.5250	52979.8500	102173.7914	1.2163	2.3456
23	90.7500	2.6500	53469.9000	108826.8772	1.2275	2.4983
24	90.8750	2.7750	53959.9500	115541.2196	1.2388	2.6525
25	91.0000	2.9000	54450.0000	122316.8184	1.2500	2.8080
26	91.1250	3.0250	54940.0500	129153.6736	1.2612	2.9650
27	91.2500	3.1500	55430.1000	136051.7853	1.2725	3.1233
28	91.3750	3.2750	55920.1500	143011.1535	1.2837	3.2831
29	91.5000	3.4000	56410.2000	150031.7781	1.2950	3.4443
30	91.6250	3.5250	56900.2500	157113.6592	1.3063	3.6068
31	91.7500	3.6500	57390.3000	164256.7966	1.3175	3.7708
32	91.8750	3.7750	57880.3500	171461.1906	1.3288	3.9362
33	92.0000	3.9000	58370.4000	178726.8409	1.3400	4.1030
34	92.1250	4.0250	58806.0000	186050.3491	1.3500	4.2711
35	92.2500	4.1500	59241.6000	193428.3073	1.3600	4.4405
36	92.3750	4.2750	59677.2000	200860.7157	1.3700	4.6111
37	92.5000	4.4000	60112.8000	208347.5742	1.3800	4.7830
38	92.6250	4.5250	60548.4000	215888.8828	1.3900	4.9561
39	92.7500	4.6500	60984.0000	223484.6415	1.4000	5.1305
40	92.8750	4.7750	61419.6000	231134.8504	1.4100	5.3061
41	93.0000	4.9000	61855.2000	238839.5094	1.4200	5.4830
42	93.1250	5.0250	62399.7000	246605.4158	1.4325	5.6613
43	93.2500	5.1500	62944.2000	254439.3849	1.4450	5.8411
44	93.3750	5.2750	63488.7000	262341.4167	1.4575	6.0225
45	93.5000	5.4000	64033.2000	270311.5112	1.4700	6.2055
46	93.6250	5.5250	64577.7000	278349.6685	1.4825	6.3900

47	93.7500	5.6500	65122.2000	286455.8884	1.4950	6.5761
48	93.8750	5.7750	65666.7000	294630.1710	1.5075	6.7638
49	94.0000	5.9000	66211.2000	302872.5164	1.5200	6.9530
50	94.1250	6.0250	66701.2500	311179.5257	1.5312	7.1437
51	94.2500	6.1500	67191.3000	319547.7914	1.5425	7.3358
52	94.3750	6.2750	67681.3500	327977.3134	1.5537	7.5293
53	94.5000	6.4000	68171.4000	336468.0919	1.5650	7.7242
54	94.6250	6.5250	68661.4500	345020.1267	1.5763	7.9206
55	94.7500	6.6500	69151.5000	353633.4180	1.5875	8.1183
56	94.8750	6.7750	69641.5500	362307.9656	1.5987	8.3174
57	95.0000	6.9000	70131.6000	371043.7695	1.6100	8.5180
58	95.1875	7.0875	70131.6000	384193.4445	1.6100	8.8199
59	95.3750	7.2750	70131.6000	397343.1195	1.6100	9.1217
60	95.5625	7.4625	70131.6000	410492.7945	1.6100	9.4236
61	95.7500	7.6500	70131.6000	423642.4695	1.6100	9.7255
62	95.9375	7.8375	70131.6000	436792.1445	1.6100	10.0274
63	96.1250	8.0250	70131.6000	449941.8195	1.6100	10.3292
64	96.3125	8.2125	70131.6000	463091.4945	1.6100	10.6311
65	96.5000	8.4000	70131.6000	476241.1695	1.6100	10.9330
66	96.5000	8.4000	70131.6000	476241.1695	1.6100	10.9330

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| Variable storage data for node | POND6D
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	88.2330	0.0000	43.5600	0.0000	0.0010	0.0000
2	88.3293	0.0963	3250.6650	117.7626	0.0746	0.0027
3	88.4255	0.1925	6457.7700	576.2380	0.1482	0.0132
4	88.5217	0.2888	9664.8750	1346.9717	0.2219	0.0309
5	88.6180	0.3850	12871.9800	2427.8785	0.2955	0.0557
6	88.7143	0.4813	16079.0850	3818.2901	0.3691	0.0877
7	88.8105	0.5775	19286.1900	5517.9064	0.4427	0.1267
8	88.9068	0.6738	22493.2950	7526.5666	0.5164	0.1728
9	89.0030	0.7700	25700.4000	9844.1745	0.5900	0.2260
10	89.1280	0.8950	26027.1000	13077.1217	0.5975	0.3002
11	89.2530	1.0200	26353.8000	16350.9068	0.6050	0.3754
12	89.3780	1.1450	26680.5000	19665.5295	0.6125	0.4515
13	89.5030	1.2700	27007.2000	23020.9901	0.6200	0.5285
14	89.6280	1.3950	27333.9000	26417.2884	0.6275	0.6065
15	89.7530	1.5200	27660.6000	29854.4244	0.6350	0.6854
16	89.8780	1.6450	27987.3000	33332.3982	0.6425	0.7652
17	90.0030	1.7700	28314.0000	36851.2097	0.6500	0.8460
18	90.1280	1.8950	28695.1500	40414.2550	0.6588	0.9278
19	90.2530	2.0200	29076.3000	44024.9444	0.6675	1.0107
20	90.3780	2.1450	29457.4500	47683.2780	0.6763	1.0947
21	90.5030	2.2700	29838.6000	51389.2556	0.6850	1.1797
22	90.6280	2.3950	30219.7500	55142.8772	0.6937	1.2659
23	90.7530	2.5200	30600.9000	58944.1430	0.7025	1.3532
24	90.8780	2.6450	30982.0500	62793.0528	0.7112	1.4415
25	91.0030	2.7700	31363.2000	66689.6066	0.7200	1.5310
26	91.1280	2.8950	31744.3500	70633.8045	0.7288	1.6215
27	91.2530	3.0200	32125.5000	74625.6465	0.7375	1.7132
28	91.3780	3.1450	32506.6500	78665.1324	0.7462	1.8059
29	91.5030	3.2700	32887.8000	82752.2624	0.7550	1.8997
30	91.6280	3.3950	33268.9500	86887.0364	0.7638	1.9947
31	91.7530	3.5200	33650.1000	91069.4544	0.7725	2.0907
32	91.8780	3.6450	34031.2500	95299.5164	0.7812	2.1878
33	92.0030	3.7700	34412.4000	99577.2225	0.7900	2.2860
34	92.1280	3.8950	34793.5500	103902.5725	0.7988	2.3853
35	92.2530	4.0200	35174.7000	108275.5665	0.8075	2.4857
36	92.3780	4.1450	35555.8500	112696.2044	0.8162	2.5871
37	92.5030	4.2700	35937.0000	117164.4864	0.8250	2.6897
38	92.6280	4.3950	36318.1500	121680.4123	0.8337	2.7934
39	92.7530	4.5200	36699.3000	126243.9822	0.8425	2.8982
40	92.8780	4.6450	37080.4500	130855.1961	0.8512	3.0040
41	93.0030	4.7700	37461.6000	135514.0539	0.8600	3.1110
42	93.1280	4.8950	37842.7500	140220.5557	0.8687	3.2190
43	93.2530	5.0200	38223.9000	144974.7014	0.8775	3.3282
44	93.3780	5.1450	38605.0500	149776.4911	0.8862	3.4384
45	93.5030	5.2700	38986.2000	154625.9247	0.8950	3.5497
46	93.6280	5.3950	39367.3500	159523.0023	0.9038	3.6621
47	93.7530	5.5200	39748.5000	164467.7238	0.9125	3.7757
48	93.8780	5.6450	40129.6500	169460.0892	0.9213	3.8903
49	94.0030	5.7700	40510.8000	174500.0986	0.9300	4.0060
50	94.1280	5.8950	40946.4000	179591.1493	0.9400	4.1228
51	94.2530	6.0200	41382.0000	184736.6503	0.9500	4.2410
52	94.3780	6.1450	41817.6000	189936.6015	0.9600	4.3603
53	94.5030	6.2700	42253.2000	195191.0030	0.9700	4.4810
54	94.6280	6.3950	42688.8000	200499.8548	0.9800	4.6028
55	94.7530	6.5200	43124.4000	205863.1567	0.9900	4.7260
56	94.8780	6.6450	43560.0000	211280.9089	1.0000	4.8503
57	95.0030	6.7700	43995.6000	216753.1114	1.0100	4.9760
58	95.1568	6.9238	43995.6000	223517.4349	1.0100	5.1313
59	95.3105	7.0775	43995.6000	230281.7584	1.0100	5.2865
60	95.4643	7.2312	43995.6000	237046.0819	1.0100	5.4418
61	95.6180	7.3850	43995.6000	243810.4054	1.0100	5.5971
62	95.7717	7.5388	43995.6000	250574.7289	1.0100	5.7524
63	95.9255	7.6925	43995.6000	257339.0524	1.0100	5.9077
64	96.0793	7.8462	43995.6000	264103.3759	1.0100	6.0630
65	96.2330	8.0000	43995.6000	270867.6994	1.0100	6.2183
66	96.5000	8.2670	43995.6000	282614.5246	1.0100	6.4879

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| Variable storage data for node | POND5C
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	84.9640	0.0000	43.5600	0.0000	0.0010	0.0000
2	85.0302	0.0663	1236.0150	33.3814	0.0284	0.0008
3	85.0965	0.1325	2428.4700	152.5653	0.0558	0.0035
4	85.1628	0.1988	3620.9250	351.6409	0.0831	0.0081
5	85.2290	0.2650	4813.3800	630.0918	0.1105	0.0145
6	85.2952	0.3313	6005.8350	987.7505	0.1379	0.0227
7	85.3615	0.3975	7198.2900	1424.5414	0.1652	0.0327
8	85.4278	0.4637	8390.7450	1940.4238	0.1926	0.0445
9	85.4940	0.5300	9583.2000	2535.3735	0.2200	0.0582
10	85.6190	0.6550	9855.4500	3750.2494	0.2263	0.0861
11	85.7440	0.7800	10127.7000	4999.1577	0.2325	0.1148
12	85.8690	0.9050	10399.9500	6282.0982	0.2388	0.1442
13	85.9940	1.0300	10672.2000	7599.0709	0.2450	0.1745
14	86.1190	1.1550	10944.4500	8950.0758	0.2513	0.2055
15	86.2440	1.2800	11216.7000	10335.1129	0.2575	0.2373
16	86.3690	1.4050	11488.9500	11754.1820	0.2638	0.2698
17	86.4940	1.5300	11761.2000	13207.2831	0.2700	0.3032
18	86.6190	1.6550	12087.9000	14697.8053	0.2775	0.3374
19	86.7440	1.7800	12414.6000	16229.1661	0.2850	0.3726
20	86.8690	1.9050	12741.3000	17801.3657	0.2925	0.4087
21	86.9940	2.0300	13068.0000	19414.4039	0.3000	0.4457
22	87.1190	2.1550	13394.7000	21068.2806	0.3075	0.4837
23	87.2440	2.2800	13721.4000	22762.9959	0.3150	0.5226
24	87.3690	2.4050	14048.1000	24498.5496	0.3225	0.5624
25	87.4940	2.5300	14374.8000	26274.9417	0.3300	0.6032
26	87.6190	2.6550	14647.0500	28088.7807	0.3362	0.6448
27	87.7440	2.7800	14919.3000	29936.6515	0.3425	0.6873
28	87.8690	2.9050	15191.5500	31818.5540	0.3488	0.7305

29	87.9940	3.0300	15463.8000	33734.4881	0.3550	0.7744
30	88.1190	3.1550	15736.0500	35684.4540	0.3613	0.8192
31	88.2440	3.2800	16008.3000	37668.4516	0.3675	0.8647
32	88.3690	3.4050	16280.5500	39686.4808	0.3738	0.9111
33	88.4940	3.5300	16552.8000	41738.5417	0.3800	0.9582
34	88.6190	3.6550	16933.9500	43831.4183	0.3887	1.0062
35	88.7440	3.7800	17315.1000	45971.9398	0.3975	1.0554
36	88.8690	3.9050	17696.2500	48160.1059	0.4062	1.1056
37	88.9940	4.0300	18077.4000	50395.9167	0.4150	1.1569
38	89.1190	4.1550	18458.5500	52679.3722	0.4237	1.2094
39	89.2440	4.2800	18839.7000	55010.4723	0.4325	1.2629
40	89.3690	4.4050	19220.8500	57389.2169	0.4413	1.3175
41	89.4940	4.5300	19602.0000	59815.6060	0.4500	1.3732
42	89.6190	4.6550	19928.7000	62286.2466	0.4575	1.4299
43	89.7440	4.7800	20255.4000	64797.7252	0.4650	1.4876
44	89.8690	4.9050	20582.1000	67350.0417	0.4725	1.5461
45	89.9940	5.0300	20908.8000	69943.1962	0.4800	1.6057
46	90.1190	5.1550	21235.5000	72577.1886	0.4875	1.6661
47	90.2440	5.2800	21562.2000	75252.0188	0.4950	1.7275
48	90.3690	5.4050	21888.9000	77967.6870	0.5025	1.7899
49	90.4940	5.5300	22215.6000	80724.1930	0.5100	1.8532
50	90.6190	5.6550	22651.2000	83528.3240	0.5200	1.9175
51	90.7440	5.7800	23086.8000	86386.9058	0.5300	1.9832
52	90.8690	5.9050	23522.4000	89299.9384	0.5400	2.0500
53	90.9940	6.0300	23958.0000	92267.4217	0.5500	2.1182
54	91.1190	6.1550	24393.6000	95289.3559	0.5600	2.1875
55	91.2440	6.2800	24829.2000	98365.7407	0.5700	2.2582
56	91.3690	6.4050	25264.8000	101496.5762	0.5800	2.3300
57	91.4940	6.5300	25700.4000	104681.8625	0.5900	2.4032
58	91.6190	6.6550	26081.5500	107918.2051	0.5988	2.4775
59	91.7440	6.7800	26462.7000	111202.1919	0.6075	2.5529
60	91.8690	6.9050	26843.8500	114533.8229	0.6162	2.6293
61	91.9940	7.0300	27225.0000	117913.0981	0.6250	2.7069
62	92.1190	7.1550	27606.1500	121340.0173	0.6338	2.7856
63	92.2440	7.2800	27987.3000	124814.5807	0.6425	2.8653
64	92.3690	7.4050	28368.4500	128336.7883	0.6512	2.9462
65	92.4940	7.5300	28749.6000	131906.6399	0.6600	3.0282
66	92.6190	7.6550	29185.2000	135527.5308	0.6700	3.1113
67	92.7440	7.7800	29620.8000	139202.8722	0.6800	3.1957
68	92.8690	7.9050	30056.4000	142932.6640	0.6900	3.2813
69	92.9940	8.0300	30492.0000	146716.9064	0.7000	3.3682
70	93.1190	8.1550	30927.6000	150555.5992	0.7100	3.4563
71	93.2440	8.2800	31363.2000	154448.7425	0.7200	3.5457
72	93.3690	8.4050	31798.8000	158396.3362	0.7300	3.6363
73	93.4940	8.5300	32234.4000	162398.3803	0.7400	3.7282
74	93.6565	8.6925	32234.4000	167636.4703	0.7400	3.8484
75	93.8190	8.8550	32234.4000	172874.5603	0.7400	3.9687
76	93.9815	9.0175	32234.4000	178112.6503	0.7400	4.0889
77	94.1440	9.1800	32234.4000	183350.7403	0.7400	4.2092
78	94.3065	9.3425	32234.4000	188588.8303	0.7400	4.3294
79	94.4690	9.5050	32234.4000	193826.9203	0.7400	4.4497
80	94.6315	9.6675	32234.4000	199065.0103	0.7400	4.5699
81	94.7940	9.8300	32234.4000	204303.1003	0.7400	4.6902
82	94.8000	9.8360	32234.4000	204496.5067	0.7400	4.6946

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| Variable storage data for node | POND6E
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	89.4200	0.0000	43.5600	0.0000	0.0010	0.0000
2	89.4925	0.0725	26936.4150	678.1937	0.6184	0.0156
3	89.5650	0.1450	53829.2700	3550.2601	1.2358	0.0815
4	89.6375	0.2175	80722.1250	8394.9427	1.8531	0.1927
5	89.7100	0.2900	107614.9800	15198.8429	2.4705	0.3489
6	89.7825	0.3625	134507.8350	23957.6923	3.0879	0.5500
7	89.8550	0.4350	161400.6900	34669.5794	3.7052	0.7959
8	89.9275	0.5075	188293.5450	47333.4817	4.3226	1.0866
9	90.0000	0.5800	215186.4000	61948.7882	4.9400	1.4221
10	90.1250	0.7050	216112.0500	88904.9206	4.9613	2.0410
11	90.2500	0.8300	217037.7000	115976.7594	4.9825	2.6625
12	90.3750	0.9550	217963.3500	143164.3045	5.0038	3.2866
13	90.5000	1.0800	218889.0000	170467.5559	5.0250	3.9134
14	90.6250	1.2050	219814.6500	197886.5137	5.0463	4.5428
15	90.7500	1.3300	220740.3000	225421.1778	5.0675	5.1750
16	90.8750	1.4550	221665.9500	253071.5483	5.0888	5.8097
17	91.0000	1.5800	222591.6000	280837.6251	5.1100	6.4471
18	91.1250	1.7050	223571.7000	308722.8089	5.1325	7.0873
19	91.2500	1.8300	224551.8000	336730.5053	5.1550	7.7303
20	91.3750	1.9550	225531.9000	364860.7143	5.1775	8.3760
21	91.5000	2.0800	226512.0000	393113.4359	5.2000	9.0246
22	91.6250	2.2050	227492.1000	421488.6701	5.2225	9.6760
23	91.7500	2.3300	228472.2000	449986.4169	5.2450	10.3303
24	91.8750	2.4550	229452.3000	478606.6763	5.2675	10.9873
25	92.0000	2.5800	230432.4000	507349.4483	5.2900	11.6471
26	92.1250	2.7050	231412.5000	536214.7329	5.3125	12.3098
27	92.2500	2.8300	232392.6000	565202.5301	5.3350	12.9753
28	92.3750	2.9550	233372.7000	594312.8399	5.3575	13.6435
29	92.5000	3.0800	234352.8000	623545.6622	5.3800	14.3146
30	92.6250	3.2050	235332.9000	652900.9972	5.4025	14.9885
31	92.7500	3.3300	236313.0000	682378.8447	5.4250	15.6653
32	92.8750	3.4550	237293.1000	711979.2048	5.4475	16.3448
33	93.0000	3.5800	238273.2000	741702.0775	5.4700	17.0271
34	93.1250	3.7050	239253.3000	771547.4628	5.4925	17.7123
35	93.2500	3.8300	240233.4000	801515.3607	5.5150	18.4003
36	93.3750	3.9550	241213.5000	831605.7712	5.5375	19.0910
37	93.5000	4.0800	242193.6000	861818.6942	5.5600	19.7846
38	93.6250	4.2050	243173.7000	892154.1299	5.5825	20.4810
39	93.7500	4.3300	244153.8000	922612.0781	5.6050	21.1803
40	93.8750	4.4550	245133.9000	953192.5389	5.6275	21.8823
41	94.0000	4.5800	246114.0000	983895.5123	5.6500	22.5871
42	94.1250	4.7050	247094.1000	1.014721E+06	5.6725	23.2948
43	94.2500	4.8300	248074.2000	1.045669E+06	5.6950	24.0053
44	94.3750	4.9550	249054.3000	1.076740E+06	5.7175	24.7185
45	94.5000	5.0800	250034.4000	1.107933E+06	5.7400	25.4346
46	94.6250	5.2050	251014.5000	1.139248E+06	5.7625	26.1535
47	94.7500	5.3300	251994.6000	1.170686E+06	5.7850	26.8753
48	94.8750	5.4550	252974.7000	1.202247E+06	5.8075	27.5998
49	95.0000	5.5800	253954.8000	1.233930E+06	5.8300	28.3271
50	95.1250	5.7050	254989.3500	1.265739E+06	5.8537	29.0574
51	95.2500	5.8300	256023.9000	1.297677E+06	5.8775	29.7906
52	95.3750	5.9550	257058.4500	1.329745E+06	5.9013	30.5267
53	95.5000	6.0800	258093.0000	1.361942E+06	5.9250	31.2659
54	95.6250	6.2050	259127.5500	1.394268E+06	5.9487	32.0080
55	95.7500	6.3300	260162.1000	1.426723E+06	5.9725	32.7531
56	95.8750	6.4550	261196.6500	1.459308E+06	5.9962	33.5011
57	96.0000	6.5800	262231.2000	1.492023E+06	6.0200	34.2521
58	96.1250	6.7050	263265.7500	1.524866E+06	6.0437	35.0061
59	96.2500	6.8300	264300.3000	1.557839E+06	6.0675	35.7631
60	96.3750	6.9550	265334.8500	1.590941E+06	6.0912	36.5230
61	96.5000	7.0800	266369.4000	1.624173E+06	6.1150	37.2859
62	96.6250	7.2050	267403.9500	1.657533E+06	6.1387	38.0517
63	96.7500	7.3300	268438.5000	1.691024E+06	6.1625	38.8206
64	96.8750	7.4550	269473.0500	1.724643E+06	6.1862	39.5924
65	97.0000	7.5800	270507.6000	1.758392E+06	6.2100	40.3671
66	97.1250	7.7050	271596.6000	1.792273E+06	6.2350	41.1449
67	97.2500	7.8300	272685.6000	1.826291E+06	6.2600	41.9259

68	97.3750	7.9550	273774.6000	1.860445E+06	6.2850	42.7099
69	97.5000	8.0800	274863.6000	1.894735E+06	6.3100	43.4971
70	97.6250	8.2050	275952.6000	1.929161E+06	6.3350	44.2874
71	97.7500	8.3300	277041.6000	1.963723E+06	6.3600	45.0809
72	97.8750	8.4550	278130.6000	1.998421E+06	6.3850	45.8774
73	98.0000	8.5800	279219.6000	2.033255E+06	6.4100	46.6771

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| FREE OUTFALL DATA (DATA GROUP I1) |
| BOUNDARY CONDITION ON DATA GROUP J1 |
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Outfall at Junction....E117-OUT has boundary condition number... 1

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| INTERNAL CONNECTIVITY INFORMATION |
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CONDUIT	JUNCTION	JUNCTION
FREE # 1	E117-OUT	BOUNDARY

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| Boundary Condition Information |
| Data Groups J1-J4 |
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| XP Note Field Summary |
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| Table E9 - JUNCTION SUMMARY STATISTICS |
| The Maximum area is only the area of the node, it |
| does not include the area of the surrounding conduits|
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Junction Name	Ground Elevation feet	Uppermost PipeCrown Elevation feet	Maximum Junction Elevation feet	Time of Occurence Hr.	Min.	Feet of Surcharge at Max Elevation	Freeboard of node feet	Maximum Junction Area ft^2	Maximum Gutter Depth feet	Maximum Gutter Width feet	Maximum Gutter Velocity ft/s
A-OUT1	114.0000	104.9600	94.1857	19	17	0.0000	19.8143	12.5660	0.0000	0.0000	0.0000
A-43	93.1600	88.2780	94.1938	19	17	5.9158	0.0000	14058.075	0.0000	0.0000	0.0000
A-42	93.3800	88.6590	94.2040	16	42	5.5450	0.0000	11398.083	0.0000	0.0000	0.0000
A-41	93.8200	88.9720	94.2789	16	39	5.3069	0.0000	7911.2861	0.0000	0.0000	0.0000
A-40	94.3400	89.3470	94.3689	16	37	5.0219	0.0000	5146.4685	0.0000	0.0000	0.0000
A-39	94.8700	89.7220	94.4565	16	36	4.7345	0.4135	12.5660	0.0000	0.0000	0.0000
A-38	95.4800	90.1580	94.5505	16	36	4.3925	0.9295	12.5660	0.0000	0.0000	0.0000
A-37	96.0000	90.5320	94.6159	16	35	4.0839	1.3841	12.5660	0.0000	0.0000	0.0000
A-36	96.5300	90.9090	94.6752	16	35	3.7662	1.8548	12.5660	0.0000	0.0000	0.0000
A-35	96.5300	91.6570	94.7814	16	35	3.1244	1.7486	12.5660	0.0000	0.0000	0.0000
A-34	96.0100	92.0330	94.7812	16	35	2.7482	1.2288	12.5660	0.0000	0.0000	0.0000
A-35OFF	94.0000	91.7780	95.1235	16	35	3.3455	0.0000	2792.1385	0.0000	0.0000	0.0000
A-32	97.0100	92.5370	94.7646	16	34	2.2276	2.2454	12.5660	0.0000	0.0000	0.0000
A-31	97.6200	92.8430	94.7520	16	34	1.9090	2.8680	12.5660	0.0000	0.0000	0.0000
A-30	98.5600	93.3090	94.7271	16	34	1.4181	3.8329	0.0000	0.0000	0.0000	0.0000
A-29	98.4800	93.9050	95.6379	16	30	1.7329	2.8421	12.5660	0.0000	0.0000	0.0000
A-28	97.9600	94.2820	96.1701	16	30	1.8881	1.7899	12.5660	0.0000	0.0000	0.0000
A-27	97.6100	94.5340	96.4774	16	30	1.9434	1.1326	12.5660	0.0000	0.0000	0.0000
A-26	98.2300	94.8450	96.9771	16	30	2.1321	1.2529	12.5660	0.0000	0.0000	0.0000
A-27OFF	97.6100	94.5720	96.4875	16	30	1.9155	1.1225	12.5660	0.0000	0.0000	0.0000
A-25	99.1000	95.2840	97.5186	16	30	2.2346	1.5814	12.5660	0.0000	0.0000	0.0000
A-44	99.8500	95.6590	98.3231	16	30	2.6641	1.5269	12.5660	0.0000	0.0000	0.0000
A-OUT2	113.9300	113.9300	94.1455	19	15	0.0000	19.7845	12.5660	0.0000	0.0000	0.0000
A-24	92.8500	91.0400	94.2434	18	12	3.2034	0.0000	20141.757	0.0000	0.0000	0.0000
A-23	93.1600	88.7040	94.2985	18	12	5.5945	0.0000	15610.548	0.0000	0.0000	0.0000
A-22	93.1600	88.8900	94.3464	18	11	5.4564	0.0000	17119.080	0.0000	0.0000	0.0000
A-23B	92.4700	90.4400	94.3024	18	12	3.8624	0.0000	5793.9113	0.0000	0.0000	0.0000
A-21	93.1600	89.2020	94.4527	18	11	5.2507	0.0000	18212.288	0.0000	0.0000	0.0000
A-20	93.1600	89.4430	94.5342	18	11	5.0912	0.0000	19760.069	0.0000	0.0000	0.0000
A-19	93.5600	89.7020	94.6566	18	11	4.9546	0.0000	14969.601	0.0000	0.0000	0.0000
A-18	94.2400	90.0870	94.8440	17	35	4.7570	0.0000	9146.9848	0.0000	0.0000	0.0000
A-17	94.8600	90.4410	95.0279	17	35	4.5869	0.0000	5926.4454	0.0000	0.0000	0.0000
A-15	94.9400	91.0900	95.5205	17	43	4.4305	0.0000	8934.2382	0.0000	0.0000	0.0000
A-17OFF	94.8600	90.4710	95.0552	19	33	4.5842	0.0000	6076.6006	0.0000	0.0000	0.0000
A-14	94.4200	91.3900	95.7488	17	45	4.3588	0.0000	17119.080	0.0000	0.0000	0.0000
A-13	94.8200	91.5910	95.8999	17	45	4.3089	0.0000	36590.400	0.0000	0.0000	0.0000
A-12	95.6400	92.0020	96.1985	17	54	4.1965	0.0000	8740.2501	0.0000	0.0000	0.0000
A-9	96.6900	92.5270	96.9915	18	37	4.4645	0.0000	7043.4991	0.0000	0.0000	0.0000
A-8	97.6100	93.4160	97.1299	17	36	3.7139	0.4801	123231.24	0.0000	0.0000	0.0000
A-7	98.1400	93.6820	97.4040	17	26	3.7220	0.7360	12.5660	0.0000	0.0000	0.0000
A-6	98.8400	94.0320	97.8309	17	16	3.7989	1.0091	12.5660	0.0000	0.0000	0.0000
A-5	99.5400	95.5660	98.3015	17	7	2.7355	1.2385	12.5660	0.0000	0.0000	0.0000
A-4	100.2400	97.2000	98.3335	17	6	1.1335	1.9065	12.5660	0.0000	0.0000	0.0000
A-5OFF	97.7700	92.9000	99.5575	17	1	6.6575	0.0000	29872.617	0.0000	0.0000	0.0000
A-3	101.0400	97.5980	98.3855	17	3	0.7875	2.6545	12.5660	0.0000	0.0000	0.0000
A-2	101.4300	97.7950	98.4690	16	30	0.6740	2.9610	12.5660	0.0000	0.0000	0.0000
A-50	93.1600	89.1100	94.1815	19	19	5.0715	0.0000	17119.080	0.0000	0.0000	0.0000
A-51	93.1300	89.5140	94.1898	19	21	4.6758	0.0000	14429.294	0.0000	0.0000	0.0000
AA-OUT1	114.2400	114.2400	94.0922	19	15	0.0000	20.1478	12.5660	0.0000	0.0000	0.0000
MH-AA2	93.0100	87.8220	94.0691	19	16	6.2471	0.0000	12.5660	0.0000	0.0000	0.0000
AA-2	93.0300	87.9000	94.0761	19	18	6.1761	0.0000	17119.080	0.0000	0.0000	0.0000
AA-3	92.9700	87.8500	94.0728	19	19	6.2228	0.0000	17119.080	0.0000	0.0000	0.0000
MH-AA1	92.9800	88.0500	94.0737	19	22	6.0237	0.0000	12.5660	0.0000	0.0000	0.0000
AA-1	93.0800	88.0100	94.0854	19	20	6.0754	0.0000	13665.153	0.0000	0.0000	0.0000
AA-4	92.9600	87.9440	94.0749	19	19	6.1309	0.0000	15245.959	0.0000	0.0000	0.0000
AA-10	92.9500	88.2000	94.0761	19	22	5.8761	0.0000	17119.080	0.0000	0.0000	0.0000
AA-55	93.0000	88.2500	94.0791	19	22	5.8291	0.0000	17119.080	0.0000	0.0000	0.0000
GES-1	93.5000	85.8700	97.4508	17	47	11.5808	0.0000	259886.07	0.0000	0.0000	0.0000
AA-5	92.9300	88.0770	94.0787	19	20	6.0017	0.0000	15769.858	0.0000	0.0000	0.0000
AA-11	92.9300	88.3500	94.0790	19	24	5.7290	0.0000	15775.374	0.0000	0.0000	0.0000
AA-54	93.0300	88.5480	94.0877	19	22	5.5397	0.0000	14398.406	0.0000	0.0000	0.0000
AA-6	92.8900	88.2010	94.0815	19	21	5.8805	0.0000	16460.183	0.0000	0.0000	0.0000
AA-12	92.8700	89.5000	94.0815	19	25	4.5815	0.0000	16792.285	0.0000	0.0000	0.0000
AA-7	92.7600	88.5440	94.0820	19	27	5.5380	0.0000	18754.547	0.0000	0.0000	0.0000
AA-13	93.4900	89.6500	94.0814	19	26	4.4314	0.0000	9032.1804	0.0000	0.0000	0.0000
AA-8	92.7400	88.6500	94.0869	19	28	5.4369	0.0000	17119.080	0.0000	0.0000	0.0000
AA-14	93.8900	89.9000	94.0836	19	29	4.1836	0.0000	6068.2515	0.0000	0.0000	0.0000
AA-9	92.8500	88.7940	94.0961	19	31	5.3021	0.0000	17383.877	0.0000	0.0000	0.0000
AA-15	93.4500	90.0250	94.0905	17	8	4.0655	0.0000	9487.0009	0.0000	0.0000	0.0000
AA-16	93.1900	90.1000	94.0995	17	8	3.9995	0.0000	17119.080	0.0000	0.0000	0.0000
AA-17	93.4500	90.1760	94.1026	17	8	3.9266	0.0000	9602.2892	0.0000	0.0000	0.0000
AA-18	93.8900	90.3010	94.1056	17	8	3.8046	0.0000	6202.9891	0.0000	0.0000	0.0000
MH-A1	114.0800	114.0800	94.1552	19	16	0.0000	19.9248	12.5660	0.0000	0.0000	0.0000
MH-A3	114.0000	113.8400	94.1794	19	17	0.0000	19.8206	12.5660	0.0000	0.0000	0.0000
A-23OFF	94.0000	90.9200	97.2960	20	33	6.3760	0.0000	211370.54	0.0000	0.0000	0.0000
A-24OFF	93.5000	91.6000	94.2748	18	20	2.6748	0.0000	41338.440	0.0000	0.0000	0.0000
E117-OUT	114.1200	114.1200	94.0900	19	14	0.0000	20.0300	12.5660	0.0000	0.0000	0.0000
POND6C	96.5000	91.1000	96.1993	17	49	5.0993	0.3007	70131.600	0.0000	0.0000	0.0000
POND6D	96.5000	91.2330	94.8614	16	39	3.6284	1.6386	43502.192	0.0000	0.0000	0.0000
POND5C	94.8000	87.9640	94.3464	18	8	6.3824	0.4536	32234.400	0.0000	0.0000	0.0000
POND6E	98.0000	93.4200	94.2431	18	42	0.8231	3.7569	248020.03	0.0000	0.0000	0.0000

GES-2	93.5000	85.4000	96.4512	18	26	11.0512	0.0000	95646.248	0.0000	0.0000	0.0000
GES-3	93.0000	84.9100	95.5537	18	38	10.6437	0.0000	64274.554	0.0000	0.0000	0.0000
GES-4	90.8000	83.9700	94.2847	19	21	10.3147	0.0000	163057.83	0.0000	0.0000	0.0000
MH-A2	113.9300	113.9300	94.1560	19	16	0.0000	19.7740	12.5660	0.0000	0.0000	0.0000
MH-A4	104.9600	104.9600	94.1823	19	17	0.0000	10.7777	12.5660	0.0000	0.0000	0.0000

Table E10 - CONDUIT SUMMARY STATISTICS

Note: The peak flow may be less than the design flow and the conduit may still surcharge because of the downstream boundary conditions.

* denotes an open conduit that has been overtopped this is a potential source of severe errors

Conduit Name	Design Flow (cfs)	Conduit Design Velocity (ft/s)	Maximum Vertical Depth (in)	Maximum Computed Flow (cfs)	Time of Occurence Hr.	Time of Occurence Min.	Maximum Computed Velocity (ft/s)	Time of Occurence Hr.	Time of Occurence Min.	Ratio of Max. to Design Flow	Maximum Water Elev at Pipe Ends Upstream (ft)	Maximum Water Elev at Pipe Ends Dwnstrm (ft)	Ratio d/D US	Ratio d/D DS
L_L-A-43	165.8432	6.6337	60.0000	105.4768	16	9	4.1985	16	9	0.6360	94.1938	94.1857	2.183	2.237
L_L-A-42	165.7969	6.6319	60.0000	96.9921	16	10	3.8610	16	10	0.5850	94.2040	94.1938	2.109	2.183
L_L-A-41	165.9355	6.6374	60.0000	97.2168	16	15	3.8698	16	15	0.5859	94.2789	94.2040	2.061	2.109
L_L-A-40	165.8062	6.6322	60.0000	91.6434	16	15	3.6488	16	15	0.5527	94.3689	94.2789	2.004	2.061
L_L-A-39	165.7996	6.6320	60.0000	86.0308	16	15	3.5312	31	39	0.5189	94.4564	94.3689	1.947	2.004
L_L-A-38	165.7521	6.6301	60.0000	80.4648	16	30	3.6899	31	14	0.4855	94.5505	94.4565	1.879	1.947
L_L-A-37	165.7226	6.6289	60.0000	72.0298	16	30	3.8669	30	49	0.4346	94.6159	94.5505	1.817	1.879
L_L-A-36	165.8315	6.6333	60.0000	67.8918	16	30	3.9995	30	30	0.4094	94.6751	94.6159	1.753	1.817
L_L-A-35	165.7525	6.6301	60.0000	63.8640	16	34	4.1286	30	10	0.3853	94.7814	94.6752	1.625	1.753
L_L-A-34	122.6752	6.1338	48.0000	61.9240	26	21	5.3910	28	24	0.5048	94.7812	94.7814	1.687	1.781
L-A-35OFF	33.3768	4.7218	36.0000	58.2949	16	27	8.1927	16	27	1.7466	95.1235	94.7814	2.115	2.041
L_L-A-32	122.6257	6.1313	48.0000	-51.5150	17	14	4.5333	29	32	-0.4201	94.7647	94.7812	1.557	1.687
L_L-A-31	122.7036	6.1352	48.0000	-53.7419	17	13	4.6755	28	7	-0.4380	94.7520	94.7646	1.477	1.557
L_L-A-30	122.6159	6.1308	48.0000	-56.2547	17	7	4.8256	27	47	-0.4588	94.7271	94.7520	1.355	1.477
L_L-A-29	71.8182	5.7151	48.0000	92.6805	16	15	7.3564	16	15	1.2905	95.6379	94.7271	1.433	1.355
L_L-A-28	71.8536	5.7179	48.0000	86.2799	16	15	6.8498	16	15	1.2008	96.1701	95.6379	1.472	1.433
L_L-A-27	71.8791	5.7200	48.0000	79.6125	16	30	6.3161	16	30	1.1076	96.4774	96.1701	1.486	1.472
L_L-A-26	50.3405	5.2323	42.0000	63.9648	16	30	6.6237	16	30	1.2706	96.9771	96.4774	1.609	1.555
L-A-27OFF	11.3826	3.6232	24.0000	6.8792	16	15	4.1202	15	53	0.6044	96.4875	96.4774	1.958	1.972
L_L-A-25	50.3196	5.2301	42.0000	56.0122	16	30	5.7987	16	30	1.1131	97.5186	96.9771	1.638	1.609
L_L-A-44	33.3308	4.7153	36.0000	48.9914	16	30	6.8947	16	30	1.4699	98.3231	97.5186	1.888	1.745
L_L-A-24	341.7127	7.5936	60.0000	187.7477	17	42	4.1486	17	42	0.5494	94.2434	94.1455	2.152	2.169
L_L-A-23	341.9669	7.5993	60.0000	185.5464	17	41	4.1003	17	41	0.5426	94.2985	94.2434	2.119	2.152
L_L-A-22	315.7821	7.0174	60.0000	174.3725	17	40	3.8539	17	40	0.5522	94.3464	94.2985	2.091	2.119
L-A-23B	36.9359	5.2254	36.0000	17.1521	26	48	5.5658	29	34	0.4644	94.3024	94.2985	2.851	2.865
L_L-A-21	272.3621	6.8091	60.0000	175.5849	16	5	4.3724	16	5	0.6447	94.4527	94.3464	2.050	2.091
L_L-A-20	272.5505	6.8138	60.0000	171.2098	16	5	4.2641	16	5	0.6282	94.5342	94.4527	2.018	2.050
L_L-A-19	230.0546	6.5730	60.0000	169.2513	16	10	4.8169	16	10	0.7357	94.6566	94.5342	1.991	2.018
L_L-A-18	230.0582	6.5731	60.0000	167.8217	17	38	4.7718	17	38	0.7295	94.8440	94.6566	1.951	1.991
L_L-A-17	230.1914	6.5769	60.0000	166.7634	17	38	4.7426	17	38	0.7245	95.0279	94.8440	1.917	1.951
L_L-A-15	168.1359	6.0049	48.0000	149.0936	17	52	5.2951	17	52	0.8867	95.5205	95.0300	2.108	2.147
Link766	81.7919	5.1120	48.0000	110.4526	19	40	6.8682	19	40	1.3504	95.0552	95.0300	2.146	2.147
L_L-A-14	168.0686	6.0025	48.0000	148.2887	17	54	5.2672	17	54	0.8823	95.7488	95.5205	2.090	2.108
L_L-A-13	168.0056	6.0002	48.0000	146.9448	17	55	5.2198	17	55	0.8746	95.8999	95.7488	2.077	2.090
L_L-A-12	168.0780	6.0028	48.0000	143.6248	17	57	5.1025	17	57	0.8545	96.1985	95.8999	2.049	2.077
L_L-A-9	138.5548	5.7731	48.0000	160.0064	15	55	6.6558	15	55	1.1548	97.0327	96.1985	2.126	2.049
L_L-A-8	138.4704	5.7696	48.0000	151.5415	15	55	6.3027	15	55	1.0944	97.1299	96.9915	2.036	2.116
L_L-A-7	109.7414	5.4871	48.0000	156.5037	16	20	7.8007	16	20	1.4261	97.4040	97.1299	1.931	1.928
L_L-A-6	109.6081	5.4804	48.0000	150.4893	16	26	7.4966	16	25	1.3730	97.8309	97.4040	1.950	1.931
L_L-A-5	109.6724	5.4836	48.0000	145.0115	16	30	7.2201	16	30	1.3222	98.3015	97.8309	1.980	1.950
L_L-A-4	29.8404	4.2216	36.0000	24.2216	16	15	4.0851	15	40	0.8117	98.3335	98.3015	1.806	1.912
L_L-A5OFF	14.2088	2.8946	30.0000	122.9848	16	47	24.6777	16	47	8.6556	99.5575	98.3015	3.623	3.168
L_L-A-3	18.3357	3.7353	30.0000	16.0809	16	15	4.5061	15	54	0.8770	98.3855	98.3335	1.315	1.453
L_L-A-2	10.1118	3.2187	24.0000	11.6212	16	15	4.6018	15	58	1.1493	98.4690	98.3855	1.337	1.394
L_L-A-50	12.3705	3.9377	24.0000	13.8589	24	48	4.3637	24	48	1.1203	94.1815	94.1857	3.536	3.593
L_L-A-51	12.4036	3.9482	24.0000	13.8592	24	48	4.3619	24	48	1.1174	94.1898	94.1815	3.338	3.536
L_L-MH-AA2	141.2113	5.9437	66.0000	102.9546	15	58	4.3003	15	58	0.7291	94.0691	94.0922	2.505	2.562
L_L-AA-2	12.9348	2.6351	30.0000	15.6695	16	6	3.1515	16	6	1.2114	94.0761	94.0692	3.470	3.499
L_L-AA-3	62.1120	3.9054	54.0000	34.4450	15	57	2.1517	15	57	0.5546	94.0728	94.0692	2.383	2.419
L_L-MH-AA1	82.3476	4.1939	60.0000	54.5390	15	58	2.7564	15	58	0.6623	94.0737	94.0692	2.488	2.556
L_L-AA-1	12.9458	2.6373	30.0000	13.6468	23	59	2.7448	23	59	1.0542	94.0854	94.0761	3.430	3.470
L_L-AA-4	62.2402	3.9134	54.0000	31.8608	15	57	1.9905	15	57	0.5119	94.0749	94.0728	2.362	2.383
L_L-AA-10	51.7934	3.4529	36.0000	40.1083	15	58	2.6540	15	58	0.7744	94.0761	94.0737	2.959	3.008
L_L-AA-55	29.9471	4.2366	36.0000	15.5923	16	3	2.1839	16	3	0.5207	94.0791	94.0737	2.943	3.008
L_GES-1	63.8331	5.0797	48.0000	103.4902	16	57	8.0944	16	56	1.6213	97.4508	96.4512	3.895	3.763
L_L-AA-5	45.4091	3.6135	48.0000	26.6989	15	56	2.1097	15	56	0.5880	94.0787	94.0749	2.500	2.533
L_L-AA-11	39.1724	3.2644	36.0000	36.7252	15	58	3.0378	15	58	0.9375	94.0790	94.0761	2.910	2.959
L_L-AA-54	18.3438	3.7370	30.0000	11.5364	16	3	2.3232	16	3	0.6289	94.0877	94.0791	3.216	3.332
L_L-AA-6	31.8194	3.3072	42.0000	22.4357	15	56	2.3136	15	56	0.7051	94.0815	94.0787	2.680	2.715
L_L-AA-12	39.1404	3.2617	36.0000	27.6722	15	57	2.2892	15	57	0.7070	94.0815	94.0790	2.860	2.910
L_L-AA-7	21.0936	2.9841	36.0000	17.5099	15	56	2.4549	15	56	0.8301	94.0820	94.0815	2.846	2.860
L_L-AA-13	26.8446	2.9827	36.0000	24.3939	16	0	2.6951	16	0	0.9087	94.0814	94.0815	2.477	2.527
L_L-AA-8	21.0756	2.9816	36.0000	12.3931	15	57	1.7379	15	57	0.5880	94.0869	94.0820	2.812	2.846
L_L-AA-14	21.0911	2.9838	36.0000	19.4133	16	0	2.7268	16	0	0.9204	94.0836	94.0814	2.395	2.477
L_L-AA-9	7.1579	2.2784	24.0000	7.7146	24	25	2.4247	24	25	1.0778	94.0961	94.0869	3.651	3.718
L_L-AA-15	21.0559	2.9788	36.0000	18.0242	23	22	2.5327	23	22	0.8560	94.0905	94.0836	2.355	2.395
L_L-AA-16	12.9984	2.6480	30.0000	17.7094	23	41	3.5785	23	41	1.3624	94.0995	94.0905	2.600	2.626
L_L-AA-17	13.0123	2.6509	30.0000	17.7869	23	21	3.5935	23	21	1.3669	94.1026	94.0995	2.571	2.600
L_L-A-OUT1	44623.76	0.0000	315.2400	1827.961	16	51	1.1505	16	0	0.0410	94.1857	94.1823	0.590	0.590
L_L-MH-A3	542930.9	10.5539	421.8000	-1824.51	17	33	-1.1208	6	2	-0.0034	94.1794	94.1560	0.438	0.440
L_L-MH-A1	921879.5	22.5815	417.9600	-1828.80	17	34	-1.6246	35	45	-0.0020	94.1552	94.1455	0.432	0.434
L_L-A-OUT2	467379.2	10.9651	417.1200	2034.702	17	34	2.0775	40	14	0.0044	94.1455	94.0922	0.433	0.445
L_L-AA-18	7.1511	2.2763	24.0000	13.6822	23	40	4.3078	23	40	1.9133	94.1056	94.1026	2.902	2.963
L-A-23OFF	4.6977	2.6583	18.0000	17.1399	26	48	9.6184	26	48	3.6486	97.2960	94.3024	5.251	3.575
L-A-24OFF	4.6977	2.6583	18.0000	5.9008	15	55	3.3209	15	55	1.2561	94.2748	94.2434	2.783	3.136
L_AA-OUT1	2202917.	41.4132	427.4400	2073.377	17	34	1.6868	49	30	0.0009	94.0922	94.0900	0.434	0.438
L-POND6C	31.1259	4.4034	36.0000	-97.4315	15	56	-13.4554	15	56	-3.1302	96.1993	96.1985	2.700	2.732
L-POND6D	29.8284	4.2199	36.0000	-43.1002	15	52	-5.9693	15	52	-1.4449	94.8614	94.7812	2.209	2.249
L-POND5C	21.0919	2.9839	36.0000	-29.1080	16	5	-4.0753	16	5	-1.3801	94.3464	94.3464	3.127	3.152
L_GES-2	64.9049	5.1650	48.0000	91.5048	17	54	7.1587	17	54	1.4098	96.4512	95.5537	3.763	3.661
L_GES-3	73.7680	4.6382	54.0000	89.3204	18	49	5.5342	18	49	1.2108	95.5537	94.2847	3.365	3.292
L_GES-4	192.5166	12.1047	54.0000	99.1644	19	33	6.1438	19	33	0.5151	94.2847	94.1857	3.292	3.417
L_POND6E	76.6962	3.8348	48.0000	-131.290	16	49	-7.8742	16	36	-1.7118	94.2431	94.7271	1.206	1.355
L_L-MH-A2	5694752.	115.1198	420.6000	-1828.23	17	34	-1.1900	35	45	-0.0003	94.1560	94.1552	0.432	0.439
L_L-MH-A4	41080.77	0.0000	315.2400	1825.277	16	51	1.4222	16	0	0.0444	94.1823	94.1794	0.590	0.590
FREE # 1	Undefnd	Undefnd	Undefn	2073.376	17	34								

Table E14 - Natural Channel Overbank Flow Information

Conduit Name	Maximum Velocity Left (Velocity)	Maximum Velocity Center (Velocity)	Maximum Velocity Right (Velocity)	Maximum Flow Left (Flow)	Maximum Flow Center (Flow)	Maximum Flow Right (Flow)	Maximum Area Left (Area)	Maximum Area Center (Area)	Maximum Area Right (Area)	Max. Storage Volume Left (Area)	Max. Storage Volume Center (Area)	Max. Storage Volume Right (Area)	Maximum Depth
L_L-A-OUT1	0.0043	1.4650	0.1126	1.6714	1643.3596	182.9301	385.7132	1121.7671	1624.4001	26999.924	78523.700	113708.01	15.4941
L_L-MH-A3	0.0039	1.1826	0.0917	0.8451	1761.9652	61.7016	216.4408	1489.8774	672.7716	91770.880	631708.00	285255.17	15.4499
L_L-MH-A1	0.0076	1.9576	0.0874	4.8786	1805.7440	18.1777	643.8924	922.4047	208.0314	45072.471	64568.327	14562.197	15.0891
L_L-A-OUT2	0.0169	1.5183	0.4465	13.2502	1478.7302	542.7214	785.7013	973.9315	1215.6033	300923.58	285361.92	302685.21	15.2649
L_AA-OUT1	0.0026	2.4354	0.1635	0.1375	1928.2706	144.9693	52.2728	791.7600	886.7533	1829.5478	27711.600	31036.365	15.5247
L_L-MH-A2	0.0054	1.3605	0.0684	3.7761	1810.9322	13.5234	700.9159	1331.0532	197.7968	7009.1591	13310.532	1977.9684	15.2632

L_L-MH-A4	0.0048	1.8410	0.1112	1.1214	1723.4803	100.6750	235.8158	936.1749	905.5142	5895.3958	23404.371	22637.856	15.4910

Table E14a - Natural Channel Encroachment Information

Conduit Name	Existing Conveyance Condition: Left Bank	Centre Channel	Right Bank	Total	Encroachment Conveyance Condition: Left Station	Right Station	Left Bank	Centre Channel	Right Bank	Total	% Volume Reduction: Left	Right	Encroachment Data: Depth Incr.	Method
L_L-A-OUT1	536.61	527598.	58729.4	586864.	3103.6	4790.7	536.61	527598.	58729.4	586864.	3103.6	4790.7	0.0000	0.0000	0.0000	None
L_L-MH-A3	233.72	487285.	17064.1	504583.	3773.9	5413.4	233.72	487285.	17064.1	504583.	3773.9	5413.4	0.0000	0.0000	0.0000	None
L_L-MH-A1	1033.3	382477.	3850.2	387360.	2902.6	4162.1	1033.3	382477.	3850.2	387360.	2902.6	4162.1	0.0000	0.0000	0.0000	None
L_L-A-OUT2	1428.2	159389.	58498.6	219315.	3044.1	4176.0	1428.2	159389.	58498.6	219315.	3044.1	4176.0	0.0000	0.0000	0.0000	None
L_AA-OUT1	29.262	410380.	30852.8	441262.	4947.6	5723.0	29.262	410380.	30852.8	441262.	4947.6	5723.0	0.0000	0.0000	0.0000	None
L_L-MH-A2	1069.8	513061.	3831.4	517962.	3522.1	5059.8	1069.8	513061.	3831.4	517962.	3522.1	5059.8	0.0000	0.0000	0.0000	None
L_L-MH-A4	257.79	396185.	23142.6	419585.	3107.0	4722.0	257.79	396185.	23142.6	419585.	3107.0	4722.0	0.0000	0.0000	0.0000	None

Table E14b - Floodplain Mapping

Conduit Name	Upstream WS Elev.	Downstream WS Elev.	Channel Length	Center Station	Left Offsets: Natural	Left Encroach	Left Bank	Right Offsets: Natural	Right Encroach	Right Bank	Channel Widths: Total	Encroach.
L_L-A-OUT1	94.1857	94.1823	70.0000	3553.8900	450.2975	450.2975	69.7100	1236.7660	1236.7660	33.1800	1687.0635	1687.0635
L_L-MH-A3	94.1560	94.1794	424.0000	4295.8800	521.9690	521.9690	167.2700	1117.5460	1117.5460	77.7300	1639.5150	1639.5150
L_L-MH-A1	94.1455	94.1552	70.0000	3542.9800	640.3693	640.3693	58.0000	619.1341	619.1341	45.1900	1259.5034	1259.5034
L_L-A-OUT2	94.1455	94.0922	293.0000	3543.3300	499.2773	499.2773	55.7000	632.6998	632.6998	45.8100	1131.9771	1131.9771
L_AA-OUT1	94.0922	94.0900	35.0000	5025.5000	77.9021	77.9021	51.0000	697.5000	697.5000	0.0000	775.4021	775.4021
L_L-MH-A2	94.1552	94.1560	10.0000	4295.9400	773.8758	773.8758	90.3800	763.8410	763.8410	79.7300	1537.7168	1537.7168
L_L-MH-A4	94.1823	94.1794	25.0000	3544.3400	437.3841	437.3841	58.0000	1177.6872	1177.6872	43.2200	1615.0713	1615.0713

Table E15 - SPREADSHEET INFO LIST

Conduit Flow and Junction Depth Information for use in spreadsheets. The maximum values in this table are the true maximum values because they sample every time step. The values in the review results may only be the maximum of a subset of all the time steps in the run. Note: These flows are only the flows in a single barrel.

Conduit Name	Maximum Flow (cfs)	Total Flow (ft^3)	Maximum Velocity (ft/s)	Maximum Volume (ft^3)	##	Junction Name	Invert Elevation (ft)	Maximum Elevation (ft)
L_L-A-43	105.4768	2153420.057	4.1985	2795.8378	##	A-OUT1	78.6900	94.1857
L_L-A-42	96.9921	2089828.854	3.8610	3832.8157	##	A-43	83.2780	94.1938
L_L-A-41	97.2168	2067474.520	3.8698	3142.3281	##	A-42	83.6590	94.2040
L_L-A-40	91.6434	2040893.735	3.6488	3769.7499	##	A-41	83.9720	94.2789
L_L-A-39	86.0308	2014074.841	3.5312	3768.9828	##	A-40	84.3470	94.3689
L_L-A-38	80.4648	1982903.767	3.6899	4383.3299	##	A-39	84.7220	94.4565
L_L-A-37	72.0298	1895816.964	3.8669	3760.0690	##	A-38	85.1580	94.5505
L_L-A-36	67.8918	1868825.311	3.9995	3784.0910	##	A-37	85.5320	94.6159
L_L-A-35	63.8640	1841069.442	4.1286	7512.7379	##	A-36	85.9090	94.6752
L_L-A-34	61.9240	1377680.334	5.3910	3017.2983	##	A-35	86.6570	94.7814
L-A-35OFF	58.2949	435949.8190	8.1927	358.0592	##	A-34	88.0330	94.7812
L_L-A-32	-51.5150	1190230.752	4.5333	4045.8306	##	A-35OFF	88.7780	95.1235
L_L-A-31	-53.7419	1159953.928	4.6755	2451.6878	##	A-32	88.5370	94.7646
L_L-A-30	-56.2547	1117237.482	4.8256	3737.4770	##	A-31	88.8430	94.7520
L_L-A-29	92.6805	636023.8834	7.3564	3140.7501	##	A-30	89.3090	94.7271
L_L-A-28	86.2799	602495.1404	6.8498	1984.8175	##	A-29	89.9050	95.6379
L_L-A-27	79.6125	567030.1445	6.3161	1325.7805	##	A-28	90.2820	96.1701
L_L-A-26	63.9648	474918.0486	6.6237	1252.9304	##	A-27	90.5340	96.4774
L-A-27OFF	6.8792	34959.1791	4.1202	49.4340	##	A-26	91.3450	96.9771
L_L-A-25	56.0122	429212.9190	5.7987	1770.0728	##	A-27OFF	92.5720	96.4875
L_L-A-44	48.9914	388225.6240	6.8947	1112.7548	##	A-25	91.7840	97.5186
L_L-A-24	187.7477	5418905.399	4.1486	4169.4510	##	A-44	92.6590	98.3231
L_L-A-23	185.5464	5354017.487	4.1003	4977.3773	##	A-OUT2	79.1000	94.1455
L_L-A-22	174.3725	3751342.244	3.8539	4204.2499	##	A-24	83.4840	94.2434
L-A-23B	17.1521	1570380.678	5.5658	111.1525	##	A-23	83.7040	94.2985
L_L-A-21	175.5849	3656565.131	4.3724	6280.6436	##	A-22	83.8900	94.3464
L_L-A-20	171.2098	3636450.884	4.2641	4843.6998	##	A-23B	85.7500	94.3024
L_L-A-19	169.2513	3614901.627	4.8169	4556.9479	##	A-21	84.2020	94.4527
L_L-A-18	167.8217	3582416.095	4.7718	6772.7105	##	A-20	84.4430	94.5342
L_L-A-17	166.7634	3550860.476	4.7426	6218.9484	##	A-19	84.7020	94.6566
L_L-A-15	149.0936	3113231.940	5.2951	9134.4721	##	A-18	85.0870	94.8440
Link766	110.4526	400488.2320	6.8682	242.3901	##	A-17	85.4410	95.0279

L_L-A-14	148.2887	3079027.672	5.2672	4224.9210	##	A-15	87.0900	95.5205
L_L-A-13	146.9448	3035613.296	5.2198	2832.5697	##	A-17OFF	84.9710	95.0552
L_L-A-12	143.6248	2917724.878	5.1025	5786.6242	##	A-14	87.3900	95.7488
L_L-A-9	160.0064	2685133.723	6.6558	6332.1065	##	A-13	87.5910	95.8999
L_L-A-8	151.5415	2614464.495	6.3027	5540.6194	##	A-12	88.0020	96.1985
L_L-A-7	156.5037	1945262.306	7.8007	2669.3348	##	A-9	88.5270	96.9915
L_L-A-6	150.4893	1913084.813	7.4966	3520.8652	##	A-8	88.9850	97.1299
L_L-A-5	145.0115	1879930.858	7.2201	3517.0623	##	A-7	89.6820	97.4040
L_L-A-4	24.2216	122873.7669	4.0851	1292.0363	##	A-6	90.0320	97.8309
L_L-A-5OFF	122.9848	1723288.108	24.6777	77.1892	##	A-5	90.3820	98.3015
L_L-A-3	16.0809	82694.6432	4.5061	1024.6711	##	A-4	92.9150	98.3335
L_L-A-2	11.6212	61588.1987	4.6018	324.7398	##	A-5OFF	90.4000	99.5575
L_L-A-50	13.8589	73034.2962	4.3637	121.1545	##	A-3	95.0980	98.3855
L_L-A-51	13.8592	60033.4034	4.3619	439.7534	##	A-2	95.7950	98.4690
L_L-MH-AA2	102.9546	668179.1814	4.3003	4084.6475	##	A-50	87.1100	94.1815
L_L-AA-2	15.6695	82354.4969	3.1515	403.6173	##	A-51	87.5140	94.1898
L_L-AA-3	34.4450	215485.7831	2.1517	2807.7114	##	AA-OUT1	78.6200	94.0922
L_L-MH-AA1	54.5390	370406.5199	2.7564	7041.6325	##	MH-AA2	80.2900	94.0691
L_L-AA-1	13.6468	66021.2392	2.7448	568.2413	##	AA-2	85.4000	94.0761
L_L-AA-4	31.8608	200176.7569	1.9905	1564.5155	##	AA-3	83.3500	94.0728
L_L-AA-10	40.1083	289009.3043	2.6540	2285.2549	##	MH-AA1	81.6320	94.0737
L_L-AA-55	15.5923	81386.4082	2.1839	735.1550	##	AA-1	85.5100	94.0854
L_GES-1	103.4902	2268338.454	8.0944	3135.3230	##	AA-4	83.4440	94.0749
L_L-AA-5	26.6989	155978.2190	2.1097	1753.2384	##	AA-10	85.2000	94.0761
L_L-AA-11	36.7252	265768.8482	3.0378	1814.6594	##	AA-55	85.2500	94.0791
L_L-AA-54	11.5364	58989.7694	2.3232	766.7153	##	GES-1	81.8700	97.4508
L_L-AA-6	22.4357	133247.4874	2.3136	1250.3685	##	AA-5	84.0770	94.0787
L_L-AA-12	27.6722	203663.1290	2.2892	1817.1870	##	AA-11	85.3500	94.0790
L_L-AA-7	17.5099	106673.5360	2.4549	2541.2641	##	AA-54	86.0480	94.0877
L_L-AA-13	24.3939	177681.2802	2.6951	1361.3694	##	AA-6	84.7010	94.0815
L_L-AA-8	12.3931	72578.0689	1.7379	786.6927	##	AA-12	85.5000	94.0815
L_L-AA-14	19.4133	148567.8778	2.7268	1852.6820	##	AA-7	85.5440	94.0820
L_L-AA-9	7.7146	29067.7681	2.4247	473.7104	##	AA-13	86.6500	94.0814
L_L-AA-15	18.0242	130259.5436	2.5327	929.4421	##	AA-8	85.6500	94.0869
L_L-AA-16	17.7094	106236.0372	3.5785	384.3045	##	AA-14	86.9000	94.0836
L_L-AA-17	17.7869	80653.9946	3.5935	388.5962	##	AA-9	86.7940	94.0961
L_L-A-OUT1	1827.9611	70609640.79	1.1505	219231.6308	##	AA-15	87.0250	94.0905
L_L-MH-A3	-1824.5120	-70628002.6	-1.1208	1.00873E+06	##	AA-16	87.6000	94.0995
L_L-MH-A1	-1828.8002	-70647886.2	-1.6246	124202.9952	##	AA-17	87.6760	94.1026
L_L-A-OUT2	2034.7017	76429671.19	2.0775	888970.7181	##	AA-18	88.3010	94.1056
L_L-AA-18	13.6822	54300.7059	4.3078	411.9887	##	MH-A1	79.0300	94.1552
L-A-23OFF	17.1399	1570003.443	9.6184	441.7672	##	MH-A3	78.6900	94.1794
L-A-24OFF	5.9008	63897.0538	3.3209	518.0542	##	A-23OFF	89.4200	97.2960
L_AA-OUT1	2073.3775	77105377.16	1.6868	60577.5125	##	A-24OFF	90.1000	94.2748
L-POND6C	-97.4315	200119.3965	-13.4554	333.4574	##	E117-OUT	78.5000	94.0900
L-POND6D	-43.1002	139643.4932	-5.9693	741.0165	##	POND6C	88.1000	96.1993
L-POND5C	-29.1080	52111.4421	-4.0753	548.3522	##	POND6D	88.2330	94.8614
L_GES-2	91.5048	2303442.237	7.1587	3161.6703	##	POND5C	84.9640	94.3464
L_GES-3	89.3204	2318250.858	5.5342	11055.3218	##	POND6E	89.4200	94.2431
L_GES-4	99.1644	2317983.579	6.1438	366.8008	##	GES-2	81.4000	96.4512
L_POND6E	-131.2896	363897.8769	-7.8742	2276.2078	##	GES-3	80.4100	95.5537
L_L-MH-A2	-1828.2318	-70644927.5	-1.1900	22297.6592	##	GES-4	79.4700	94.2847
L_L-MH-A4	1825.2768	70614287.06	1.4222	51937.6230	##	MH-A2	78.7800	94.1560
FREE # 1	2073.3764	77105402.22	0.0000	0.0000	##	MH-A4	78.6900	94.1823

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| Table E15a - SPREADSHEET REACH LIST |
| Peak flow and Total Flow listed by Reach or those |
| conduits or diversions having the same |
| upstream and downstream nodes. |
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Upstream Node	Downstream Node	Maximum Flow (cfs)	Total Flow (ft^3)
A-43	A-OUT1	105.4768	2153420.06
A-42	A-43	96.9921	2089828.85
A-41	A-42	97.2168	2067474.52
A-40	A-41	91.6434	2040893.73

A-39	A-40	86.0308	2014074.84
A-38	A-39	80.4648	1982903.77
A-37	A-38	72.0298	1895816.96
A-36	A-37	67.8918	1868825.31
A-35	A-36	63.8640	1841069.44
A-34	A-35	61.9240	1377680.33
A-35OFF	A-35	58.2949	435949.819
A-32	A-34	-51.5150	1190230.75
A-31	A-32	-53.7419	1159953.93
A-30	A-31	-56.2547	1117237.48
A-29	A-30	92.6805	636023.883
A-28	A-29	86.2799	602495.140
A-27	A-28	79.6125	567030.144
A-26	A-27	63.9648	474918.049
A-27OFF	A-27	6.8792	34959.1791
A-25	A-26	56.0122	429212.919
A-44	A-25	48.9914	388225.624
A-24	A-OUT2	187.7477	5418905.40
A-23	A-24	185.5464	5354017.49
A-22	A-23	174.3725	3751342.24
A-23B	A-23	17.1521	1570380.68
A-21	A-22	175.5849	3656565.13
A-20	A-21	171.2098	3636450.88
A-19	A-20	169.2513	3614901.63
A-18	A-19	167.8217	3582416.09
A-17	A-18	166.7634	3550860.48
A-15	A-17	149.0936	3113231.94
A-17OFF	A-17	110.4526	400488.232
A-14	A-15	148.2887	3079027.67
A-13	A-14	146.9448	3035613.30
A-12	A-13	143.6248	2917724.88
A-9	A-12	160.0064	2685133.72
A-8	A-9	151.5415	2614464.50
A-7	A-8	156.5037	1945262.31
A-6	A-7	150.4893	1913084.81
A-5	A-6	145.0115	1879930.86
A-4	A-5	24.2216	122873.767
A-5OFF	A-5	122.9848	1723288.11
A-3	A-4	16.0809	82694.6432
A-2	A-3	11.6212	61588.1987
A-50	A-OUT1	13.8589	73034.2962
A-51	A-50	13.8592	60033.4034
MH-AA2	AA-OUT1	102.9546	668179.181
AA-2	MH-AA2	15.6695	82354.4969
AA-3	MH-AA2	34.4450	215485.783
MH-AA1	MH-AA2	54.5390	370406.520
AA-1	AA-2	13.6468	66021.2392
AA-4	AA-3	31.8608	200176.757
AA-10	MH-AA1	40.1083	289009.304
AA-55	MH-AA1	15.5923	81386.4082
GES-1	GES-2	103.4902	2268338.45
AA-5	AA-4	26.6989	155978.219
AA-11	AA-10	36.7252	265768.848
AA-54	AA-55	11.5364	58989.7694
AA-6	AA-5	22.4357	133247.487
AA-12	AA-11	27.6722	203663.129
AA-7	AA-6	17.5099	106673.536
AA-13	AA-12	24.3939	177681.280
AA-8	AA-7	12.3931	72578.0689
AA-14	AA-13	19.4133	148567.878
AA-9	AA-8	7.7146	29067.7681
AA-15	AA-14	18.0242	130259.544
AA-16	AA-15	17.7094	106236.037
AA-17	AA-16	17.7869	80653.9946

A-OUT1	MH-A4	1827.9611	70609640.8
MH-A2	MH-A3	1824.5120	70628002.6
A-OUT2	MH-A1	1828.8002	70647886.2
A-OUT2	AA-OUT1	2034.7017	76429671.2
AA-18	AA-17	13.6822	54300.7059
A-23OFF	A-23B	17.1399	1570003.44
A-24OFF	A-24	5.9008	63897.0538
AA-OUT1	E117-OUT	2073.3775	77105377.2
POND6C	A-12	-97.4315	200119.397
POND6D	A-34	-43.1002	139643.493
POND5C	A-22	-29.1080	52111.4421
GES-2	GES-3	91.5048	2303442.24
GES-3	GES-4	89.3204	2318250.86
GES-4	A-OUT1	99.1644	2317983.58
POND6E	A-30	-131.2896	363897.877
MH-A1	MH-A2	1828.2318	70644927.5
MH-A4	MH-A3	1825.2768	70614287.1

Table E19 - Junction Inflow & Outflow Listing
Units are either ft^3 or m^3 depending on the units in your model.

Junction Name	Constant Inflow to Node	User Inflow to Node	Interface Inflow to Node	DWF Inlow to Node	Inflow through Outfall	RNF Layer Inflow to Node	Outflow from Node	Evaporation from Node	Inflow from 2D Layer
A-OUT1	0.0000	66.0632E+06	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
A-43	0.0000	62847.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
A-42	0.0000	21996.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
A-41	0.0000	26361.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
A-40	0.0000	26379.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
A-39	0.0000	30690.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
A-38	0.0000	86580.0200	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
A-37	0.0000	26505.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
A-36	0.0000	27027.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
A-35	0.0000	27414.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
A-34	0.0000	46863.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
A-35OFF	0.0000	435964.5350	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
A-32	0.0000	29826.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
A-31	0.0000	42282.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
A-30	0.0000	116860.5050	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
A-29	0.0000	33489.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
A-28	0.0000	35424.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
A-27	0.0000	56808.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
A-26	0.0000	45990.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
A-27OFF	0.0000	34965.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
A-25	0.0000	40509.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
A-44	0.0000	388633.5450	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
A-OUT2	0.0000	343894.5850	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
A-23	0.0000	31734.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
A-22	0.0000	42948.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
A-21	0.0000	20781.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
A-20	0.0000	22329.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
A-19	0.0000	33174.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
A-18	0.0000	30501.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
A-17	0.0000	30060.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
A-15	0.0000	26253.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
A-17OFF	0.0000	384592.5550	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
A-14	0.0000	43749.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
A-13	0.0000	120352.5050	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
A-12	0.0000	32517.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
A-9	0.0000	40590.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
A-8	0.0000	686722.9750	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
A-7	0.0000	32562.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
A-6	0.0000	33183.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
A-5	0.0000	33534.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
A-4	0.0000	40104.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	

A-5OFF	0.0000	1.7212E+06	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
A-3	0.0000	21258.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
A-2	0.0000	61695.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
A-50	0.0000	12582.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
A-51	0.0000	46692.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
AA-2	0.0000	16470.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
AA-3	0.0000	14922.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
AA-1	0.0000	63909.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
AA-4	0.0000	43803.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
AA-10	0.0000	23814.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
AA-55	0.0000	22842.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
GES-1	0.0000	2.1978E+06	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
AA-5	0.0000	22086.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
AA-11	0.0000	62505.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
AA-54	0.0000	58824.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
AA-6	0.0000	25677.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
AA-12	0.0000	26478.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
AA-7	0.0000	33417.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
AA-13	0.0000	26478.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
AA-8	0.0000	43065.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
AA-14	0.0000	17433.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
AA-9	0.0000	26910.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
AA-15	0.0000	22293.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
AA-16	0.0000	26532.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
AA-17	0.0000	22005.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
AA-18	0.0000	17433.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
A-23OFF	0.0000	1.5670E+06	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
A-24OFF	0.0000	62127.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
E117-OUT	0.0000	0.0000	0.0000	0.0000	18.7723	0.0000	77.1054E+06	0.0000
POND6C	0.0000	183600.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
POND6D	0.0000	132714.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
POND5C	0.0000	53622.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
POND6E	0.0000	338814.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Table E20 - Junction Flooding and Volume Listing. The maximum volume is the total volume in the node including the volume in the flooded storage area. This is the max volume at any time. The volume in the flooded storage area is the total volume above the ground elevation, where the flooded pond storage area starts. The fourth column is instantaneous, the fifth is the sum of the flooded volume over the entire simulation. Units are either ft^3 or m^3 depending on the units.

Junction Name	Surcharged Time (min)	Flooded Time(min)	Out of 1D-System (Flooded Volume)	Maximum Volume	Passed to 2D cell OR Volume Stored in allowed Flood Pond of 1D-System
A-OUT1	0.0000	0.0000	0.0000	194.7187	0.0000
A-43	853.3750	435.8833	0.0000	9182.2525	12426.8985
A-42	826.1333	397.9083	0.0000	6520.2368	9969.8236
A-41	804.0417	288.1250	0.0000	3035.0360	5076.0759
A-40	776.0833	10.7333	0.0000	272.0406	168.9360
A-39	747.9583	0.0000	0.0000	122.3233	0.0000
A-38	716.8917	0.0000	0.0000	118.0266	0.0000
A-37	693.2083	0.0000	0.0000	114.1483	0.0000
A-36	668.8250	0.0000	0.0000	110.1555	0.0000
A-35	620.2000	0.0000	0.0000	102.0914	0.0000
A-34	595.1750	0.0000	0.0000	84.7973	0.0000
A-35OFF	612.6917	256.7000	0.0000	524.6990	565.8080
A-32	553.2000	0.0000	0.0000	78.2570	0.0000
A-31	521.0250	0.0000	0.0000	74.2526	0.0000
A-30	445.4000	0.0000	0.0000	0.0000	0.0000
A-29	301.2083	0.0000	0.0000	72.0402	0.0000
A-28	66.2417	0.0000	0.0000	73.9895	0.0000
A-27	61.2583	0.0000	0.0000	74.6849	0.0000
A-26	59.1000	0.0000	0.0000	70.7724	0.0000
A-27OFF	60.0167	0.0000	0.0000	49.2027	0.0000
A-25	55.4833	0.0000	0.0000	72.0612	0.0000

A-44	57.1250	0.0000	0.0000	71.1748	0.0000
A-OUT2	0.0000	0.0000	0.0000	189.0620	0.0000
A-24	635.0500	480.3333	0.0000	15259.4499	18675.1188
A-23	820.9917	431.0167	0.0000	10729.3722	13055.0398
A-22	807.4250	431.7500	0.0000	10340.7270	13281.5575
A-23B	683.5250	520.8750	0.0000	5345.2259	6692.5610
A-21	783.2000	435.0250	0.0000	13324.8546	19247.9022
A-20	763.6667	437.6000	0.0000	14869.6073	21080.9658
A-19	742.6500	358.2167	0.0000	10080.9111	17335.5283
A-18	712.1833	215.5500	0.0000	4262.0014	18384.2883
A-17	686.4083	140.0250	0.0000	1044.8045	8989.5703
A-15	639.6083	187.5583	0.0000	4032.8813	9128.9501
A-17OFF	684.2000	144.5750	0.0000	1200.8658	7918.1789
A-14	618.6833	224.8750	0.0000	12751.3793	22674.1227
A-13	605.2500	0.0000	0.0000	15029.7947	0.0000
A-12	576.4667	127.4583	0.0000	3836.2292	18353.7586
A-9	537.7250	60.9250	0.0000	2146.0754	11624.7017
A-8	415.8583	0.0000	0.0000	229128.0742	0.0000
A-7	359.9917	0.0000	0.0000	97.0352	0.0000
A-6	287.1583	0.0000	0.0000	98.0010	0.0000
A-5	213.2667	0.0000	0.0000	99.5159	0.0000
A-4	122.4500	0.0000	0.0000	68.0891	0.0000
A-5OFF	511.4083	128.5000	0.0000	24965.2285	29492.2931
A-3	102.0000	0.0000	0.0000	41.3107	0.0000
A-2	94.6750	0.0000	0.0000	33.6011	0.0000
A-50	790.5917	430.1000	0.0000	7478.0375	9399.7361
A-51	756.7083	509.3000	0.0000	9499.8646	15088.9690
AA-OUT1	0.0000	0.0000	0.0000	194.4240	0.0000
MH-AA2	884.0417	443.4917	0.0000	173.1489	54.0641
AA-2	878.2083	453.3333	0.0000	7918.5408	10725.3921
AA-3	881.9167	454.1500	0.0000	8915.0545	11404.3053
MH-AA1	867.2167	457.6417	0.0000	156.3427	157.1414
AA-1	870.0000	464.3417	0.0000	8760.2776	12487.7277
AA-4	874.8083	462.3750	0.0000	10365.5367	12604.0706
AA-10	856.2500	467.3000	0.0000	9289.3282	14602.9726
AA-55	852.8500	462.5417	0.0000	8485.9776	12860.0530
GES-1	1039.8333	571.2250	0.0000	255032.2099	332575.6752
AA-5	865.2833	473.7167	0.0000	10881.1051	13495.4122
AA-11	845.5500	477.1167	0.0000	10870.6244	19924.9051
AA-54	830.7250	475.2083	0.0000	9486.1421	15229.2455
AA-6	856.1333	485.8667	0.0000	11563.0859	15240.3767
AA-12	755.9417	487.4833	0.0000	11884.8966	24409.2164
AA-7	830.8917	508.2833	0.0000	13845.2233	19118.9941
AA-13	743.3417	399.2333	0.0000	4118.1319	8770.7299
AA-8	823.1667	507.2083	0.0000	13060.9937	18055.3328
AA-14	723.0250	229.4250	0.0000	1156.0878	3099.0453
AA-9	812.5083	504.1000	0.0000	12459.9763	17899.3180
AA-15	713.0250	425.5000	0.0000	4567.7375	13536.4880
AA-16	705.9417	460.4667	0.0000	5553.8563	27310.2580
AA-17	701.3083	445.2000	0.0000	4674.8453	35043.0410
AA-18	689.9917	384.9250	0.0000	1273.2205	10592.1495
MH-A1	0.0000	0.0000	0.0000	190.0636	0.0000
MH-A3	0.0000	0.0000	0.0000	194.6400	0.0000
A-23OFF	1729.1333	0.0000	0.0000	173694.8024	0.0000
A-24OFF	598.1333	0.0000	0.0000	23284.0334	0.0000
E117-OUT	0.0000	0.0000	0.0000	195.9039	0.0000
POND6C	621.2250	0.0000	0.0000	455153.9326	0.0000
POND6D	648.0583	0.0000	0.0000	210558.7940	0.0000
POND5C	874.9167	0.0000	0.0000	189875.3703	0.0000
POND6E	344.4750	0.0000	0.0000	1043955.340	0.0000
GES-2	1092.0250	538.3417	0.0000	90798.2968	151931.7427
GES-3	1156.7750	580.0833	0.0000	59432.7601	142522.9796
GES-4	1300.6167	656.0917	0.0000	158200.2022	247384.0582
MH-A2	0.0000	0.0000	0.0000	193.2149	0.0000

MH-A4	0.0000	0.0000	0.0000	194.6756	0.0000

Simulation Specific Information					
Number of Input Conduits.....	85	Number of Simulated Conduits.....	86		
Number of Natural Channels.....	7	Number of Junctions.....	86		
Number of Storage Junctions.....	23	Number of Weirs.....	0		
Number of Orifices.....	0	Number of Pumps.....	0		
Number of Free Outfalls.....	1	Number of Tide Gate Outfalls.....	0		

Average % Change in Junction or Conduit is defined as:
Conduit % Change ==> 100.0 (Q(n+1) - Q(n)) / Qfull
Junction % Change ==> 100.0 (Y(n+1) - Y(n)) / Yfull

The Conduit with the largest average change was..L_L-MH-A4 with 6.661 percent
The Junction with the largest average change was.GES-2 with 0.574 percent
The Conduit with the largest sinuosity was.....L_L-AA-18 with 631.702

Table E21. Continuity balance at the end of the simulation
Junction Inflow, Outflow or Street Flooding
Error = Inflow + Initial Volume - Outflow - Final Volume

Inflow Junction	Inflow Volume,ft^3	Average Inflow, cfs
A-OUT1	66.06324E+06	244.6787
A-43	62847.0000	0.2328
A-42	21996.0000	0.0815
A-41	26361.0000	0.0976
A-40	26379.0000	0.0977
A-39	30690.0000	0.1137
A-38	86580.0100	0.3207
A-37	26505.0000	0.0982
A-36	27027.0000	0.1001
A-35	27414.0000	0.1015
A-34	46863.0000	0.1736
A-35OFF	435964.5175	1.6147
A-32	29826.0000	0.1105
A-31	42282.0000	0.1566
A-30	116860.5025	0.4328
A-29	33489.0000	0.1240
A-28	35424.0000	0.1312
A-27	56808.0000	0.2104
A-26	45990.0000	0.1703
A-27OFF	34965.0000	0.1295
A-25	40509.0000	0.1500
A-44	388633.5225	1.4394
A-OUT2	343894.5425	1.2737
A-23	31734.0000	0.1175
A-22	42948.0000	0.1591
A-21	20781.0000	0.0770
A-20	22329.0000	0.0827
A-19	33174.0000	0.1229
A-18	30501.0000	0.1130
A-17	30060.0000	0.1113
A-15	26253.0000	0.0972
A-17OFF	384592.5275	1.4244
A-14	43749.0000	0.1620
A-13	120352.5025	0.4458
A-12	32517.0000	0.1204
A-9	40590.0000	0.1503
A-8	686722.7375	2.5434
A-7	32562.0000	0.1206
A-6	33183.0000	0.1229
A-5	33534.0000	0.1242
A-4	40104.0000	0.1485
A-5OFF	1.72116E+06	6.3747
A-3	21258.0000	0.0787
A-2	61695.0000	0.2285
A-50	12582.0000	0.0466
A-51	46692.0000	0.1729
AA-2	16470.0000	0.0610

AA-3	14922.0000	0.0553
AA-1	63909.0000	0.2367
AA-4	43803.0000	0.1622
AA-10	23814.0000	0.0882
AA-55	22842.0000	0.0846
GES-1	2.19782E+06	8.1401
AA-5	22086.0000	0.0818
AA-11	62505.0000	0.2315
AA-54	58824.0000	0.2179
AA-6	25677.0000	0.0951
AA-12	26478.0000	0.0981
AA-7	33417.0000	0.1238
AA-13	26478.0000	0.0981
AA-8	43065.0000	0.1595
AA-14	17433.0000	0.0646
AA-9	26910.0000	0.0997
AA-15	22293.0000	0.0826
AA-16	26532.0000	0.0983
AA-17	22005.0000	0.0815
AA-18	17433.0000	0.0646
A-23OFF	1.56704E+06	5.8039
A-24OFF	62127.0000	0.2301
E117-OUT	18.7723	0.0001
POND6C	183600.0000	0.6800
POND6D	132714.0000	0.4915
POND5C	53622.0000	0.1986
POND6E	338814.0000	1.2549
E117-OUT	-77.105E+06	-285.5756

Outflow Junction	Outflow Volume,ft^3	Average Outflow, cfs
E117-OUT	77.10542E+06	285.5756

===

Initial system volume	= 0.0004 Cu Ft
Total system inflow volume	= 76.752279E+06 Cu Ft
Inflow + Initial volume	= 76.752279E+06 Cu Ft

===

Total system outflow	= 77.105421E+06 Cu Ft
Volume left in system	= 23465.2166 Cu Ft
Evaporation	= 0.0000 Cu Ft
Outflow + Final Volume	= 77.128886E+06 Cu Ft

===

==
| Total Model Continuity Error |
| Error in Continuity, Percent = -0.4907 |
| Error in Continuity, ft^3 = -376607.456 |
| + Error means a continuity loss, - a gain |
==

##
Table E22. Numerical Model judgement section
##

Your overall error was -0.4907 percent

Worst nodal error was in node GES-1 with -1.5865 percent

Of the total inflow this loss was 0.0923 percent

Your overall continuity error was Excellent

Excellent Efficiency

Efficiency of the simulation 1.38

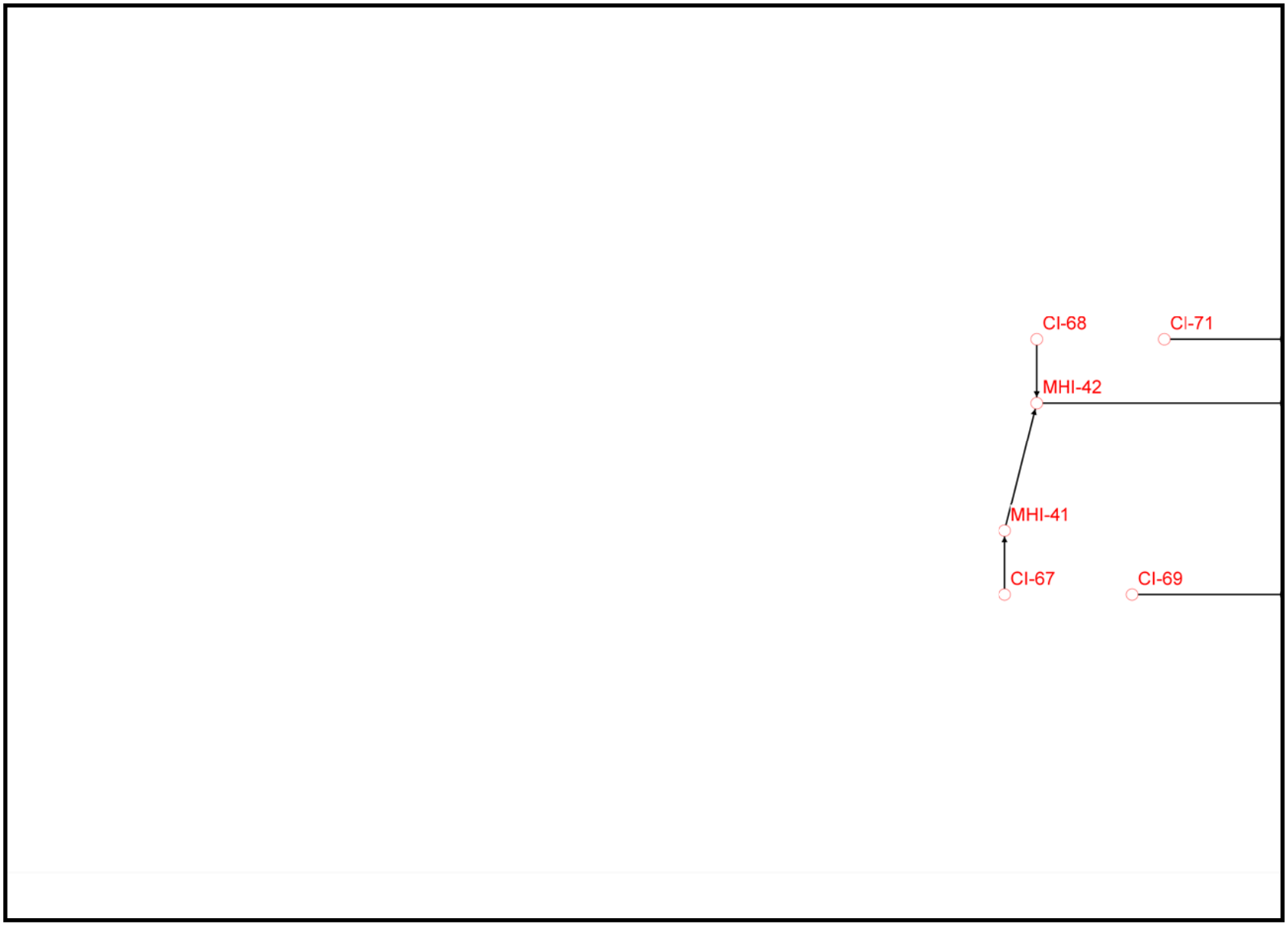
Most Number of Non Convergences at one Node 0.

Total Number Non Convergences at all Nodes 0.

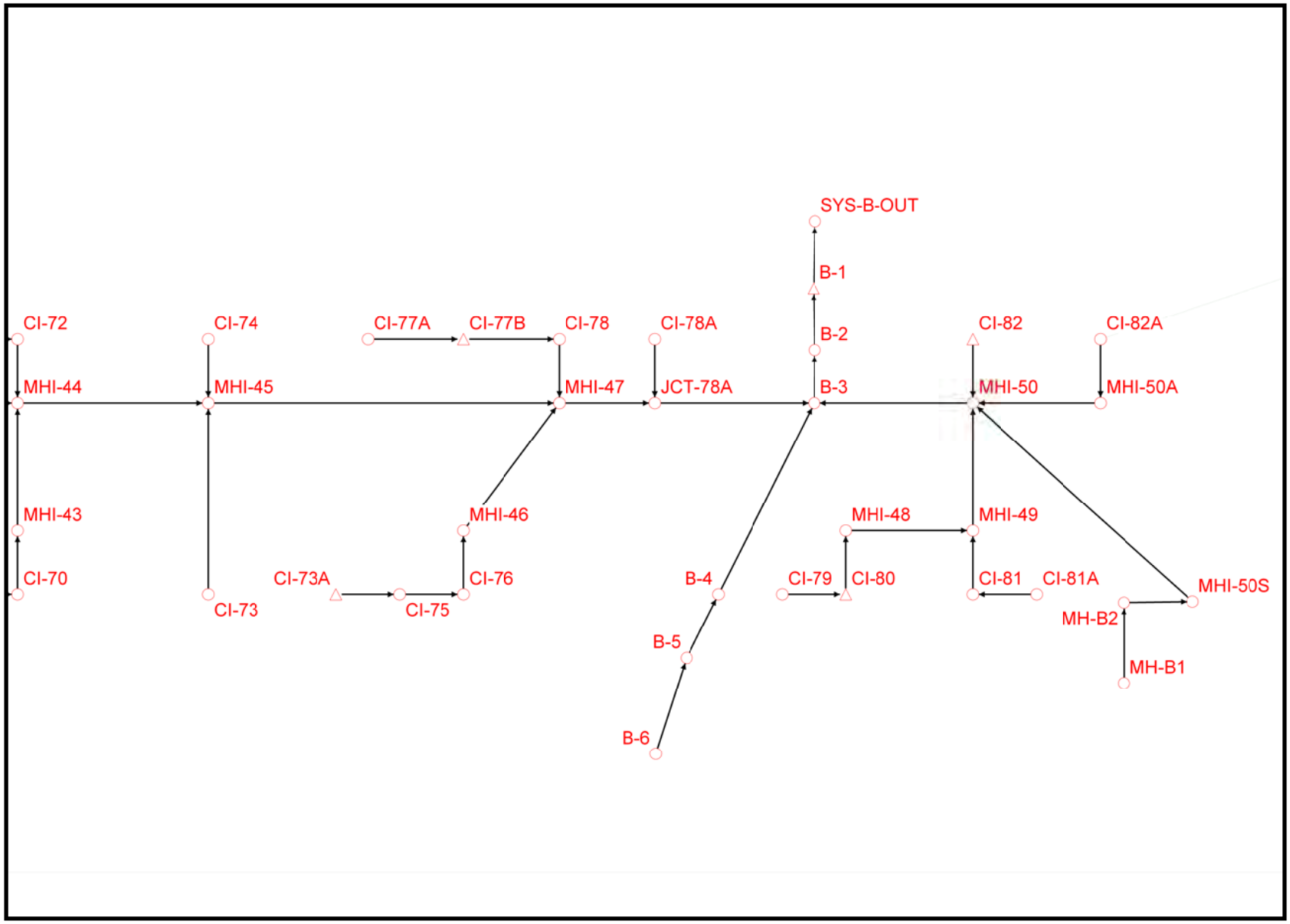
```
Total Number of Nodes with Non Convergences        0.


===> Hydraulic model simulation ended normally.
===> XP-SWMM Simulation ended normally.


===> Your input file was named  : P:\PROJECTS\290PMC\PHASEII\DRA\Models\SWMM\Outfalls 9-16\SWMM\Report 6-2011\Mitigated\US290_Mit_SegB_SysA&AA.DAT
===> Your output file was named : P:\PROJECTS\290PMC\PHASEII\DRA\Models\SWMM\Outfalls 9-16\SWMM\Report 6-2011\Mitigated\US290_Mit_SegB_SysA&AA.out

*============================================================*
|             SWMM Simulation Date and Time Summary          |
*============================================================*
| Starting Date... June       23, 2011  Time...   15:39:21:51  |
|   Ending Date... June       23, 2011  Time...   16: 9: 7:41  |
|  Elapsed Time...   29.76500 minutes or   1785.90000 seconds  |
*============================================================*
```

OUTFALL 11-16
SWMM OUTPUT
100 YR- EXISTING CONDITIONS

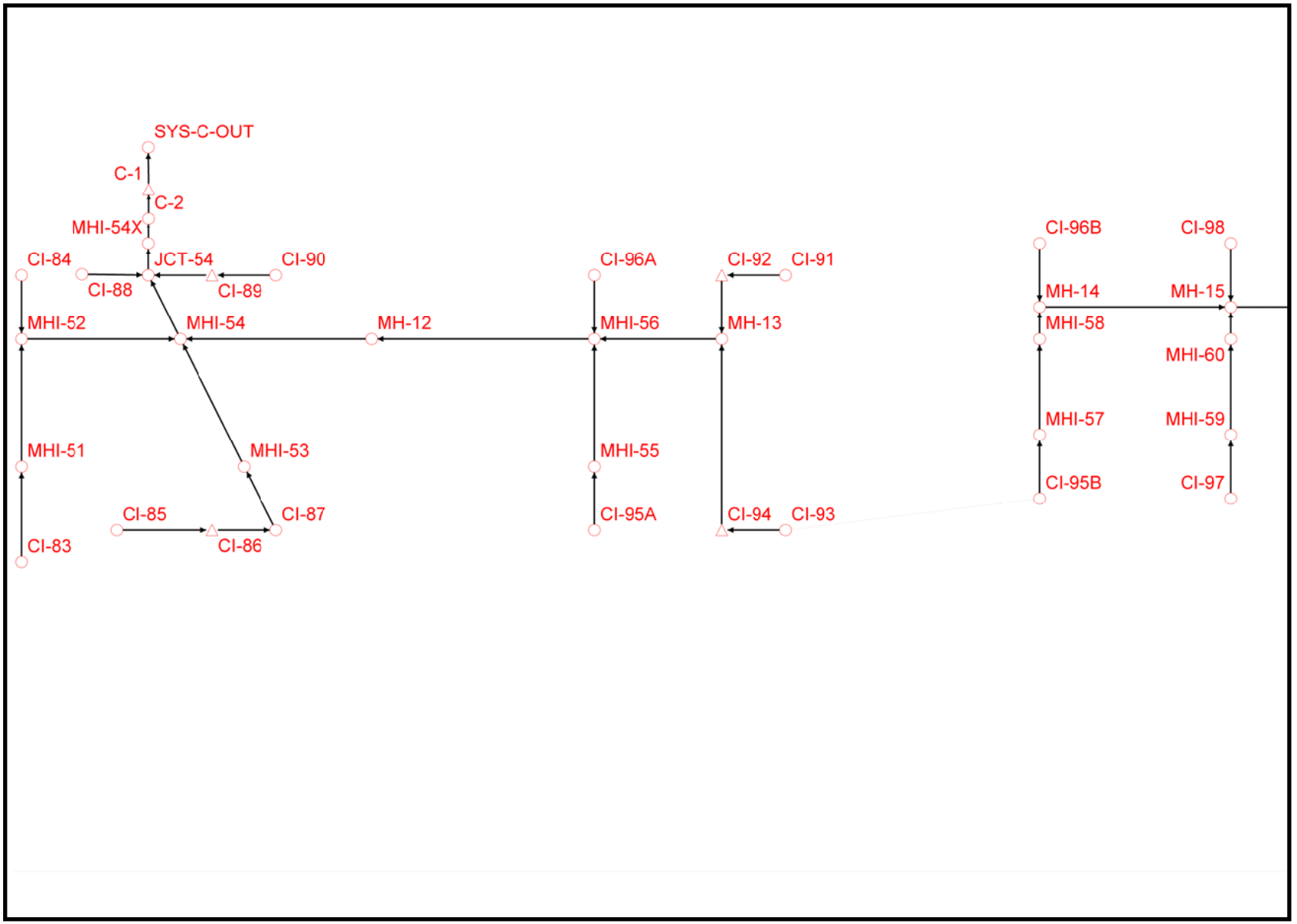
OUTFALLS 11, 12, 13, 14, 15, & 16
EXISTING CONDITIONS SWMM LAYOUT



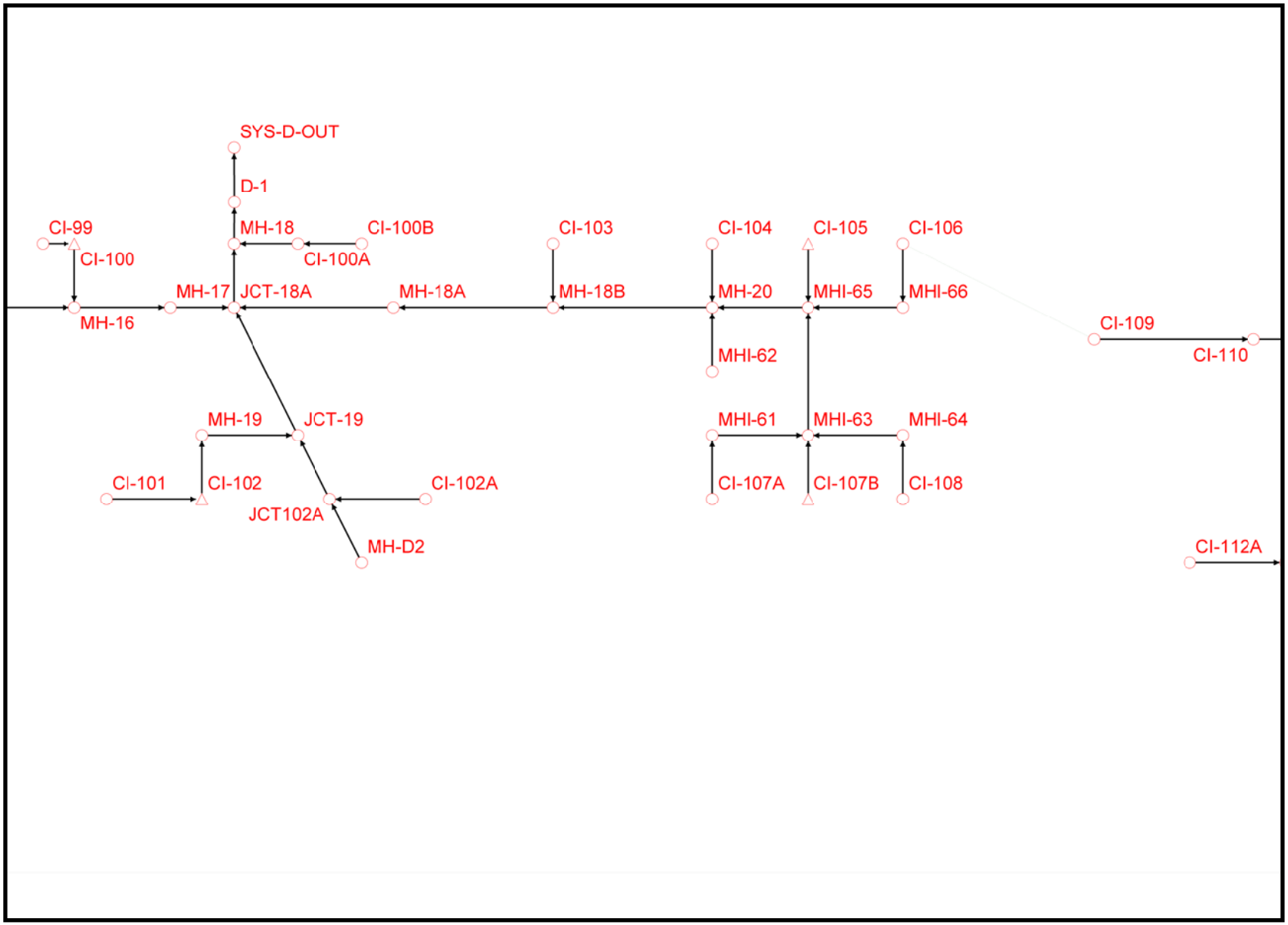
OUTFALLS 11, 12, 13, 14, 15, & 16
EXISTING CONDITIONS SWMM LAYOUT



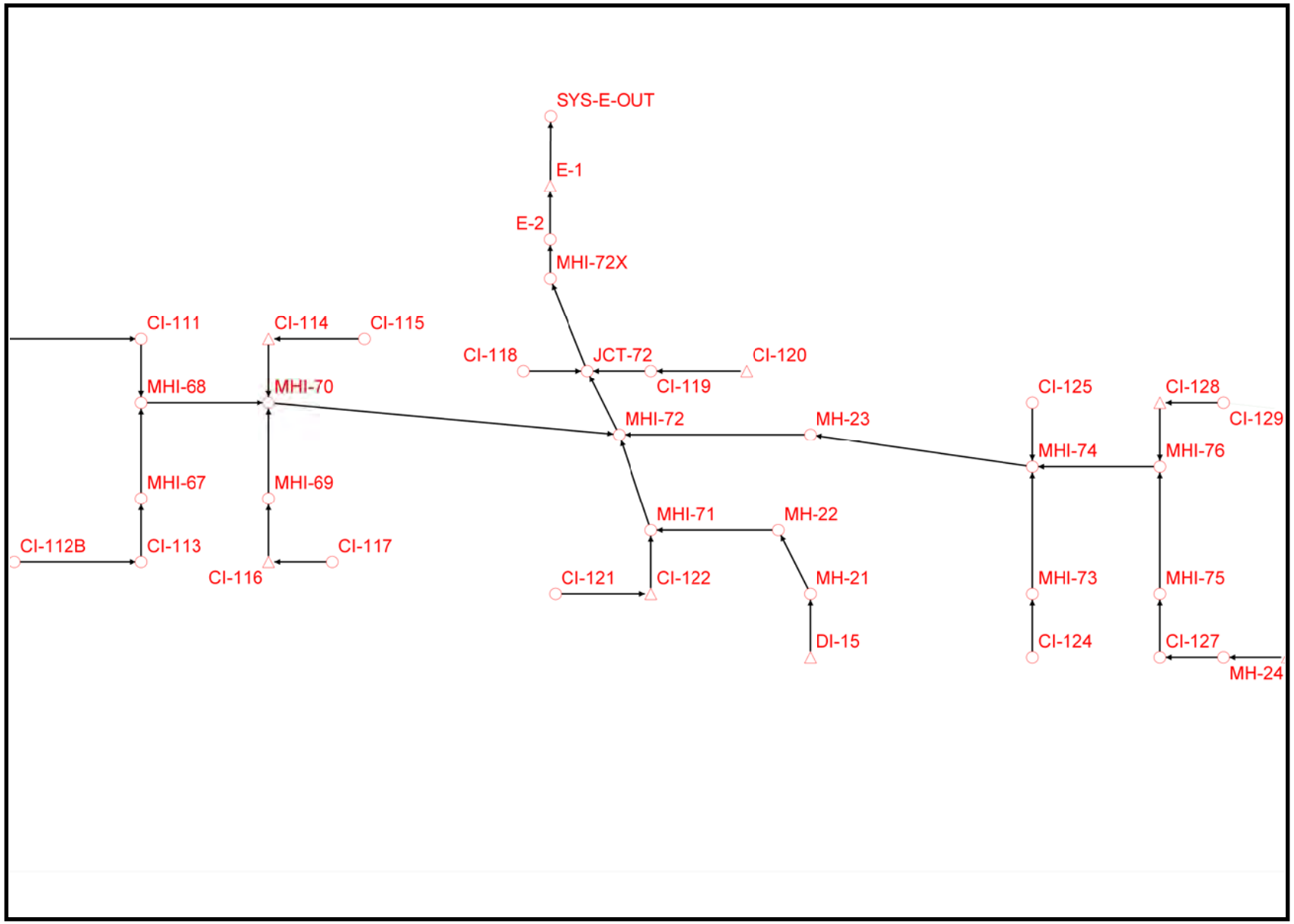
OUTFALLS 11, 12, 13, 14, 15, & 16
EXISTING CONDITIONS SWMM LAYOUT



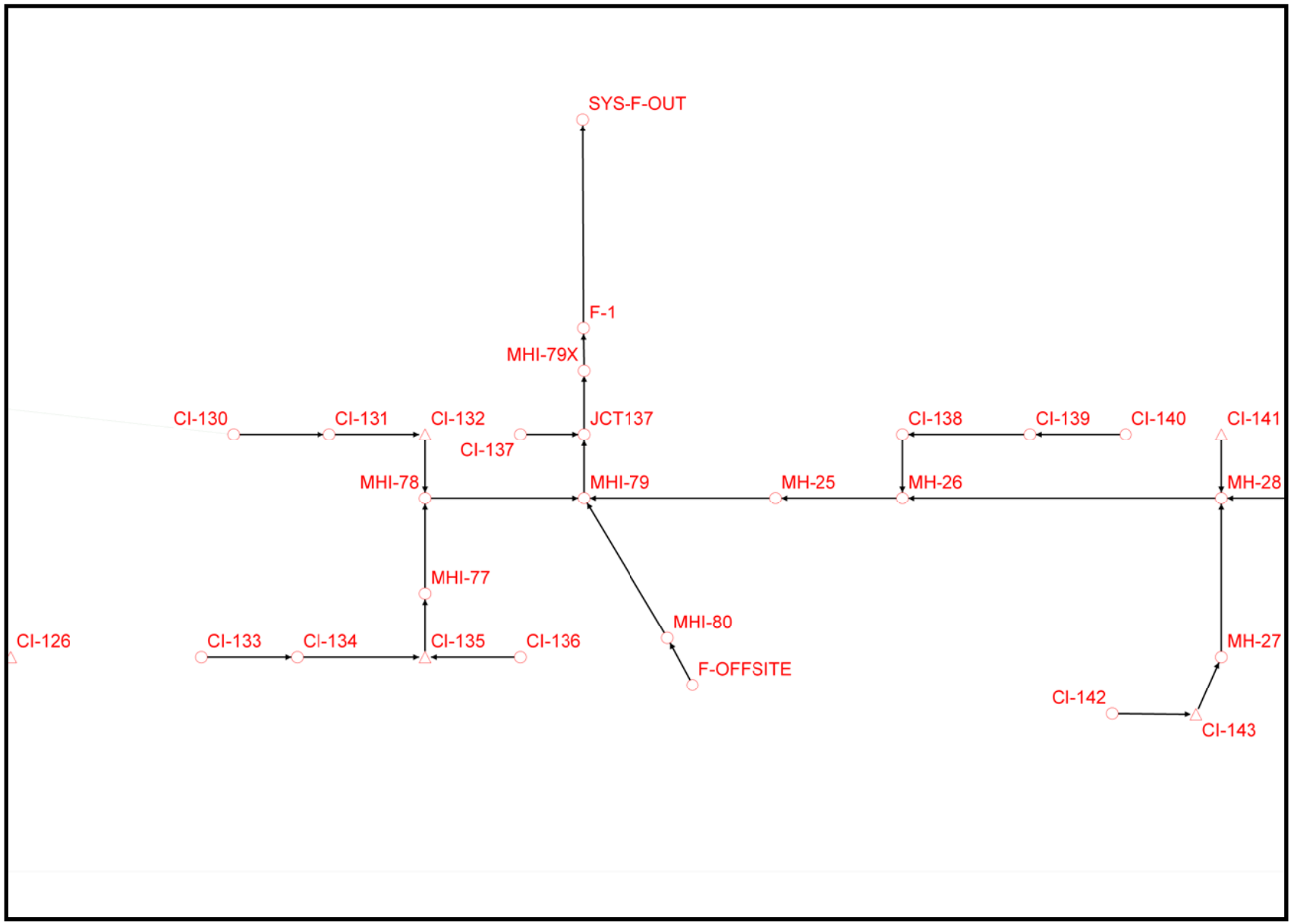
OUTFALLS 11, 12, 13, 14, 15, & 16
EXISTING CONDITIONS SWMM LAYOUT



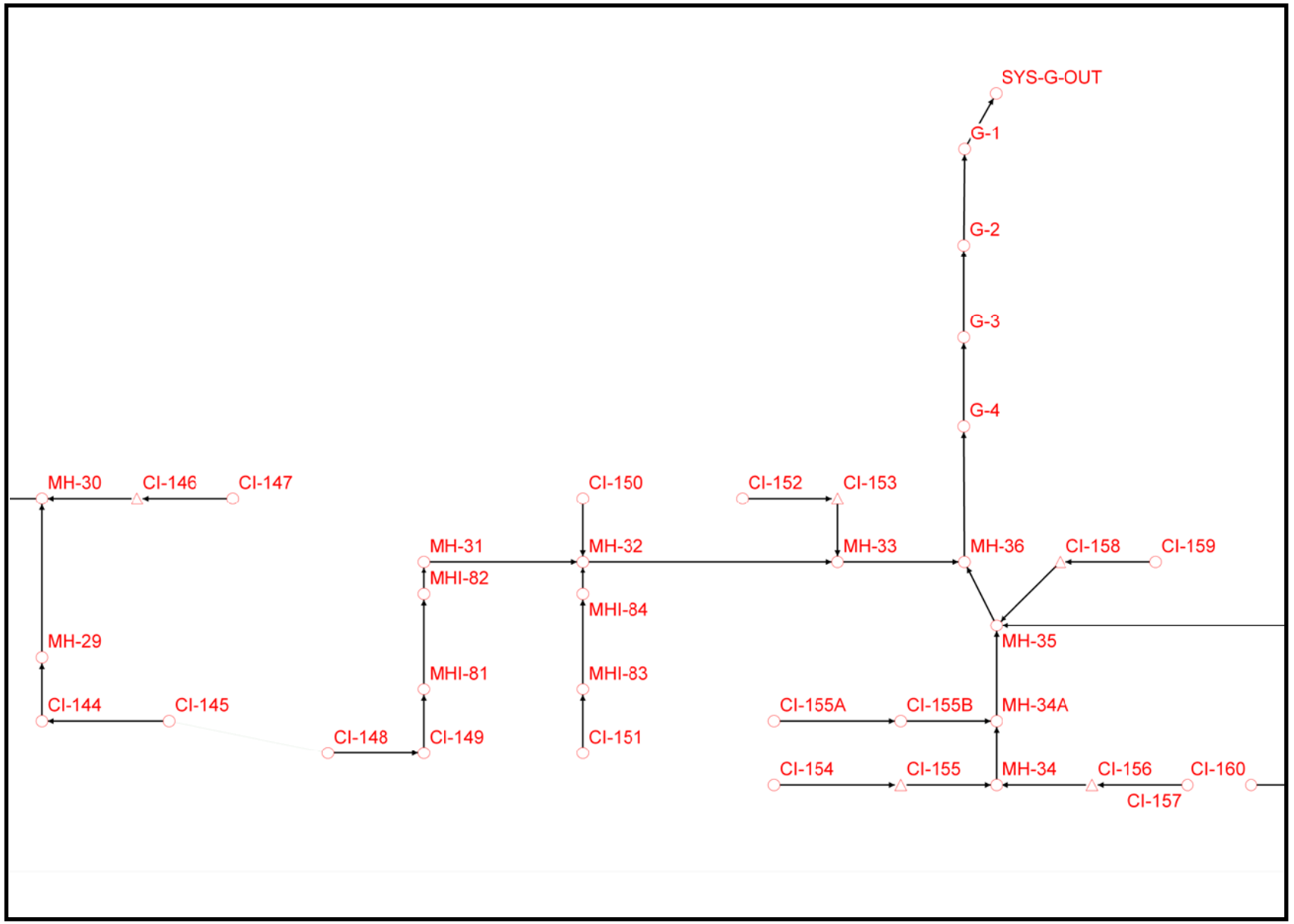
OUTFALLS 11, 12, 13, 14, 15, & 16
EXISTING CONDITIONS SWMM LAYOUT



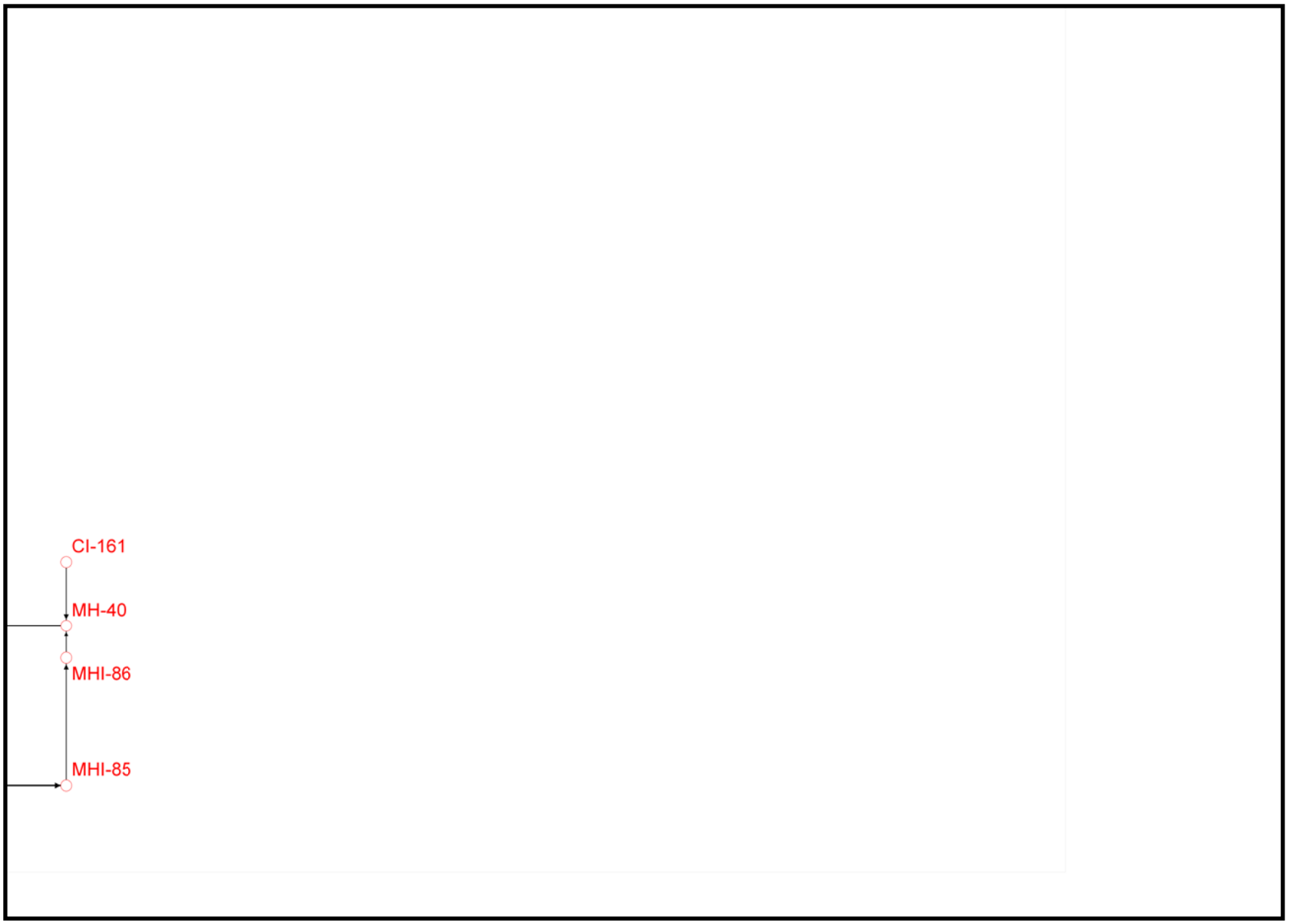
OUTFALLS 11, 12, 13, 14, 15, & 16
EXISTING CONDITIONS SWMM LAYOUT



OUTFALLS 11, 12, 13, 14, 15, & 16
EXISTING CONDITIONS SWMM LAYOUT



OUTFALLS 11, 12, 13, 14, 15, & 16
EXISTING CONDITIONS SWMM LAYOUT



Current Directory: C:\XPS\xpstorm
Engine Name: C:\XPS\xpstorm\SWMMEN~1.EXE

Input File : 9-16\SWMM\Report 6-2011\Existing\US290_SegB_EX_B-G_NS_1(final).XP

```
*================================================*
|                      xpswmm                    |
|     Storm and Wastewater Management Model      |
|           Interface Version: 10.52             |
|              Engine Version: 10.54             |
|================================================|
|                                                |
|                 Developed by                   |
|                                                |
|                 XP Software                    |
|                                                |
|================================================|
|      XP Software       November, 2006          |
|       Data File Version --->    11.9           |
|       Serial Number: 66-1052-0602              |
|                 H & H Resources                |
*================================================*
```

Engine Name: C:\XPS\xpstorm\SWMMEN~1.EXE

```
*================================================*
|       Input and Output file names by Layer     |
*================================================*
```

Input File to Layer # 1 JOT.US
Output File to Layer # 1 JOT.US

```
*============================================================*
|   Special command line arguments in XP-SWMM2000. This     |
|   now includes program defaults. $Keywords are the program|
|   defaults.  Other Keywords are from the SWMMCOM.CFG file.|
|   or the command line or any cfg file on the command line.|
|   Examples include these in the file xpswm.bat under the   |
|   section :solve or in the windows version XPSWMM32 in the|
|   file solve.bat                                           |
|                                                            |
|   Note: the cfg file should be in the subdirectory swmxp   |
|         or defined by the set variable in the xpswm.bat    |
|         file.  Some examples of the command lines possible|
|         are shown below:                                   |
|                                                            |
|   swmmd swmmcom.cfg                                        |
|   swmmd my.cfg                                             |
|   swmmd nokeys nconv5 perv extranwq                        |
*============================================================*
```

$powerstation	0.0000	1	2
$perv	0.0000	0	4
$oldegg	0.0000	0	7
$as	0.0000	0	11
$noflat	0.0000	0	21
$oldomega	0.0000	0	24
$oldvol	0.0000	1	28
$implicit	0.0000	1	29
$oldhot	0.0000	1	31
$oldscs	0.0000	0	33
$flood	0.0000	1	40
$nokeys	0.0000	0	42
$pzero	0.0000	0	55
$oldvol2	0.0000	2	59
$storage2	0.0000	3	62
$oldhot1	0.0000	1	63
$pumpwt	0.0000	1	70
$ecloss	0.0000	1	77
$exout	0.0000	0	97
SPATIAL=0.55	0.5500	5	124
$djref = -1.0	-0.1000	3	143
$weirlen = 50	50.0000	1	153
$oldbnd	0.0000	1	154
$nogrelev	0.0000	1	161
$ncmid	0.0000	0	164
$new_nl_97	0.0000	2	290
$best97	0.0000	1	294
$newbound	0.0000	1	295
$q_tol = 0.01	0.0001	1	316
$new_storage	0.0000	1	322
$old_iteration	0.0000	1	333
MINLEN=10	10.0000	1	346
$review_elevation	0.0000	1	383
$use_half_volume	0.0000	1	385
$min_ts = 0.5	0.5000	1	407
$design_restart = on	0.0000	1	412
$zero_value=1.e-05	0.0000	1	415
$relax_depth = on	0.0000	1	427
$saveallpts = on	0.0000	1	434

```
*============================================================*
| Parameter Values on the Tapes Common Block.These are the   |
| values read from the data file and dynamically allocated   |
| by the model for this simulation.                          |
*============================================================*
```

Number of Subcatchments in the Runoff Block (NW)....	0
Number of Channel/Pipes in the Runoff Block (NG)....	0
Runoff Water quality constituents (NRQ).....	0
Runoff Land Uses per Subcatchment (NLU).....	0
Number of Elements in the Transport Block (NET).....	0
Number of Storage Junctions in Transport (NTSE).....	0
Number of Input Hydrographs in Transport (NTH).....	0
Number of Elements in the Extran Block (NEE).....	222
Number of Groundwater Subcatchments in Runoff (NGW).	0
Number of Interface locations for all Blocks (NIE)..	222
Number of Pumps in Extran (NEP).....	0
Number of Orifices in Extran (NEO).....	0
Number of Tide Gates/Free Outfalls in Extran (NTG)..	6
Number of Extran Weirs (NEW).....	0
Number of scs hydrograph points.....	1
Number of Extran printout locations (NPO).....	0
Number of Tide elements in Extran (NTE).....	6
Number of Natural channels (NNC).....	14
Number of Storage junctions in Extran (NVSE).....	31
Number of Time history data points in Extran(NTVAL).	300
Number of Variable storage elements in Extran (NVST)	6
Number of Input Hydrographs in Extran (NEH).....	161
Number of Particle sizes in Transport Block (NPS)...	0
Number of User defined conduits (NHW).....	222
Number of Connecting conduits in Extran (NECC).....	20
Number of Upstream elements in Transport (NTCC).....	10
Number of Storage/treatment plants (NSTU).....	1

```
 Number of Values for R1 lines in Transport (NR1)....     0
 Number of Nodes to be allowed for (NNOD)............   222
 Number of Plugs in a Storage Treatment Unit.........     1


####################################################
#    Entry made to the HYDRAULIC Layer(Block) of SWMM #
#    Last Updated June,2005 by XP Software          #

    US 290 / Hempstead Highway Corridor - From W. Little York to Hollister
    Drainage Impact & Mitigation Study - Existing Conditions -Sys B-G - 100


*==========================================================*
|        HYDRAULICS TABLES IN THE OUTPUT FILE              |
|  These are the more important tables in the output file.  |
|  You can use your editor to find the table numbers,       |
|  for example: search for Table E20 to check continuity.   |
|  This output file can be imported into a Word Processor   |
|  and printed on US letter or A4 paper using portrait      |
|  mode, courier font, a size of 8 pt. and margins of 0.75  |
|                                                           |
| Table E1   - Basic Conduit Data                           |
| Table E2   - Conduit Factor Data                          |
| Table E3a  - Junction Data                                |
| Table E3b  - Junction Data                                |
| Table E4   - Conduit Connectivity Data                    |
| Table E4a  - Dry Weather Flow Data                        |
| Table E4b  - Real Time Control Data                       |
| Table E5   - Junction Time Step Limitation Summary        |
| Table E5a  - Conduit Explicit Condition Summary           |
| Table E6   - Final Model Condition                        |
| Table E7   - Iteration Summary                            |
| Table E8   - Junction Time Step Limitation Summary        |
| Table E9   - Junction  Summary  Statistics                |
| Table E10  - Conduit   Summary  Statistics                |
| Table E11  - Area assumptions used in the analysis        |
| Table E12  - Mean conduit information                     |
| Table E13  - Channel losses(H) and culvert info           |
| Table E13a - Culvert Analysis Classification              |
| Table E14  - Natural Channel Overbank Flow Information    |
| Table E14a - Natural Channel Encroachment Information     |
| Table E14b - Floodplain Mapping                           |
| Table E15  - Spreadsheet Info List                        |
| Table E15a - Spreadsheet Reach List                       |
| Table E16  - New Conduit Output Section                   |
| Table E17  - Pump Operation                               |
| Table E18  - Junction Continuity Error                    |
| Table E19  - Junction Inflow & Outflow Listing            |
| Table E20  - Junction Flooding and Volume List            |
| Table E21  - Continuity balance at simulation end         |
| Table E22  - Model Judgement Section                      |
*==========================================================*

Time Control from Hydraulics Job Control
Year.........    1995 Month.......       1
Day..........       1 Hour........       0
Minute.......       0 Second......       0


Control information for simulation
----------------------------------

Integration cycles..................    172800
Length of integration step is......      1.00 seconds
Simulation length...................     48.00 hours
Do not create equiv. pipes(NEQUAL).         0
Use U.S. customary units for I/O...         0
Printing starts in cycle...........         1
Intermediate printout intervals of.       500 cycles
Intermediate printout intervals of.      8.33 minutes
Summary printout intervals of......       500 cycles
Summary printout time interval of..      8.33 minutes
Hot start file parameter (REDO)....         0
Initial time.......................      0.00 hours

Iteration variables: Flow Tolerance.   0.00010
                     Head Tolerance.   0.00010
    Minimum depth (m or ft).........   0.00001
    Underrelaxation parameter.......   0.85000
    Time weighting parameter........   0.85000
    Conduit roughness factor........   1.00000
    Flow adjustment factor..........   1.00000
    Initial Condition Smoothing.....         0
    Courant Time Step Factor........   1.00000
    Default Expansion/Contraction K.   0.00000
    Default Entrance/Exit K.........   0.00000
    Routing Method..................   Dynamic Wave
Default surface area of junctions...     12.57 square feet.
Minimum Junction/Conduit Depth......   0.00001 feet.
Ponding Area Coefficient............   5000.00
Ponding Area Exponent...............    1.0000
Minimum Orifice Length..............    500.00 feet.
NJSW input hydrograph junctions.....   161
     or user defined hydrographs....

        Natural Cross-Section information for Channel L-MHI-72X
        =======================================================
         Cross-Section ID (from X1 card) :     1.0 Channel sequence number :     1

  Left Overbank Length   :     10.0 ft               Maximum Elevation        :    86.73 ft.
  Main Channel Length    :     10.0 ft               Maximum Depth            :    12.77 ft.
  Right Overbank Length  :     10.0 ft               Maximum Section Area     : 447.7754 ft^2
                                                     Maximum hydraulic radius :     4.79 ft.
  Manning N :      0.050  to Station         127.4    Max topwidth             :    87.71 ft.
    "    "  :      0.040  in main Channel             Maximum Wetted Perimeter : 9.34E+01 ft
    "    "  :      0.050  Beyond station     183.0    Max left bank area       :    18.94 ft^2
                                                     Max right bank area      :     2.04 ft^2
  Allowable Encroachment Depth :    0.00 ft           Max center channel area  : 426.7920 ft^2

        Natural Cross-Section information for Channel L-C-2
        ===================================================
         Cross-Section ID (from X1 card) :     2.0 Channel sequence number :     2

  Left Overbank Length   :     35.0 ft               Maximum Elevation        :    90.32 ft.
  Main Channel Length    :     35.0 ft               Maximum Depth            :    12.44 ft.
  Right Overbank Length  :     35.0 ft               Maximum Section Area     : 428.2263 ft^2
                                                     Maximum hydraulic radius :     2.49 ft.
  Manning N :      0.050  to Station         210.9    Max topwidth             :   166.12 ft.
    "    "  :      0.040  in main Channel             Maximum Wetted Perimeter : 1.72E+02 ft
    "    "  :      0.050  Beyond station     266.1    Max left bank area       :    20.02 ft^2
                                                     Max right bank area      :     0.00 ft^2
  Allowable Encroachment Depth :    0.00 ft           Max center channel area  : 408.2030 ft^2

        Natural Cross-Section information for Channel L-F-1
        ===================================================
         Cross-Section ID (from X1 card) :     3.0 Channel sequence number :     3
```

```
Left Overbank Length   :    855.0 ft               Maximum Elevation        :    86.63 ft.
Main Channel Length    :    855.0 ft               Maximum Depth            :    12.51 ft.
Right Overbank Length  :    855.0 ft               Maximum Section Area     : 583.7265 ft^2
                                                   Maximum hydraulic radius :     4.25 ft.
Manning N :      0.040  to Station         113.4    Max topwidth             :   132.70 ft.
  "    "  :      0.035  in main Channel             Maximum Wetted Perimeter : 1.37E+02 ft
  "    "  :      0.040  Beyond station     176.9    Max left bank area       :     5.15 ft^2
                                                   Max right bank area      :    87.62 ft^2
Allowable Encroachment Depth :    0.00 ft           Max center channel area  : 490.9580 ft^2

      Natural Cross-Section information for Channel L-B-3
      ===================================================
       Cross-Section ID (from X1 card) :     4.0 Channel sequence number :     4

Left Overbank Length   :     89.0 ft               Maximum Elevation        :    91.96 ft.
Main Channel Length    :     89.0 ft               Maximum Depth            :     9.78 ft.
Right Overbank Length  :     89.0 ft               Maximum Section Area     : 441.0068 ft^2
                                                   Maximum hydraulic radius :     2.38 ft.
Manning N :      0.050  to Station         169.2    Max topwidth             :   182.96 ft.
  "    "  :      0.040  in main Channel             Maximum Wetted Perimeter : 1.85E+02 ft
  "    "  :      0.050  Beyond station     252.9    Max left bank area       :    21.85 ft^2
                                                   Max right bank area      :    28.82 ft^2
Allowable Encroachment Depth :    0.00 ft           Max center channel area  : 390.3326 ft^2

      Natural Cross-Section information for Channel L-B-4
      ===================================================
       Cross-Section ID (from X1 card) :     5.0 Channel sequence number :     5

Left Overbank Length   :    314.0 ft               Maximum Elevation        :    89.14 ft.
Main Channel Length    :    314.0 ft               Maximum Depth            :     6.80 ft.
Right Overbank Length  :    314.0 ft               Maximum Section Area     : 296.3106 ft^2
                                                   Maximum hydraulic radius :     3.99 ft.
Manning N :      0.050  to Station         205.7    Max topwidth             :    71.73 ft.
  "    "  :      0.040  in main Channel             Maximum Wetted Perimeter : 7.42E+01 ft
  "    "  :      0.050  Beyond station     288.5    Max left bank area       :     0.00 ft^2
                                                   Max right bank area      :     0.00 ft^2
Allowable Encroachment Depth :    0.00 ft           Max center channel area  : 296.3106 ft^2

      Natural Cross-Section information for Channel L-B-5
      ===================================================
       Cross-Section ID (from X1 card) :     6.0 Channel sequence number :     6

Left Overbank Length   :     60.0 ft               Maximum Elevation        :    91.66 ft.
Main Channel Length    :     60.0 ft               Maximum Depth            :     8.46 ft.
Right Overbank Length  :     60.0 ft               Maximum Section Area     : 472.8690 ft^2
                                                   Maximum hydraulic radius :     3.38 ft.
Manning N :      0.050  to Station         126.5    Max topwidth             :   135.31 ft.
  "    "  :      0.040  in main Channel             Maximum Wetted Perimeter : 1.40E+02 ft
  "    "  :      0.050  Beyond station     203.7    Max left bank area       :     6.47 ft^2
                                                   Max right bank area      :     9.51 ft^2
Allowable Encroachment Depth :    0.00 ft           Max center channel area  : 456.8970 ft^2

      Natural Cross-Section information for Channel L-B-6
      ===================================================
       Cross-Section ID (from X1 card) :     7.0 Channel sequence number :     7

Left Overbank Length   :    238.0 ft               Maximum Elevation        :    92.48 ft.
Main Channel Length    :    238.0 ft               Maximum Depth            :     9.86 ft.
Right Overbank Length  :    238.0 ft               Maximum Section Area     : 249.2779 ft^2
                                                   Maximum hydraulic radius :     2.54 ft.
Manning N :      0.050  to Station         107.6    Max topwidth             :    92.97 ft.
  "    "  :      0.040  in main Channel             Maximum Wetted Perimeter : 9.83E+01 ft
  "    "  :      0.050  Beyond station     137.3    Max left bank area       :     2.14 ft^2
                                                   Max right bank area      :    70.33 ft^2
Allowable Encroachment Depth :    0.00 ft           Max center channel area  : 176.8044 ft^2

      Natural Cross-Section information for Channel L-B-1
      ===================================================
       Cross-Section ID (from X1 card) :     8.0 Channel sequence number :     8

Left Overbank Length   :    330.0 ft               Maximum Elevation        :    90.50 ft.
Main Channel Length    :    330.0 ft               Maximum Depth            :    11.24 ft.
Right Overbank Length  :    330.0 ft               Maximum Section Area     : 327.9292 ft^2
                                                   Maximum hydraulic radius :     1.73 ft.
Manning N :      0.050  to Station         144.3    Max topwidth             :   183.69 ft.
  "    "  :      0.040  in main Channel             Maximum Wetted Perimeter : 1.89E+02 ft
  "    "  :      0.050  Beyond station     252.8    Max left bank area       :     2.45 ft^2
                                                   Max right bank area      :     5.72 ft^2
Allowable Encroachment Depth :    0.00 ft           Max center channel area  : 319.7546 ft^2

      Natural Cross-Section information for Channel L-B-2
      ===================================================
       Cross-Section ID (from X1 card) :     9.0 Channel sequence number :     9

Left Overbank Length   :    200.0 ft               Maximum Elevation        :    92.99 ft.
Main Channel Length    :    168.0 ft               Maximum Depth            :    11.78 ft.
Right Overbank Length  :    133.0 ft               Maximum Section Area     : 664.4975 ft^2
                                                   Maximum hydraulic radius :     3.43 ft.
Manning N :      0.050  to Station         129.1    Max topwidth             :   188.92 ft.
  "    "  :      0.040  in main Channel             Maximum Wetted Perimeter : 1.94E+02 ft
  "    "  :      0.050  Beyond station     219.9    Max left bank area       :    20.62 ft^2
                                                   Max right bank area      :   236.66 ft^2
Allowable Encroachment Depth :    0.00 ft           Max center channel area  : 407.2215 ft^2

      Natural Cross-Section information for Channel L-MHI-54X
      ===================================================
       Cross-Section ID (from X1 card) :    10.0 Channel sequence number :    10

Left Overbank Length   :     10.0 ft               Maximum Elevation        :    90.32 ft.
Main Channel Length    :     10.0 ft               Maximum Depth            :    12.44 ft.
Right Overbank Length  :     10.0 ft               Maximum Section Area     : 428.2263 ft^2
                                                   Maximum hydraulic radius :     2.49 ft.
Manning N :      0.050  to Station         210.9    Max topwidth             :   166.12 ft.
  "    "  :      0.040  in main Channel             Maximum Wetted Perimeter : 1.72E+02 ft
  "    "  :      0.050  Beyond station     266.1    Max left bank area       :    20.02 ft^2
                                                   Max right bank area      :     0.00 ft^2
Allowable Encroachment Depth :    0.00 ft           Max center channel area  : 408.2030 ft^2

      Natural Cross-Section information for Channel L-C-1
      ===================================================
       Cross-Section ID (from X1 card) :    11.0 Channel sequence number :    11

Left Overbank Length   :    266.0 ft               Maximum Elevation        :    90.32 ft.
Main Channel Length    :    266.0 ft               Maximum Depth            :     7.88 ft.
Right Overbank Length  :    266.0 ft               Maximum Section Area     : 271.9376 ft^2
                                                   Maximum hydraulic radius :     1.64 ft.
Manning N :      0.050  to Station         210.9    Max topwidth             :   163.24 ft.
  "    "  :      0.040  in main Channel             Maximum Wetted Perimeter : 1.65E+02 ft
  "    "  :      0.050  Beyond station     260.3    Max left bank area       :    21.52 ft^2
                                                   Max right bank area      :     3.18 ft^2
Allowable Encroachment Depth :    0.00 ft           Max center channel area  : 247.2338 ft^2

      Natural Cross-Section information for Channel L-E-2
      ===================================================
       Cross-Section ID (from X1 card) :    12.0 Channel sequence number :    12

Left Overbank Length   :     65.0 ft               Maximum Elevation        :    86.73 ft.
Main Channel Length    :     65.0 ft               Maximum Depth            :    12.77 ft.
```

```
 Right Overbank Length  :     65.0 ft                Maximum Section Area     : 447.7754 ft^2
                                                     Maximum hydraulic radius :     4.79 ft.
 Manning N :      0.050  to Station         127.4    Max topwidth             :    87.71 ft.
   "    "  :      0.040  in main Channel             Maximum Wetted Perimeter : 9.34E+01 ft
   "    "  :      0.050  Beyond station     183.0    Max left bank area       :    18.94 ft^2
                                                     Max right bank area      :     2.04 ft^2
 Allowable Encroachment Depth :    0.00 ft           Max center channel area  : 426.7920 ft^2

       Natural Cross-Section information for Channel L-E-1
       ===================================================
        Cross-Section ID (from X1 card) :    13.0 Channel sequence number :    13

 Left Overbank Length   :    320.0 ft                Maximum Elevation        :    86.73 ft.
 Main Channel Length    :    320.0 ft                Maximum Depth            :     8.41 ft.
 Right Overbank Length  :    320.0 ft                Maximum Section Area     : 277.8154 ft^2
                                                     Maximum hydraulic radius :     3.09 ft.
 Manning N :      0.050  to Station         127.4    Max topwidth             :    87.71 ft.
   "    "  :      0.040  in main Channel             Maximum Wetted Perimeter : 8.98E+01 ft
   "    "  :      0.050  Beyond station     181.9    Max left bank area       :    20.20 ft^2
                                                     Max right bank area      :     2.05 ft^2
 Allowable Encroachment Depth :    0.00 ft           Max center channel area  : 255.5662 ft^2

       Natural Cross-Section information for Channel L-MHI-79X
       =======================================================
        Cross-Section ID (from X1 card) :    14.0 Channel sequence number :    14

 Left Overbank Length   :     10.0 ft                Maximum Elevation        :    86.63 ft.
 Main Channel Length    :     10.0 ft                Maximum Depth            :    14.90 ft.
 Right Overbank Length  :     10.0 ft                Maximum Section Area     : 697.3224 ft^2
                                                     Maximum hydraulic radius :     5.01 ft.
 Manning N :      0.050  to Station         116.7    Max topwidth             :   132.70 ft.
   "    "  :      0.040  in main Channel             Maximum Wetted Perimeter : 1.39E+02 ft
   "    "  :      0.050  Beyond station     178.7    Max left bank area       :     9.76 ft^2
                                                     Max right bank area      :    87.56 ft^2
 Allowable Encroachment Depth :    0.00 ft           Max center channel area  : 600.0024 ft^2
```

Table E1 - Conduit Data

Inp Num	Conduit Name	Length (ft)	Conduit Class	Area (ft^2)	Manning Coef.	Max Width (ft)	Depth (ft)	Trapezoid Side Slopes
1	L_CI-67	47.0000	Circular	4.9087	0.0130	2.5000	2.5000	
2	L_MHI-41	204.0000	Circular	4.9087	0.0130	2.5000	2.5000	
3	L_CI-68	52.0000	Circular	1.7671	0.0130	1.5000	1.5000	
4	L_MHI-42	365.0000	Circular	7.0686	0.0130	3.0000	3.0000	
5	L_CI-71	221.0000	Circular	1.7671	0.0130	1.5000	1.5000	
6	L_CI-72	55.0000	Circular	3.1416	0.0130	2.0000	2.0000	
7	L_CI-69	240.0000	Circular	1.7671	0.0130	1.5000	1.5000	
8	L_CI-70	49.0000	Circular	3.1416	0.0130	2.0000	2.0000	
9	L_MHI-43	183.0000	Circular	4.9087	0.0130	2.5000	2.5000	
10	L_MHI-44	301.0000	Circular	12.5664	0.0130	4.0000	4.0000	
11	L_CI-73	232.0000	Circular	1.7671	0.0130	1.5000	1.5000	
12	L_CI-74	50.0000	Circular	1.7671	0.0130	1.5000	1.5000	
13	L_MHI-45	550.0000	Circular	12.5664	0.0130	4.0000	4.0000	
14	L_CI-77A	150.0000	Circular	1.7671	0.0130	1.5000	1.5000	
15	L_CI-77B	148.0000	Circular	3.1416	0.0130	2.0000	2.0000	
16	L_CI-78	36.0000	Circular	3.1416	0.0130	2.0000	2.0000	
17	L_CI-73A	102.0000	Circular	1.7671	0.0130	1.5000	1.5000	
18	L_CI-76	44.0000	Circular	3.1416	0.0130	2.0000	2.0000	
19	L_MHI-46	252.0000	Circular	4.9087	0.0130	2.5000	2.5000	
20	L_MHI-47	149.0000	Circular	15.9043	0.0130	4.5000	4.5000	
21	L_CI-79	100.0000	Circular	1.7671	0.0130	1.5000	1.5000	
22	L_CI-80	50.0000	Circular	3.1416	0.0130	2.0000	2.0000	
23	L_CI-81	51.0000	Circular	1.7671	0.0130	1.5000	1.5000	
24	L_MHI-48	200.0000	Circular	4.9087	0.0130	2.5000	2.5000	
25	L_MHI-49	180.0000	Circular	7.0686	0.0130	3.0000	3.0000	
26	L_CI-82	51.0000	Circular	1.7671	0.0130	1.5000	1.5000	
27	L_MHI-50	249.0000	Circular	12.5664	0.0130	4.0000	4.0000	
28	L_CI-83	182.0000	Circular	3.1416	0.0130	2.0000	2.0000	
29	L_CI-84	50.0000	Circular	1.7671	0.0130	1.5000	1.5000	
30	L_MHI-52	274.0000	Circular	4.9087	0.0130	2.5000	2.5000	
31	L_CI-85	150.0000	Circular	1.7671	0.0130	1.5000	1.5000	
32	L_CI-86	109.0000	Circular	3.1416	0.0130	2.0000	2.0000	
33	L_CI-87	55.0000	Circular	15.9043	0.0130	4.5000	4.5000	
34	L_MHI-53	213.0000	Circular	15.9043	0.0130	4.5000	4.5000	
35	L_CI-91	100.0000	Circular	1.7671	0.0130	1.5000	1.5000	
36	L_CI-92	32.0000	Circular	3.1416	0.0130	2.0000	2.0000	
37	L_CI-93	100.0000	Circular	9.6211	0.0130	3.5000	3.5000	
38	L_CI-94	251.0000	Circular	12.5664	0.0130	4.0000	4.0000	
39	L_MH-13	200.0000	Circular	12.5664	0.0130	4.0000	4.0000	
40	L_CI-96A	41.0000	Circular	1.7671	0.0130	1.5000	1.5000	
41	L_CI-95A	38.0000	Circular	1.7671	0.0130	1.5000	1.5000	
42	L_MHI-55	203.0000	Circular	3.1416	0.0130	2.0000	2.0000	
43	L_MHI-56	301.0000	Circular	12.5664	0.0130	4.0000	4.0000	
44	L_MHI-54	57.0000	Circular	33.1831	0.0130	6.5000	6.5000	
45	L_CI-95B	50.0000	Circular	1.7671	0.0130	1.5000	1.5000	
46	L_MHI-57	184.0000	Circular	3.1416	0.0130	2.0000	2.0000	
47	L_MHI-58	21.0000	Circular	3.1416	0.0130	2.0000	2.0000	
48	L_CI-96B	29.0000	Circular	1.7671	0.0130	1.5000	1.5000	
49	L_MH-14	301.0000	Circular	4.9087	0.0130	2.5000	2.5000	
50	L_CI-98	29.0000	Circular	1.7671	0.0130	1.5000	1.5000	
51	L_CI-97	50.0000	Circular	1.7671	0.0130	1.5000	1.5000	
52	L_MHI-59	182.0000	Circular	4.9087	0.0130	2.5000	2.5000	
53	L_MHI-60	21.0000	Circular	4.9087	0.0130	2.5000	2.5000	
54	L_MH-15	198.0000	Circular	7.0686	0.0130	3.0000	3.0000	
55	L_CI-99	50.0000	Circular	1.7671	0.0130	1.5000	1.5000	
56	L_CI-100	29.0000	Circular	1.7671	0.0130	1.5000	1.5000	
57	L_MH-16	140.0000	Circular	9.6211	0.0130	3.5000	3.5000	
58	L_MH-17	114.0000	Circular	9.6211	0.0130	3.5000	3.5000	
59	L_CI-101	135.0000	Circular	1.7671	0.0130	1.5000	1.5000	
60	L_CI-102	41.0000	Circular	4.9087	0.0130	2.5000	2.5000	
61	L_MH-19	174.0000	Circular	4.9087	0.0130	2.5000	2.5000	
62	L_CI-106	50.0000	Circular	1.7671	0.0130	1.5000	1.5000	
63	L_MHI-66	200.0000	Circular	3.1416	0.0130	2.0000	2.0000	
64	L_CI-105	50.0000	Circular	1.7671	0.0130	1.5000	1.5000	
65	L_CI-108	61.0000	Circular	1.7671	0.0130	1.5000	1.5000	
66	L_MHI-64	153.0000	Circular	3.1416	0.0130	2.0000	2.0000	
67	L_CI-107B	50.0000	Circular	1.7671	0.0130	1.5000	1.5000	
68	L_CI-107A	50.0000	Circular	1.7671	0.0130	1.5000	1.5000	
69	L_MHI-61	100.0000	Circular	3.1416	0.0130	2.0000	2.0000	
70	L_MHI-63	182.0000	Circular	7.0686	0.0130	3.0000	3.0000	
71	L_MHI-65	102.0000	Circular	9.6211	0.0130	3.5000	3.5000	
72	L_MHI-62	21.0000	Circular	3.1416	0.0130	2.0000	2.0000	
73	L_CI-104	29.0000	Circular	1.7671	0.0130	1.5000	1.5000	
74	L_MH-20	251.0000	Circular	9.6211	0.0130	3.5000	3.5000	
75	L_CI-103	29.0000	Circular	1.7671	0.0130	1.5000	1.5000	
76	L_MH-18B	217.0000	Circular	9.6211	0.0130	3.5000	3.5000	
77	L_MH-18A	281.0000	Circular	9.6211	0.0130	3.5000	3.5000	
78	L_CI-109	250.0000	Circular	1.7671	0.0130	1.5000	1.5000	
79	L_CI-110	250.0000	Circular	3.1416	0.0130	2.0000	2.0000	
80	L_CI-111	45.0000	Circular	3.1416	0.0130	2.0000	2.0000	
81	L_CI-112A	140.0000	Circular	1.7671	0.0130	1.5000	1.5000	
82	L_CI-112B	184.0000	Circular	7.0686	0.0130	3.0000	3.0000	
83	L_CI-113	47.0000	Circular	7.0686	0.0130	3.0000	3.0000	
84	L_MHI-67	190.0000	Circular	7.0686	0.0130	3.0000	3.0000	

85	L_MHI-68	202.0000	Circular	9.6211	0.0130	3.5000	3.5000
86	L_CI-114	50.0000	Circular	3.1416	0.0130	2.0000	2.0000
87	L_CI-115	100.0000	Circular	1.7671	0.0130	1.5000	1.5000
88	L_CI-116	47.0000	Circular	3.1416	0.0130	2.0000	2.0000
89	L_CI-117	100.0000	Circular	1.7671	0.0130	1.5000	1.5000
90	L_MHI-69	183.0000	Circular	4.9087	0.0130	2.5000	2.5000
91	L_MHI-70	559.0000	Circular	12.5664	0.0130	4.0000	4.0000
92	L_CI-129	100.0000	Circular	1.7671	0.0130	1.5000	1.5000
93	L_CI-128	47.0000	Circular	3.1416	0.0130	2.0000	2.0000
94	L_CI-127	50.0000	Circular	7.0686	0.0130	3.0000	3.0000
95	L_MHI-75	186.0000	Circular	7.0686	0.0130	3.0000	3.0000
96	L_MHI-76	201.0000	Circular	9.6211	0.0130	3.5000	3.5000
97	L_CI-125	50.0000	Circular	1.7671	0.0130	1.5000	1.5000
98	L_CI-124	50.0000	Circular	1.7671	0.0130	1.5000	1.5000
99	L_MHI-73	182.0000	Circular	3.1416	0.0130	2.0000	2.0000
100	L_MHI-74	350.0000	Circular	12.5664	0.0130	4.0000	4.0000
101	L_MH-23	293.0000	Circular	12.5664	0.0130	4.0000	4.0000
102	L_CI-122	52.0000	Circular	12.5664	0.0130	4.0000	4.0000
103	L_DI-15	21.0000	Circular	1.7671	0.0130	1.5000	1.5000
104	L_MH-21	69.0000	Circular	1.7671	0.0130	1.5000	1.5000
105	L_MH-22	254.0000	Circular	1.7671	0.0130	1.5000	1.5000
106	L_MH-71	186.0000	Circular	12.5664	0.0130	4.0000	4.0000
107	L_MHI-72	60.0000	Circular	33.1831	0.0130	6.5000	6.5000
108	L_CI-130	250.0000	Circular	1.7671	0.0130	1.5000	1.5000
109	L_CI-131	100.0000	Circular	3.1416	0.0130	2.0000	2.0000
110	L_CI-132	61.0000	Circular	4.9087	0.0130	2.5000	2.5000
111	L_CI-133	250.0000	Circular	1.7671	0.0130	1.5000	1.5000
112	L_CI-134	100.0000	Circular	3.1416	0.0130	2.0000	2.0000
113	L_CI-136	150.0000	Circular	1.7671	0.0130	1.5000	1.5000
114	L_CI-135	62.0000	Circular	4.9087	0.0130	2.5000	2.5000
115	L_MHI-77	160.0000	Circular	7.0686	0.0130	3.0000	3.0000
116	L_MHI-78	257.0000	Circular	9.6211	0.0130	3.5000	3.5000
117	L_MHI-80	229.0000	Circular	12.5664	0.0130	4.0000	4.0000
118	L_CI-145	116.0000	Circular	1.7671	0.0130	1.5000	1.5000
119	L_CI-147	150.0000	Circular	1.7671	0.0130	1.5000	1.5000
120	L_MH-29	262.0000	Circular	3.1416	0.0130	2.0000	2.0000
121	L_MH-30	68.0000	Circular	4.9087	0.0130	2.5000	2.5000
122	L_CI-142	178.0000	Circular	1.7671	0.0130	1.5000	1.5000
123	L_CI-143	130.0000	Circular	9.6211	0.0130	3.5000	3.5000
124	L_MH-27	265.0000	Circular	9.6211	0.0130	3.5000	3.5000
125	L_CI-141	39.0000	Circular	1.7671	0.0130	1.5000	1.5000
126	L_MH-28	474.0000	Circular	12.5664	0.0130	4.0000	4.0000
127	L_CI-139	200.0000	Circular	3.1416	0.0130	2.0000	2.0000
128	L_CI-138	29.0000	Circular	3.1416	0.0130	2.0000	2.0000
129	L_MH-26	200.0000	Circular	15.9043	0.0130	4.5000	4.5000
130	L_MH-25	274.0000	Circular	15.9043	0.0130	4.5000	4.5000
131	L_JCT137	49.0000	Circular	19.6350	0.0130	5.0000	5.0000
132	L_CI-148	275.0000	Circular	1.7671	0.0130	1.5000	1.5000
133	L_CI-149	50.0000	Circular	3.1416	0.0130	2.0000	2.0000
134	L_MHI-81A	182.0000	Circular	4.9087	0.0130	2.5000	2.5000
135	L_MHI-82	22.0000	Circular	7.0686	0.0130	3.0000	3.0000
136	L_MH-31	224.0000	Circular	7.0686	0.0130	3.0000	3.0000
137	L_CI-150	29.0000	Circular	1.7671	0.0130	1.5000	1.5000
138	L_CI-151	51.0000	Circular	1.7671	0.0130	1.5000	1.5000
139	L_MHI-83	188.0000	Circular	3.1416	0.0130	2.0000	2.0000
140	L_MHI-84	22.0000	Circular	4.9087	0.0130	2.5000	2.5000
141	L_MH-32	500.0000	Circular	12.5664	0.0130	4.0000	4.0000
142	L_MH-33	140.0000	Circular	12.5664	0.0130	4.0000	4.0000
143	L_CI-152	190.0000	Circular	1.7671	0.0130	1.5000	1.5000
144	L_CI-153	42.0000	Circular	3.1416	0.0130	2.0000	2.0000
145	L_CI-154	170.0000	Circular	1.7671	0.0130	1.5000	1.5000
146	L_CI-155	202.0000	Circular	3.1416	0.0130	2.0000	2.0000
147	L_CI-157	201.0000	Circular	1.7671	0.0130	1.5000	1.5000
148	L_CI-156	42.0000	Circular	3.1416	0.0130	2.0000	2.0000
149	L_MH-34	82.0000	Circular	4.9087	0.0130	2.5000	2.5000
150	L_CI-159	200.0000	Circular	1.7671	0.0130	1.5000	1.5000
151	L_CI-158	35.0000	Circular	3.1416	0.0130	2.0000	2.0000
152	L_CI-160	78.0000	Circular	1.7671	0.0130	1.5000	1.5000
153	L_MHI-85	162.0000	Circular	3.1416	0.0130	2.0000	2.0000
154	L_MHI-86	32.0000	Circular	4.9087	0.0130	2.5000	2.5000
155	L_CI-161	29.0000	Circular	3.1416	0.0130	2.0000	2.0000
156	L_MH-40	529.0000	Circular	7.0686	0.0130	3.0000	3.0000
157	L_MH-35	70.0000	Circular	12.5664	0.0130	4.0000	4.0000
158	L_MH-36	424.0000	Circular	23.7583	0.0130	5.5000	5.5000
159	L_CI-100B	50.0000	Circular	1.7671	0.0130	1.5000	1.5000
160	L_CI-100A	39.0000	Circular	1.7671	0.0130	1.5000	1.5000
161	L_JCT-18A	50.0000	Rectangle	96.0000	0.0130	8.0000	12.0000
162	L_CI-102A	95.0000	Circular	1.7671	0.0130	1.5000	1.5000
163	L_JCT102A	50.0000	Rectangle	96.0000	0.0130	8.0000	12.0000
164	L_CI-118	73.0000	Circular	1.7671	0.0130	1.5000	1.5000
165	L_CI-120	150.0000	Circular	1.7671	0.0130	1.5000	1.5000
166	L_CI-119	78.0000	Circular	3.1416	0.0130	2.0000	2.0000
167	L_JCT-72	57.0000	Circular	33.1831	0.0130	6.5000	6.5000
168	L_CI-126	50.0000	Circular	1.7671	0.0130	1.5000	1.5000
169	L_MH-24	35.0000	Circular	7.0686	0.0130	3.0000	3.0000
170	L_CI-137	107.0000	Circular	1.7671	0.0130	1.5000	1.5000
171	L_CI-144	49.0000	Circular	3.1416	0.0130	2.0000	2.0000
172	L_CI-146	158.0000	Circular	3.1416	0.0130	2.0000	2.0000
173	L_CI-155A	107.0000	Circular	1.7671	0.0130	1.5000	1.5000
174	L_CI-155B	25.0000	Circular	1.7671	0.0130	1.5000	1.5000
175	L_MH-34A	147.0000	Circular	4.9087	0.0130	2.5000	2.5000
176	L_CI-75	100.0000	Circular	1.7671	0.0130	1.5000	1.5000
177	L_CI-78A	34.0000	Circular	1.7671	0.0130	1.5000	1.5000
178	L_JCT-78A	200.0000	Circular	15.9043	0.0130	4.5000	4.5000
179	L_CI-81A	50.0000	Circular	1.7671	0.0130	1.5000	1.5000
180	L_CI-88	95.0000	Circular	1.7671	0.0130	1.5000	1.5000
181	L_CI-90	100.0000	Circular	1.7671	0.0130	1.5000	1.5000
182	L_CI-89	55.0000	Circular	3.1416	0.0130	2.0000	2.0000
183	Link687	50.0000	Circular	1.7671	0.0130	1.5000	1.5000
184	Link688	200.0000	Circular	1.7671	0.0130	1.5000	1.5000
185	L-JCT-54	54.0000	Circular	33.1831	0.0130	6.5000	6.5000
186	Link691	327.0000	Circular	12.5664	0.0130	4.0000	4.0000
187	L-JCT-19	245.0000	Rectangle	96.0000	0.0130	8.0000	12.0000
188	L-MHI-79	49.0000	Circular	19.6350	0.0130	5.0000	5.0000
189	Link700	200.0000	Circular	1.7671	0.0130	1.5000	1.5000
190	Link714	50.0000	Circular	1.7671	0.0130	1.5000	1.5000
191	Link715	99.0000	Circular	1.7671	0.0130	1.5000	1.5000
192	L-MHI-72X	10.0000	Natural	447.7754	0.0400	87.7100	12.7700
193	L-C-2	35.0000	Natural	428.2263	0.0400	166.1200	12.4400
194	L-F-1	855.0000	Natural	583.7265	0.0350	132.7000	12.5100
195	L-B-3	89.0000	Natural	441.0068	0.0400	182.9600	9.7800
196	L-B-4	314.0000	Natural	296.3106	0.0400	71.7252	6.8000
197	L-B-5	60.0000	Natural	472.8690	0.0400	135.3100	8.4600
198	L-MH-D2	150.0000	Rectangle	96.0000	0.0130	8.0000	12.0000
199	L-B-6	238.0000	Natural	249.2779	0.0400	92.9700	9.8600
200	L-B-1	330.0000	Natural	327.9292	0.0400	183.6900	11.2400
201	L-B-2	168.0000	Natural	664.4975	0.0400	188.9200	11.7800
202	L-MHI-54X	10.0000	Natural	428.2263	0.0400	166.1200	12.4400
203	L-C-1	266.0000	Natural	271.9376	0.0400	163.2400	7.8800
204	L-MH-18	100.0000	Rectangle	96.0000	0.0130	8.0000	12.0000
205	L-E-2	65.0000	Natural	447.7754	0.0400	87.7100	12.7700
206	L-E-1	320.0000	Natural	277.8154	0.0400	87.7100	8.4100
207	L-D-1	160.0000	Rectangle	96.0000	0.0130	8.0000	12.0000
208	L-MHI-79X	10.0000	Natural	697.3224	0.0400	132.7000	14.9000
209	L-G-4	477.0000	Circular	28.2743	0.0130	6.0000	6.0000
210	L-G-2	230.0000	Circular	33.1831	0.0130	6.5000	6.5000
211	L-G-1	100.0000	Circular	33.1831	0.0130	6.5000	6.5000
212	L-G-3	518.0000	Circular	33.1831	0.0130	6.5000	6.5000

213	L-F-OFF	70.0000	Circular	12.5664	0.0130	4.0000	4.0000
214	L_MH-B1	115.4700	Circular	7.0686	0.0130	3.0000	3.0000
215	L_MH-B2	148.1700	Circular	7.0686	0.0130	3.0000	3.0000
216	Link741	371.4900	Circular	9.6211	0.0130	3.5000	3.5000

Total length of all conduits .... 31401.1300 feet

Table E2 - Conduit Factor Data

Conduit Name	Number of Barrels	Entrance Loss Coef	Exit Loss Coef	Exp/Contc Coefficnt	Time Weighting Parameter	Low Flow Roughness Factor	Depth at Which n Changes	Flow Routing
L_JCT137	2.0000	0.0000	0.0000	0.0000	0.8500	1.0000	0.0000	Standard - Dynamic Wave
L-MHI-79	2.0000	0.0000	0.0000	0.0000	0.8500	1.0000	0.0000	Standard - Dynamic Wave

If there are messages about (sqrt(g*d)*dt/dx), or the sqrt(wave celerity)*time step/conduit length in the output file all it means is that the program will lower the internal time step to satisfy this condition (explicit condition). You control the actual internal time step by using the minimum courant time step factor in the HYDRAULICS job control. The message put in words states that the smallest conduit with the fastest velocity will control the time step selection. You have further control by using the modify conduit option in the HYDRAULICS Job Control.

Conduit Name	Courant Ratio
L_CI-67	0.19
L_MHI-41	0.04
L_CI-68	0.13
L_MHI-42	0.03
L_CI-71	0.03
L_CI-72	0.15
L_CI-69	0.03
L_CI-70	0.16
L_MHI-43	0.05
L_MHI-44	0.04
L_CI-73	0.03
L_CI-74	0.14
L_MHI-45	0.02
L_CI-77A	0.05
L_CI-77B	0.05
L_CI-78	0.22
L_CI-73A	0.07
L_CI-76	0.18
L_MHI-46	0.04
L_MHI-47	0.08
L_CI-79	0.07
L_CI-80	0.16
L_CI-81	0.14
L_MHI-48	0.04
L_MHI-49	0.05
L_CI-82	0.14
L_MHI-50	0.05
L_CI-83	0.04
L_CI-84	0.14
L_MHI-52	0.03
L_CI-85	0.05
L_CI-86	0.07
L_CI-87	0.22
L_MHI-53	0.06
L_CI-91	0.07
L_CI-92	0.25
L_CI-93	0.11
L_CI-94	0.05
L_MH-13	0.06
L_CI-96A	0.17
L_CI-95A	0.18
L_MHI-55	0.04
L_MHI-56	0.04
L_MHI-54	0.25
L_CI-95B	0.14
L_MHI-57	0.04
L_MHI-58	0.38
L_CI-96B	0.24
L_MH-14	0.03
L_CI-98	0.24
L_CI-97	0.14
L_MHI-59	0.05
L_MHI-60	0.43
L_MH-15	0.05
L_CI-99	0.14
L_CI-100	0.24
L_MH-16	0.08
L_MH-17	0.09
L_CI-101	0.05
L_CI-102	0.22
L_MH-19	0.05
L_CI-106	0.14
L_MHI-66	0.04
L_CI-105	0.14
L_CI-108	0.11
L_MHI-64	0.05
L_CI-107B	0.14
L_CI-107A	0.14
L_MHI-61	0.08
L_MHI-63	0.05
L_MHI-65	0.10
L_MHI-62	0.38
L_CI-104	0.24
L_MH-20	0.04
L_CI-103	0.24
L_MH-18B	0.05
L_MH-18A	0.04
L_CI-109	0.03
L_CI-110	0.03
L_CI-111	0.18
L_CI-112A	0.05
L_CI-112B	0.05
L_CI-113	0.21
L_MHI-67	0.05
L_MHI-68	0.05
L_CI-114	0.16
L_CI-115	0.07
L_CI-116	0.17
L_CI-117	0.07
L_MHI-69	0.05
L_MHI-70	0.02
L_CI-129	0.07

L_CI-128	0.17
L_CI-127	0.20
L_MHI-75	0.05
L_MHI-76	0.05
L_CI-125	0.14
L_CI-124	0.14
L_MHI-73	0.04
L_MHI-74	0.03
L_MH-23	0.04
L_CI-122	0.22
L_DI-15	0.33
L_MH-21	0.10
L_MH-22	0.03
L_MH-71	0.06
L_MHI-72	0.24
L_CI-130	0.03
L_CI-131	0.08
L_CI-132	0.15
L_CI-133	0.03
L_CI-134	0.08
L_CI-136	0.05
L_CI-135	0.14
L_MHI-77	0.06
L_MHI-78	0.04
L_MHI-80	0.05
L_CI-145	0.06
L_CI-147	0.05
L_MH-29	0.03
L_MH-30	0.13
L_CI-142	0.04
L_CI-143	0.08
L_MH-27	0.04
L_CI-141	0.18
L_MH-28	0.02
L_CI-139	0.04
L_CI-138	0.28
L_MH-26	0.06
L_MH-25	0.04
L_JCT137	0.26
L_CI-148	0.03
L_CI-149	0.16
L_MHI-81A	0.05
L_MHI-82	0.45
L_MH-31	0.04
L_CI-150	0.24
L_CI-151	0.14
L_MHI-83	0.04
L_MHI-84	0.41
L_MH-32	0.02
L_MH-33	0.08
L_CI-152	0.04
L_CI-153	0.19
L_CI-154	0.04
L_CI-155	0.04
L_CI-157	0.03
L_CI-156	0.19
L_MH-34	0.11
L_CI-159	0.03
L_CI-158	0.23
L_CI-160	0.09
L_MHI-85	0.05
L_MHI-86	0.28
L_CI-161	0.28
L_MH-40	0.02
L_MH-35	0.16
L_MH-36	0.03
L_CI-100B	0.14
L_CI-100A	0.18
L_JCT-18A	0.39
L_CI-102A	0.07
L_JCT102A	0.39
L_CI-118	0.10
L_CI-120	0.05
L_CI-119	0.10
L_JCT-72	0.25
L_CI-126	0.14
L_MH-24	0.28
L_CI-137	0.06
L_CI-144	0.16
L_CI-146	0.05
L_CI-155A	0.06
L_CI-155B	0.28
L_MH-34A	0.06
L_CI-75	0.07
L_CI-78A	0.20
L_JCT-78A	0.06
L_CI-81A	0.14
L_CI-88	0.07
L_CI-90	0.07
L_CI-89	0.15
Link687	0.14
Link688	0.03
L-JCT-54	0.27
Link691	0.03
L-JCT-19	0.08
L-MHI-79	0.26
Link700	0.03
Link714	0.14
Link715	0.07
L-MHI-72X	1.28 ===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-C-2	0.26
L-F-1	0.01
L-B-3	0.10
L-B-4	0.04
L-B-5	0.18
L-MH-D2	0.13
L-B-6	0.04
L-B-1	0.02
L-B-2	0.06
L-MHI-54X	0.91
L-C-1	0.03
L-MH-18	0.20
L-E-2	0.20
L-E-1	0.03
L-D-1	0.12
L-MHI-79X	1.30 ===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-G-4	0.03
L-G-2	0.06
L-G-1	0.14
L-G-3	0.03
L-F-OFF	0.16
L_MH-B1	0.09
L_MH-B2	0.07
Link741	0.03

==================
| Conduit Volume |
==================

Full pipe or full open conduit volume
Input full depth volume..... 1.4594E+06 cubic feet

===> Warning !! The upstream and downstream junctions for the following conduits have been reversed to correspond to the positive flow and decreasing slope convention. A negative flow in the output thus means the flow was from your original upstream junction to your original downstream junction. Any initial flow has been multiplied by -1.

1. Conduit #...L-C-2 has been changed.
2. Conduit #...L-E-2 has been changed.

Table E3a - Junction Data

Inp Num	Junction Name	Ground Elevation	Crown Elevation	Invert Elevation	Qinst cfs	Initial Depth-ft	Interface Flow (%)
1	CI-84	90.3400	90.3400	85.4300	0.0000	0.0000	100.0000
2	MH-20	87.4300	83.7900	78.8200	0.0000	0.0000	100.0000
3	CI-113	86.5600	86.5600	79.9100	0.0000	0.0000	100.0000
4	CI-120	84.4400	84.4400	78.2900	0.0000	0.0000	100.0000
5	MHI-79	83.7900	83.7900	71.8800	0.0000	0.0000	100.0000
6	MH-28	83.8700	80.5200	76.1100	0.0000	0.0000	100.0000
7	MHI-75	83.9900	83.9900	79.3600	0.0000	0.0000	100.0000
8	MHI-74	84.8900	84.8900	77.8600	0.0000	0.0000	100.0000
9	CI-135	84.7000	84.7000	78.9000	0.0000	0.0000	100.0000
10	CI-158	82.8400	82.8400	77.2900	0.0000	0.0000	100.0000
11	MHI-84	82.2100	82.2100	76.9900	0.0000	0.0000	100.0000
12	MHI-85	82.0500	82.0500	77.7400	0.0000	0.0000	100.0000
13	MH-40	83.6400	79.2000	75.2500	0.0000	0.0000	100.0000
14	CI-161	83.5900	83.5900	76.3200	0.0000	0.0000	100.0000
15	CI-159	83.3100	83.3100	78.0500	0.0000	0.0000	100.0000
16	MH-34	82.3200	78.9100	75.2200	0.0000	0.0000	100.0000
17	CI-156	82.2000	82.2000	76.9800	0.0000	0.0000	100.0000
18	CI-160	83.2200	83.2200	78.3200	0.0000	0.0000	100.0000
19	CI-157	82.6700	82.6700	77.7200	0.0000	0.0000	100.0000
20	MH-34A	82.7000	78.6400	75.0100	0.0000	0.0000	100.0000
21	CI-155	82.1200	82.1200	76.0700	0.0000	0.0000	100.0000
22	MH-33	82.9500	79.7100	74.7300	0.0000	0.0000	100.0000
23	CI-153	82.8400	82.8400	77.7800	0.0000	0.0000	100.0000
24	CI-154	82.5200	82.5200	76.8900	0.0000	0.0000	100.0000
25	MHI-83	82.5900	82.5900	78.0600	0.0000	0.0000	100.0000
26	MH-32	84.0400	80.1500	75.4300	0.0000	0.0000	100.0000
27	CI-150	83.9900	83.9900	78.7200	0.0000	0.0000	100.0000
28	MH-31	84.5700	79.7900	76.7900	0.0000	0.0000	100.0000
29	CI-146	82.9500	82.9500	78.6700	0.0000	0.0000	100.0000
30	CI-145	85.0900	85.0900	79.7400	0.0000	0.0000	100.0000
31	MH-29	85.0000	81.0700	79.0700	0.0000	0.0000	100.0000
32	MH-27	84.9800	80.9200	77.4200	0.0000	0.0000	100.0000
33	CI-143	84.6200	84.6200	77.6200	0.0000	0.0000	100.0000
34	MH-26	85.0900	80.0000	74.7100	0.0000	0.0000	100.0000
35	CI-142	85.0400	85.0400	80.0200	0.0000	0.0000	100.0000
36	MHI-80	84.0500	84.0500	75.0800	0.0000	0.0000	100.0000
37	MH-25	85.5900	78.8900	74.3900	0.0000	0.0000	100.0000
38	MHI-77	83.6200	83.6200	78.2800	0.0000	0.0000	100.0000
39	MHI-78	83.6200	83.6200	77.8300	0.0000	0.0000	100.0000
40	CI-131	84.9200	84.9200	79.5400	0.0000	0.0000	100.0000
41	CI-134	84.9200	84.9200	79.5400	0.0000	0.0000	100.0000
42	CI-133	85.5400	85.5400	80.5200	0.0000	0.0000	100.0000
43	CI-130	85.5400	85.5400	79.7000	0.0000	0.0000	100.0000
44	CI-129	85.8100	85.8100	81.1400	0.0000	0.0000	100.0000
45	CI-128	85.6900	85.6900	80.5400	0.0000	0.0000	100.0000
46	MHI-76	84.1900	84.1900	78.6200	0.0000	0.0000	100.0000
47	CI-127	85.5900	85.5900	79.9500	0.0000	0.0000	100.0000
48	MH-24	85.1500	82.9900	79.9900	0.0000	0.0000	100.0000
49	CI-126	84.7700	84.7700	81.0400	0.0000	0.0000	100.0000
50	CI-124	86.0600	86.0600	81.5100	0.0000	0.0000	100.0000
51	MHI-73	84.7900	84.7900	80.9100	0.0000	0.0000	100.0000
52	CI-125	86.0600	86.0600	81.0400	0.0000	0.0000	100.0000
53	MH-22	85.6300	82.6800	81.1800	0.0000	0.0000	100.0000
54	MH-23	83.7000	81.3000	77.3000	0.0000	0.0000	100.0000
55	MHI-72	84.6800	84.6800	74.1600	0.0000	0.0000	100.0000
56	MHI-71	84.7900	84.7900	77.2000	0.0000	0.0000	100.0000
57	CI-122	86.0900	86.0900	77.2800	0.0000	0.0000	100.0000
58	CI-119	85.0900	85.0900	77.6400	0.0000	0.0000	100.0000
59	CI-118	86.4400	86.4400	75.1300	0.0000	0.0000	100.0000
60	CI-115	86.3000	86.3000	81.1200	0.0000	0.0000	100.0000
61	CI-117	86.3000	86.3000	81.1200	0.0000	0.0000	100.0000
62	CI-116	86.0900	86.0900	80.5200	0.0000	0.0000	100.0000
63	MHI-67	85.2900	85.2900	79.8500	0.0000	0.0000	100.0000
64	MHI-68	85.2900	85.2900	78.9700	0.0000	0.0000	100.0000
65	CI-111	86.5600	86.5600	81.0900	0.0000	0.0000	100.0000
66	CI-114	86.0900	86.0900	80.5200	0.0000	0.0000	100.0000
67	MHI-70	84.7900	84.7900	78.0500	0.0000	0.0000	100.0000
68	CI-109	87.8400	87.8400	82.0900	0.0000	0.0000	100.0000
69	MHI-64	86.4000	86.4000	81.3500	0.0000	0.0000	100.0000
70	CI-108	87.4700	87.4700	81.9600	0.0000	0.0000	100.0000
71	MHI-63	86.0200	86.0200	80.0900	0.0000	0.0000	100.0000
72	CI-107A	87.3400	87.3400	81.9700	0.0000	0.0000	100.0000
73	MHI-61	86.2700	86.2700	81.3600	0.0000	0.0000	100.0000
74	MHI-62	86.5700	86.5700	80.3500	0.0000	0.0000	100.0000
75	MHI-65	86.0200	86.0200	79.0200	0.0000	0.0000	100.0000
76	CI-105	87.1200	87.1200	82.0700	0.0000	0.0000	100.0000
77	CI-106	87.5900	87.5900	82.6800	0.0000	0.0000	100.0000
78	MHI-66	86.9200	86.9200	82.1200	0.0000	0.0000	100.0000
79	CI-104	87.3800	87.3800	82.3300	0.0000	0.0000	100.0000
80	MH-18B	88.1500	84.3600	77.5700	0.0000	0.0000	100.0000
81	CI-103	88.1000	88.1000	82.9100	0.0000	0.0000	100.0000
82	CI-102	87.7500	87.7500	81.7000	0.0000	0.0000	100.0000
83	CI-101	88.1800	88.1800	82.9600	0.0000	0.0000	100.0000
84	MHI-59	88.3000	88.3000	82.6500	0.0000	0.0000	100.0000
85	CI-98	88.4900	88.4900	83.4400	0.0000	0.0000	100.0000
86	CI-99	88.0700	88.0700	82.9600	0.0000	0.0000	100.0000
87	CI-100	87.9600	87.9600	82.9100	0.0000	0.0000	100.0000
88	MH-16	88.5100	84.3200	78.1200	0.0000	0.0000	100.0000
89	CI-95B	89.4900	89.4900	84.5600	0.0000	0.0000	100.0000
90	MHI-57	88.0200	88.0200	84.0000	0.0000	0.0000	100.0000
91	MHI-58	87.6900	87.6900	83.5400	0.0000	0.0000	100.0000
92	MH-14	89.3800	85.7500	83.0200	0.0000	0.0000	100.0000
93	CI-93	89.3000	89.3000	83.0500	0.0000	0.0000	100.0000
94	CI-94	88.9700	88.9700	82.3800	0.0000	0.0000	100.0000
95	CI-95A	89.6300	89.6300	84.9100	0.0000	0.0000	100.0000
96	MHI-55	88.5600	88.5600	84.3300	0.0000	0.0000	100.0000
97	MHI-56	88.4600	88.4600	81.6800	0.0000	0.0000	100.0000
98	CI-96A	89.6800	89.6800	84.6600	0.0000	0.0000	100.0000
99	CI-92	88.7100	88.7100	84.3000	0.0000	0.0000	100.0000
100	MH-13	89.6900	89.6900	82.9000	0.0000	0.0000	100.0000
101	CI-91	89.6400	89.6400	84.9100	0.0000	0.0000	100.0000
102	MHI-54	88.9600	88.9600	78.0500	0.0000	0.0000	100.0000
103	CI-88	90.0200	90.0200	82.0600	0.0000	0.0000	100.0000
104	MHI-52	88.9600	88.9600	84.3300	0.0000	0.0000	100.0000
105	CI-81	91.0800	91.0800	85.0100	0.0000	0.0000	100.0000
106	MHI-50	89.0600	89.0600	79.2700	0.0000	0.0000	100.0000
107	MHI-49	88.8100	88.8100	82.7500	0.0000	0.0000	100.0000

108	MHI-48	88.3600	88.3600	83.4500	0.0000	0.0000	100.0000
109	CI-79	90.8700	90.8700	84.6100	0.0000	0.0000	100.0000
110	MHI-47	89.0600	89.0600	81.8500	0.0000	0.0000	100.0000
111	MHI-46	88.7600	88.7600	83.5400	0.0000	0.0000	100.0000
112	CI-76	90.8100	90.8100	84.8600	0.0000	0.0000	100.0000
113	CI-75	90.5900	90.5900	85.5900	0.0000	0.0000	100.0000
114	CI-78	90.2400	90.2400	84.5600	0.0000	0.0000	100.0000
115	CI-77A	90.2300	90.2300	85.5800	0.0000	0.0000	100.0000
116	CI-74	90.9700	90.9700	86.3800	0.0000	0.0000	100.0000
117	MHI-45	89.8600	89.8600	83.7800	0.0000	0.0000	100.0000
118	CI-73	90.9700	90.9700	86.8100	0.0000	0.0000	100.0000
119	CI-70	91.8600	91.8600	86.5000	0.0000	0.0000	100.0000
120	MHI-44	90.7600	90.7600	84.2300	0.0000	0.0000	100.0000
121	CI-72	91.7800	91.7800	86.2900	0.0000	0.0000	100.0000
122	CI-112B	87.0200	87.0200	80.1100	0.0000	0.0000	100.0000
123	MHI-86	82.1200	82.1200	76.7700	0.0000	0.0000	100.0000
124	CI-155A	82.7200	82.7200	77.3500	0.0000	0.0000	100.0000
125	CI-155B	82.7200	82.7200	77.1900	0.0000	0.0000	100.0000
126	MH-35	82.9400	79.2400	73.0300	0.0000	0.0000	100.0000
127	MH-36	83.9400	78.4800	71.4200	0.0000	0.0000	100.0000
128	CI-151	83.2100	83.2100	78.6500	0.0000	0.0000	100.0000
129	CI-152	83.2900	83.2900	78.1400	0.0000	0.0000	100.0000
130	CI-149	83.9000	83.9000	78.2800	0.0000	0.0000	100.0000
131	CI-148	84.5900	84.5900	79.3900	0.0000	0.0000	100.0000
132	MHI-82	82.4200	82.4200	76.8400	0.0000	0.0000	100.0000
133	MHI-81	83.2800	83.2800	77.6900	0.0000	0.0000	100.0000
134	CI-147	84.1200	84.1200	79.4100	0.0000	0.0000	100.0000
135	MH-30	84.2200	80.7600	77.9000	0.0000	0.0000	100.0000
136	CI-144	84.8300	84.8300	79.1200	0.0000	0.0000	100.0000
137	CI-141	83.8400	83.8400	78.7900	0.0000	0.0000	100.0000
138	CI-140	84.0400	84.0400	78.9900	0.0000	0.0000	100.0000
139	CI-139	84.5400	84.5400	78.2700	0.0000	0.0000	100.0000
140	CI-138	85.0400	85.0400	78.0700	0.0000	0.0000	100.0000
141	MHI-79X	87.3200	87.3200	71.7300	0.0000	0.0000	100.0000
142	CI-132	84.7000	84.7000	78.9000	0.0000	0.0000	100.0000
143	CI-136	85.0500	85.0500	80.2300	0.0000	0.0000	100.0000
144	MHI-72X	87.0000	86.7300	73.3700	0.0000	0.0000	100.0000
145	JCT-72	84.6800	80.5600	74.0600	0.0000	0.0000	100.0000
146	MH-21	86.2900	82.7500	81.2500	0.0000	0.0000	100.0000
147	DI-15	84.9900	84.9900	81.2700	0.0000	0.0000	100.0000
148	MHI-69	84.7900	84.7900	79.9600	0.0000	0.0000	100.0000
149	CI-110	87.0900	87.0900	81.3400	0.0000	0.0000	100.0000
150	CI-112A	87.3700	87.3700	81.8600	0.0000	0.0000	100.0000
151	MH-18A	88.7800	80.3200	76.8200	0.0000	0.0000	100.0000
152	CI-100B	88.3800	88.3800	82.0100	0.0000	0.0000	100.0000
153	CI-100A	88.2600	83.4300	81.9300	0.0000	0.0000	100.0000
154	MH-18	87.6400	83.7700	71.7700	0.0000	0.0000	100.0000
155	JCT-18A	87.6400	83.8200	71.8200	0.0000	0.0000	100.0000
156	MH-19	88.4500	84.1100	81.6100	0.0000	0.0000	100.0000
157	JCT-19	87.5500	84.0600	72.0600	0.0000	0.0000	100.0000
158	MH-17	88.3200	81.2800	76.0500	0.0000	0.0000	100.0000
159	CI-97	88.7400	88.7400	83.7600	0.0000	0.0000	100.0000
160	MH-15	88.5400	85.0100	80.6100	0.0000	0.0000	100.0000
161	MHI-60	88.0200	88.0200	82.4500	0.0000	0.0000	100.0000
162	CI-96B	89.3300	89.3300	84.2800	0.0000	0.0000	100.0000
163	CI-82	91.0000	91.0000	85.2600	0.0000	0.0000	100.0000
164	CI-81A	91.2100	91.2100	85.0800	0.0000	0.0000	100.0000
165	CI-82A	90.5800	90.5800	85.7100	0.0000	0.0000	100.0000
166	MHI-50A	89.3100	89.3100	85.6600	0.0000	0.0000	100.0000
167	CI-83	90.9800	90.9800	85.6300	0.0000	0.0000	100.0000
168	MH-12	90.1600	90.1600	80.7800	0.0000	0.0000	100.0000
169	MHI-53	89.0600	89.0600	80.5300	0.0000	0.0000	100.0000
170	CI-85	90.3100	90.3100	84.5900	0.0000	0.0000	100.0000
171	CI-86	89.9600	89.9600	83.9200	0.0000	0.0000	100.0000
172	CI-87	90.2000	90.2000	80.6500	0.0000	0.0000	100.0000
173	CI-89	89.7400	89.7400	81.5300	0.0000	0.0000	100.0000
174	CI-90	89.9500	89.9500	82.1300	0.0000	0.0000	100.0000
175	JCT-54	88.9600	84.4600	77.9600	0.0000	0.0000	100.0000
176	MHI-54X	90.5000	90.5000	77.8800	0.0000	0.0000	100.0000
177	CI-80	90.5900	90.5900	84.0100	0.0000	0.0000	100.0000
178	CI-77B	89.8100	89.8100	84.8200	0.0000	0.0000	100.0000
179	CI-78A	90.7200	90.7200	84.3500	0.0000	0.0000	100.0000
180	JCT-78A	90.0600	85.9600	81.4600	0.0000	0.0000	100.0000
181	CI-73A	90.4200	90.4200	85.8100	0.0000	0.0000	100.0000
182	CI-69	91.5700	91.5700	87.2400	0.0000	0.0000	100.0000
183	MHI-43	90.5000	90.5000	85.9500	0.0000	0.0000	100.0000
184	CI-71	92.4500	92.4500	87.0400	0.0000	0.0000	100.0000
185	MHI-42	91.9100	91.9100	86.0000	0.0000	0.0000	100.0000
186	MHI-41	92.0600	92.0600	86.9600	0.0000	0.0000	100.0000
187	CI-68	92.9800	92.9800	87.6100	0.0000	0.0000	100.0000
188	CI-67	93.0900	93.0900	87.0200	0.0000	0.0000	100.0000
189	CI-107B	87.1200	87.1200	82.0800	0.0000	0.0000	100.0000
190	CI-102A	87.6600	87.6600	81.7900	0.0000	0.0000	100.0000
191	CI-137	85.0500	85.0500	75.9700	0.0000	0.0000	100.0000
192	G-4	82.0200	82.0200	69.5700	0.0000	0.0000	100.0000
193	JCT102A	88.0400	84.1100	72.1100	0.0000	0.0000	100.0000
194	JCT137	83.7900	77.2300	71.8000	0.0000	0.0000	100.0000
195	SYS-D-OUT	87.0000	87.0000	70.9600	0.0000	0.0000	100.0000
196	MHI-51	89.4600	89.4600	85.0800	0.0000	0.0000	100.0000
197	CI-121	86.3100	86.3100	80.9500	0.0000	0.0000	100.0000
198	B-3	92.1500	92.1500	78.6400	0.0000	0.0000	100.0000
199	SYS-E-OUT	86.5000	86.5000	78.0000	0.0000	0.0000	100.0000
200	SYS-C-OUT	90.5000	90.5000	82.3100	0.0000	0.0000	100.0000
201	SYS-F-OUT	86.5000	86.5000	73.6900	0.0000	0.0000	100.0000
202	SYS-B-OUT	91.0000	91.0000	79.2600	0.0000	0.0000	100.0000
203	B-4	92.0000	92.0000	83.2000	0.0000	0.0000	100.0000
204	B-5	93.2600	93.2600	83.3900	0.0000	0.0000	100.0000
205	MH-D2	88.0400	88.0400	72.2600	0.0000	0.0000	100.0000
206	B-6	93.7300	93.7300	83.8600	0.0000	0.0000	100.0000
207	B-1	93.0000	93.0000	81.2100	0.0000	0.0000	100.0000
208	B-2	93.9700	93.9700	82.1800	0.0000	0.0000	100.0000
209	C-2	90.5000	90.5000	77.8800	0.0000	0.0000	100.0000
210	C-1	95.0000	95.0000	82.4400	0.0000	0.0000	100.0000
211	D-1	88.0000	88.0000	71.6600	0.0000	0.0000	100.0000
212	E-1	91.1000	91.1000	78.3200	0.0000	0.0000	100.0000
213	E-2	87.0000	86.7300	73.9600	0.0000	0.0000	100.0000
214	F-1	86.6500	86.6500	71.7300	0.0000	0.0000	100.0000
215	G-2	82.8200	82.8200	68.5100	0.0000	0.0000	100.0000
216	G-1	81.6200	81.6200	68.2100	0.0000	0.0000	100.0000
217	SYS-G-OUT	81.6200	81.6200	68.1100	0.0000	0.0000	100.0000
218	G-3	82.9200	82.9200	68.7700	0.0000	0.0000	100.0000
219	F-OFFSITE	84.0500	84.0500	75.2200	0.0000	0.0000	100.0000
220	MHI-50S	91.5000	91.5000	80.2600	0.0000	0.0000	100.0000
221	MH-B2	91.3800	91.3800	80.7600	0.0000	0.0000	100.0000
222	MH-B1	92.2900	92.2900	80.9200	0.0000	0.0000	100.0000

Table E3b - Junction Data

Inp Num	Junction Name	X Coord.	Y Coord.	Type of Manhole	Type of Inlet	Maximum Capacity	Pavement Shape	Pavement Slope
1	CI-84	10350.0000	350.0000	F	Normal		0	0.0000
2	MH-20	13450.0000	300.0000		Normal		0	0.0000
3	CI-113	14550.0000	-100.0000	F	Normal		0	0.0000
4	CI-120	15500.0000	200.0000	F	Normal		0	0.0000

5	MHI-79	17250.0000	0.0000	F	Normal	0	0.0000
6	MH-28	18250.0000	0.0000		Normal	0	0.0000
7	MHI-75	16150.0000	-150.0000	F	Normal	0	0.0000
8	MHI-74	15950.0000	50.0000	F	Normal	0	0.0000
9	CI-135	17000.0000	-250.0000	F	Normal	0	0.0000
10	CI-158	20000.0000	-100.0000	F	Normal	0	0.0000
11	MHI-84	19250.0000	-150.0000	F	Normal	0	0.0000
12	MHI-85	20450.0000	-450.0000	F	Normal	0	0.0000
13	MH-40	20450.0000	-200.0000		Normal	0	0.0000
14	CI-161	20450.0000	-100.0000	F	Normal	0	0.0000
15	CI-159	20150.0000	-100.0000	F	Normal	0	0.0000
16	MH-34	19900.0000	-450.0000		Normal	0	0.0000
17	CI-156	20050.0000	-450.0000	F	Normal	0	0.0000
18	CI-160	20300.0000	-450.0000	F	Normal	0	0.0000
19	CI-157	20200.0000	-450.0000	F	Normal	0	0.0000
20	MH-34A	19900.0000	-350.0000		Normal	0	0.0000
21	CI-155	19750.0000	-450.0000	F	Normal	0	0.0000
22	MH-33	19650.0000	-100.0000		Normal	0	0.0000
23	CI-153	19650.0000	0.0000	F	Normal	0	0.0000
24	CI-154	19550.0000	-450.0000	F	Normal	0	0.0000
25	MHI-83	19250.0000	-300.0000	F	Normal	0	0.0000
26	MH-32	19250.0000	-100.0000		Normal	0	0.0000
27	CI-150	19250.0000	0.0000	F	Normal	0	0.0000
28	MH-31	19000.0000	-100.0000		Normal	0	0.0000
29	CI-146	18550.0000	0.0000	F	Normal	0	0.0000
30	CI-145	18600.0000	-350.0000	F	Normal	0	0.0000
31	MH-29	18400.0000	-250.0000		Normal	0	0.0000
32	MH-27	18250.0000	-250.0000		Normal	0	0.0000
33	CI-143	18210.5994	-339.7030	F	Normal	0	0.0000
34	MH-26	17750.0000	0.0000		Normal	0	0.0000
35	CI-142	18078.6502	-338.3439	F	Normal	0	0.0000
36	MHI-80	17380.0000	-220.0000	F	Normal	0	0.0000
37	MH-25	17550.0000	0.0000		Normal	0	0.0000
38	MHI-77	17000.0000	-150.0000	F	Normal	0	0.0000
39	MHI-78	17000.0000	0.0000	F	Normal	0	0.0000
40	CI-131	16850.0000	100.0000	F	Normal	0	0.0000
41	CI-134	16800.0000	-250.0000	F	Normal	0	0.0000
42	CI-133	16650.0000	-250.0000	F	Normal	0	0.0000
43	CI-130	16700.0000	100.0000	F	Normal	0	0.0000
44	CI-129	16250.0000	150.0000	F	Normal	0	0.0000
45	CI-128	16150.0000	150.0000	F	Normal	0	0.0000
46	MHI-76	16150.0000	50.0000	F	Normal	0	0.0000
47	CI-127	16150.0000	-250.0000	F	Normal	0	0.0000
48	MH-24	16250.0000	-250.0000		Normal	0	0.0000
49	CI-126	16350.0000	-250.0000	F	Normal	0	0.0000
50	CI-124	15950.0000	-250.0000	F	Normal	0	0.0000
51	MHI-73	15950.0000	-150.0000	F	Normal	0	0.0000
52	CI-125	15950.0000	150.0000	F	Normal	0	0.0000
53	MH-22	15550.0000	-50.0000		Normal	0	0.0000
54	MH-23	15600.0000	100.0000		Normal	0	0.0000
55	MHI-72	15300.0000	100.0000	F	Normal	0	0.0000
56	MHI-71	15350.0000	-50.0000	F	Normal	0	0.0000
57	CI-122	15350.0000	-150.0000	F	Normal	0	0.0000
58	CI-119	15350.0000	200.0000	F	Normal	0	0.0000
59	CI-118	15150.0000	200.0000	F	Normal	0	0.0000
60	CI-115	14900.0000	250.0000	F	Normal	0	0.0000
61	CI-117	14850.0000	-100.0000	F	Normal	0	0.0000
62	CI-116	14750.0000	-100.0000	F	Normal	0	0.0000
63	MHI-67	14550.0000	0.0000	F	Normal	0	0.0000
64	MHI-68	14550.0000	150.0000	F	Normal	0	0.0000
65	CI-111	14550.0000	250.0000	F	Normal	0	0.0000
66	CI-114	14750.0000	250.0000	F	Normal	0	0.0000
67	MHI-70	14750.0000	150.0000	F	Normal	0	0.0000
68	CI-109	14050.0000	250.0000	F	Normal	0	0.0000
69	MHI-64	13750.0000	100.0000	F	Normal	0	0.0000
70	CI-108	13750.0000	0.0000	F	Normal	0	0.0000
71	MHI-63	13600.0000	100.0000	F	Normal	0	0.0000
72	CI-107A	13450.0000	0.0000	F	Normal	0	0.0000
73	MHI-61	13450.0000	100.0000	F	Normal	0	0.0000
74	MHI-62	13450.0000	200.0000	F	Normal	0	0.0000
75	MHI-65	13600.0000	300.0000	F	Normal	0	0.0000
76	CI-105	13600.0000	400.0000	F	Normal	0	0.0000
77	CI-106	13750.0000	400.0000	F	Normal	0	0.0000
78	MHI-66	13750.0000	300.0000	F	Normal	0	0.0000
79	CI-104	13450.0000	400.0000	F	Normal	0	0.0000
80	MH-18B	13200.0000	300.0000		Normal	0	0.0000
81	CI-103	13200.0000	400.0000	F	Normal	0	0.0000
82	CI-102	12650.0000	0.0000	F	Normal	0	0.0000
83	CI-101	12500.0000	0.0000	F	Normal	0	0.0000
84	MHI-59	12250.0000	100.0000	F	Normal	0	0.0000
85	CI-98	12250.0000	400.0000	F	Normal	0	0.0000
86	CI-99	12400.0000	400.0000	F	Normal	0	0.0000
87	CI-100	12450.0000	400.0000	F	Normal	0	0.0000
88	MH-16	12450.0000	300.0000		Normal	0	0.0000
89	CI-95B	11950.0000	0.0000	F	Normal	0	0.0000
90	MHI-57	11950.0000	100.0000	F	Normal	0	0.0000
91	MHI-58	11950.0000	250.0000	F	Normal	0	0.0000
92	MH-14	11950.0000	300.0000		Normal	0	0.0000
93	CI-93	11550.0000	-50.0000	F	Normal	0	0.0000
94	CI-94	11450.0000	-50.0000	F	Normal	0	0.0000
95	CI-95A	11250.0000	-50.0000	F	Normal	0	0.0000
96	MHI-55	11250.0000	50.0000	F	Normal	0	0.0000
97	MHI-56	11250.0000	250.0000	F	Normal	0	0.0000
98	CI-96A	11250.0000	350.0000	F	Normal	0	0.0000
99	CI-92	11450.0000	350.0000	F	Normal	0	0.0000
100	MH-13	11450.0000	250.0000	F	Normal	0	0.0000
101	CI-91	11550.0000	350.0000	F	Normal	0	0.0000
102	MHI-54	10600.0000	250.0000	F	Normal	0	0.0000
103	CI-88	10445.9170	351.3591	F	Normal	0	0.0000
104	MHI-52	10350.0000	250.0000	F	Normal	0	0.0000
105	CI-81	9850.0000	-150.0000	F	Normal	0	0.0000
106	MHI-50	9850.0000	150.0000	F	Normal	0	0.0000
107	MHI-49	9850.0000	-50.0000	F	Normal	0	0.0000
108	MHI-48	9650.0000	-50.0000	F	Normal	0	0.0000
109	CI-79	9550.0000	-150.0000	F	Normal	0	0.0000
110	MHI-47	9200.0000	150.0000	F	Normal	0	0.0000
111	MHI-46	9050.0000	-50.0000	F	Normal	0	0.0000
112	CI-76	9050.0000	-150.0000	F	Normal	0	0.0000
113	CI-75	8950.0000	-150.0000	F	Normal	0	0.0000
114	CI-78	9200.0000	250.0000	F	Normal	0	0.0000
115	CI-77A	8900.0000	250.0000	F	Normal	0	0.0000
116	CI-74	8650.0000	250.0000	F	Normal	0	0.0000
117	MHI-45	8650.0000	150.0000	F	Normal	0	0.0000
118	CI-73	8650.0000	-150.0000	F	Normal	0	0.0000
119	CI-70	8350.0000	-150.0000	F	Normal	0	0.0000
120	MHI-44	8350.0000	150.0000	F	Normal	0	0.0000
121	CI-72	8350.0000	250.0000	F	Normal	0	0.0000
122	CI-112B	14350.0000	-100.0000	F	Normal	0	0.0000
123	MHI-86	20450.0000	-250.0000	F	Normal	0	0.0000
124	CI-155A	19550.0000	-350.0000	F	Normal	0	0.0000
125	CI-155B	19750.0000	-350.0000	F	Normal	0	0.0000
126	MH-35	19900.0000	-200.0000		Normal	0	0.0000
127	MH-36	19850.0000	-100.0000		Normal	0	0.0000
128	CI-151	19250.0000	-400.0000	F	Normal	0	0.0000
129	CI-152	19500.0000	0.0000	F	Normal	0	0.0000
130	CI-149	19000.0000	-400.0000	F	Normal	0	0.0000
131	CI-148	18850.0000	-400.0000	F	Normal	0	0.0000
132	MHI-82	19000.0000	-150.0000	F	Normal	0	0.0000

133	MHI-81	19000.0000	-300.0000		F	Normal	0	0.0000
134	CI-147	18700.0000	0.0000		F	Normal	0	0.0000
135	MH-30	18400.0000	0.0000			Normal	0	0.0000
136	CI-144	18400.0000	-350.0000		F	Normal	0	0.0000
137	CI-141	18250.0000	100.0000		F	Normal	0	0.0000
138	CI-140	18100.0000	100.0000		F	Normal	0	0.0000
139	CI-139	17950.0000	100.0000		F	Normal	0	0.0000
140	CI-138	17750.0000	100.0000		F	Normal	0	0.0000
141	MHI-79X	17250.0000	200.0000		F	Normal	0	0.0000
142	CI-132	17000.0000	100.0000		F	Normal	0	0.0000
143	CI-136	17150.0000	-250.0000		F	Normal	0	0.0000
144	MHI-72X	15191.8335	344.5635			Normal	0	0.0000
145	JCT-72	15250.0000	200.0000			Normal	0	0.0000
146	MH-21	15600.0000	-150.0000			Normal	0	0.0000
147	DI-15	15600.0000	-250.0000		F	Normal	0	0.0000
148	MHI-69	14750.0000	0.0000		F	Normal	0	0.0000
149	CI-110	14300.0000	250.0000		F	Normal	0	0.0000
150	CI-112A	14200.0000	-100.0000		F	Normal	0	0.0000
151	MH-18A	12950.0000	300.0000			Normal	0	0.0000
152	CI-100B	12900.0000	400.0000		F	Normal	0	0.0000
153	CI-100A	12800.0000	400.0000			Normal	0	0.0000
154	MH-18	12700.0000	400.0000			Normal	0	0.0000
155	JCT-18A	12700.0000	300.0000			Normal	0	0.0000
156	MH-19	12650.0000	100.0000			Normal	0	0.0000
157	JCT-19	12800.0000	100.0000			Normal	0	0.0000
158	MH-17	12600.0000	300.0000			Normal	0	0.0000
159	CI-97	12250.0000	0.0000		F	Normal	0	0.0000
160	MH-15	12250.0000	300.0000			Normal	0	0.0000
161	MHI-60	12250.0000	250.0000		F	Normal	0	0.0000
162	CI-96B	11950.0000	400.0000		F	Normal	0	0.0000
163	CI-82	9850.0000	250.0000		F	Normal	0	0.0000
164	CI-81A	9950.0000	-150.0000		F	Normal	0	0.0000
165	CI-82A	10050.0000	250.0000		F	Normal	0	0.0000
166	MHI-50A	10050.0000	150.0000		F	Normal	0	0.0000
167	CI-83	10350.0000	-100.0000		F	Normal	0	0.0000
168	MH-12	10900.0000	250.0000		F	Normal	0	0.0000
169	MHI-53	10700.0000	50.0000		F	Normal	0	0.0000
170	CI-85	10500.0000	-50.0000		F	Normal	0	0.0000
171	CI-86	10650.0000	-50.0000		F	Normal	0	0.0000
172	CI-87	10750.0000	-50.0000		F	Normal	0	0.0000
173	CI-89	10650.0000	350.0000		F	Normal	0	0.0000
174	CI-90	10750.0000	350.0000		F	Normal	0	0.0000
175	JCT-54	10550.0000	350.0000			Normal	0	0.0000
176	MHI-54X	10550.0000	400.0000		F	Normal	0	0.0000
177	CI-80	9650.0000	-150.0000		F	Normal	0	0.0000
178	CI-77B	9050.0000	250.0000		F	Normal	0	0.0000
179	CI-78A	9350.0000	250.0000		F	Normal	0	0.0000
180	JCT-78A	9350.0000	150.0000			Normal	0	0.0000
181	CI-73A	8850.0000	-150.0000		F	Normal	0	0.0000
182	CI-69	8100.0000	-150.0000		F	Normal	0	0.0000
183	MHI-43	8350.0000	-50.0000		F	Normal	0	0.0000
184	CI-71	8150.0000	250.0000		F	Normal	0	0.0000
185	MHI-42	7950.0000	150.0000		F	Normal	0	0.0000
186	MHI-41	7900.0000	-50.0000		F	Normal	0	0.0000
187	CI-68	7950.0000	250.0000		F	Normal	0	0.0000
188	CI-67	7900.0000	-150.0000		F	Normal	0	0.0000
189	CI-107B	13600.0000	0.0000		F	Normal	0	0.0000
190	CI-102A	13000.0000	0.0000		F	Normal	0	0.0000
191	CI-137	17150.0000	100.0000		F	Normal	0	0.0000
192	G-4	19848.9963	113.5102		F	Normal	0	0.0000
193	JCT102A	12850.0000	0.0000			Normal	0	0.0000
194	JCT137	17250.0000	100.0000			Normal	0	0.0000
195	SYS-D-OUT	12700.0000	550.0000		F	Normal	0	0.0000
196	MHI-51	10350.0000	50.0000		F	Normal	0	0.0000
197	CI-121	15200.0000	-150.0000		F	Normal	0	0.0000
198	B-3	9600.0000	150.0000		F	Normal	0	0.0000
199	SYS-E-OUT	15192.4513	599.3832		F	Normal	0	0.0000
200	SYS-C-OUT	10550.0000	550.0000		F	Normal	0	0.0000
201	SYS-F-OUT	17247.7041	592.9388		F	Normal	0	0.0000
202	SYS-B-OUT	9601.1022	434.6426		F	Normal	0	0.0000
203	B-4	9450.0000	-150.0000		F	Normal	0	0.0000
204	B-5	9400.0000	-250.0000		F	Normal	0	0.0000
205	MH-D2	12900.0000	-100.0000		F	Normal	0	0.0000
206	B-6	9351.5109	-400.1872		F	Normal	0	0.0000
207	B-1	9599.2156	329.6694		F	Normal	0	0.0000
208	B-2	9600.5765	233.1706		F	Normal	0	0.0000
209	C-2	10550.4384	438.5256		F	Normal	0	0.0000
210	C-1	10550.5642	484.6109		F	Normal	0	0.0000
211	D-1	12700.4742	464.8406		F	Normal	0	0.0000
212	E-1	15191.6222	490.0475		F	Normal	0	0.0000
213	E-2	15191.4965	406.3978		No P	Normal	0	0.0000
214	F-1	17249.0043	266.1071		F	Normal	0	0.0000
215	G-2	19849.0123	396.7428		F	Normal	0	0.0000
216	G-1	19850.3733	547.6070		F	Normal	0	0.0000
217	SYS-G-OUT	19899.3701	634.5918		F	Normal	0	0.0000
218	G-3	19849.0123	252.6743		F	Normal	0	0.0000
219	F-OFFSITE	17419.6022	-293.6987		F	Normal	0	0.0000
220	MHI-50S	10194.4932	-161.4855		F	Normal	0	0.0000
221	MH-B2	10086.9214	-163.0653		F	Normal	0	0.0000
222	MH-B1	10086.9214	-289.4455		F	Normal	0	0.0000

Table E4 - Conduit Connectivity

Input Number	Conduit Name	Upstream Node	Downstream Node	Upstream Elevation	Downstream Elevation	
1	L_CI-67	CI-67	MHI-41	87.0200	86.9000	No Design
2	L_MHI-41	MHI-41	MHI-42	86.9600	86.5000	No Design
3	L_CI-68	CI-68	MHI-42	87.6100	87.5000	No Design
4	L_MHI-42	MHI-42	MHI-44	86.0000	85.2300	No Design
5	L_CI-71	CI-71	CI-72	87.0400	86.7900	No Design
6	L_CI-72	CI-72	MHI-44	86.2900	85.2300	No Design
7	L_CI-69	CI-69	CI-70	87.2400	87.0000	No Design
8	L_CI-70	CI-70	MHI-43	86.5000	86.4500	No Design
9	L_MHI-43	MHI-43	MHI-44	85.9500	85.7300	No Design
10	L_MHI-44	MHI-44	MHI-45	84.2300	83.7800	No Design
11	L_CI-73	CI-73	MHI-45	86.8100	86.2800	No Design
12	L_CI-74	CI-74	MHI-45	86.3800	86.2800	No Design
13	L_MHI-45	MHI-45	MHI-47	83.7800	82.3500	No Design
14	L_CI-77A	CI-77A	CI-77B	85.5800	85.3200	No Design
15	L_CI-77B	CI-77B	CI-78	84.8200	84.5600	No Design
16	L_CI-78	CI-78	MHI-47	84.5600	84.4600	No Design
17	L_CI-73A	CI-73A	CI-75	85.8100	85.5900	No Design
18	L_CI-76	CI-76	MHI-46	84.8600	84.7900	No Design
19	L_MHI-46	MHI-46	MHI-47	83.5400	83.2100	No Design
20	L_MHI-47	MHI-47	JCT-78A	81.8500	81.4600	No Design
21	L_CI-79	CI-79	CI-80	84.6100	84.5100	No Design
22	L_CI-80	CI-80	MHI-48	84.0100	83.9500	No Design
23	L_CI-81	CI-81	MHI-49	85.0100	83.2500	No Design
24	L_MHI-48	MHI-48	MHI-49	83.4500	83.2500	No Design
25	L_MHI-49	MHI-49	MHI-50	82.7500	82.5300	No Design
26	L_CI-82	CI-82	MHI-50	85.2600	85.2100	No Design
27	L_MHI-50	MHI-50	B-3	79.2700	78.6400	No Design
28	L_CI-83	MHI-51	MHI-52	85.0800	84.8300	No Design
29	L_CI-84	CI-84	MHI-52	85.4300	85.3300	No Design

30	L_MHI-52	MHI-52	MHI-54	84.3300	83.6700	No Design
31	L_CI-85	CI-85	CI-86	84.5900	84.4200	No Design
32	L_CI-86	CI-86	CI-87	83.9200	83.7900	No Design
33	L_CI-87	CI-87	MHI-53	80.6500	80.5300	No Design
34	L_MHI-53	MHI-53	MHI-54	80.5300	80.0500	No Design
35	L_CI-91	CI-91	CI-92	84.9100	84.8000	No Design
36	L_CI-92	CI-92	MH-13	84.3000	84.2600	No Design
37	L_CI-93	CI-93	CI-94	83.0500	82.8800	No Design
38	L_CI-94	CI-94	MH-13	82.3800	82.0000	No Design
39	L_MH-13	MH-13	MHI-56	82.0000	81.6800	No Design
40	L_CI-96A	CI-96A	MHI-56	84.6600	84.5800	No Design
41	L_CI-95A	CI-95A	MHI-55	84.9100	84.8300	No Design
42	L_MHI-55	MHI-55	MHI-56	84.3300	83.7400	No Design
43	L_MHI-56	MHI-56	MH-12	81.6800	80.7800	No Design
44	L_MHI-54	MHI-54	JCT-54	78.0500	77.9600	No Design
45	L_CI-95B	CI-95B	MHI-57	84.5600	84.5000	No Design
46	L_MHI-57	MHI-57	MHI-58	84.0000	83.5400	No Design
47	L_MHI-58	MHI-58	MH-14	83.5400	83.5200	No Design
48	L_CI-96B	CI-96B	MH-14	84.2800	84.2500	No Design
49	L_MH-14	MH-14	MH-15	83.0200	82.5100	No Design
50	L_CI-98	CI-98	MH-15	83.4400	83.3800	No Design
51	L_CI-97	CI-97	MHI-59	83.7600	83.6500	No Design
52	L_MHI-59	MHI-59	MHI-60	82.6500	82.4500	No Design
53	L_MHI-60	MHI-60	MH-15	82.4500	82.4200	No Design
54	L_MH-15	MH-15	MH-16	80.6100	80.5100	No Design
55	L_CI-99	CI-99	CI-100	82.9600	82.9100	No Design
56	L_CI-100	CI-100	MH-16	82.9100	82.8200	No Design
57	L_MH-16	MH-16	MH-17	78.1200	77.7800	No Design
58	L_MH-17	MH-17	JCT-18A	76.0500	75.7900	No Design
59	L_CI-101	CI-101	CI-102	82.9600	82.7000	No Design
60	L_CI-102	CI-102	MH-19	81.7000	81.6100	No Design
61	L_MH-19	MH-19	JCT-19	81.6100	81.1500	No Design
62	L_CI-106	CI-106	MHI-66	82.6800	82.6200	No Design
63	L_MHI-66	MHI-66	MHI-65	82.1200	81.9200	No Design
64	L_CI-105	CI-105	MHI-65	82.0700	81.9600	No Design
65	L_CI-108	CI-108	MHI-64	81.9600	81.8500	No Design
66	L_MHI-64	MHI-64	MHI-63	81.3500	81.0900	No Design
67	L_CI-107B	CI-107B	MHI-63	82.0800	81.9900	No Design
68	L_CI-107A	CI-107A	MHI-61	81.9700	81.8600	No Design
69	L_MHI-61	MHI-61	MHI-63	81.3600	81.0900	No Design
70	L_MHI-63	MHI-63	MHI-65	80.0900	79.7800	No Design
71	L_MHI-65	MHI-65	MH-20	79.0200	78.8200	No Design
72	L_MHI-62	MHI-62	MH-20	80.3500	80.3200	No Design
73	L_CI-104	CI-104	MH-20	82.3300	82.2800	No Design
74	L_MH-20	MH-20	MH-18B	78.8200	78.0700	No Design
75	L_CI-103	CI-103	MH-18B	82.9100	82.8600	No Design
76	L_MH-18B	MH-18B	MH-18A	77.5700	76.8200	No Design
77	L_MH-18A	MH-18A	JCT-18A	76.8200	75.7900	No Design
78	L_CI-109	CI-109	CI-110	82.0900	81.8400	No Design
79	L_CI-110	CI-110	CI-111	81.3400	81.0900	No Design
80	L_CI-111	CI-111	MHI-68	81.0900	81.0000	No Design
81	L_CI-112A	CI-112A	CI-112B	81.8600	81.6100	No Design
82	L_CI-112B	CI-112B	CI-113	80.1100	79.9100	No Design
83	L_CI-113	CI-113	MHI-67	79.9100	79.8500	No Design
84	L_MHI-67	MHI-67	MHI-68	79.8500	79.4700	No Design
85	L_MHI-68	MHI-68	MHI-70	78.9700	78.5500	No Design
86	L_CI-114	CI-114	MHI-70	80.5200	80.4600	No Design
87	L_CI-115	CI-115	CI-114	81.1200	81.0200	No Design
88	L_CI-116	CI-116	MHI-69	80.5200	80.4600	No Design
89	L_CI-117	CI-117	CI-116	81.1200	81.0200	No Design
90	L_MHI-69	MHI-69	MHI-70	79.9600	79.7400	No Design
91	L_MHI-70	MHI-70	MHI-72	78.0500	76.6600	No Design
92	L_CI-129	CI-129	CI-128	81.1400	81.0400	No Design
93	L_CI-128	CI-128	MHI-76	80.5400	80.4900	No Design
94	L_CI-127	CI-127	MHI-75	79.9500	79.8600	No Design
95	L_MHI-75	MHI-75	MHI-76	79.3600	79.1200	No Design
96	L_MHI-76	MHI-76	MHI-74	78.6200	78.3600	No Design
97	L_CI-125	CI-125	MHI-74	81.0400	80.9500	No Design
98	L_CI-124	CI-124	MHI-73	81.5100	81.4100	No Design
99	L_MHI-73	MHI-73	MHI-74	80.9100	80.4900	No Design
100	L_MHI-74	MHI-74	MH-23	77.8600	77.3000	No Design
101	L_MH-23	MH-23	MHI-72	77.3000	76.8300	No Design
102	L_CI-122	CI-122	MHI-71	77.2800	77.2000	No Design
103	L_DI-15	DI-15	MH-21	81.2700	81.2500	No Design
104	L_MH-21	MH-21	MH-22	81.2500	81.1800	No Design
105	L_MH-22	MH-22	MHI-71	81.1800	80.9300	No Design
106	L_MH-71	MHI-71	MHI-72	77.2000	76.8400	No Design
107	L_MHI-72	MHI-72	JCT-72	74.1600	74.0600	No Design
108	L_CI-130	CI-130	CI-131	80.5200	80.0400	No Design
109	L_CI-131	CI-131	CI-132	79.5400	79.4000	No Design
110	L_CI-132	CI-132	MHI-78	78.9000	78.8300	No Design
111	L_CI-133	CI-133	CI-134	80.5200	80.0400	No Design
112	L_CI-134	CI-134	CI-135	79.5400	79.4000	No Design
113	L_CI-136	CI-136	CI-135	80.2300	79.9000	No Design
114	L_CI-135	CI-135	MHI-77	78.9000	78.7800	No Design
115	L_MHI-77	MHI-77	MHI-78	78.2800	78.0600	No Design
116	L_MHI-78	MHI-78	MHI-79	77.8300	77.2100	No Design
117	L_MHI-80	MHI-80	MHI-79	75.0800	74.4900	No Design
118	L_CI-145	CI-145	CI-144	79.7400	79.6200	No Design
119	L_CI-147	CI-147	CI-146	79.4100	79.1800	No Design
120	L_MH-29	MH-29	MH-30	79.0700	78.7600	No Design
121	L_MH-30	MH-30	MH-28	77.9000	77.6100	No Design
122	L_CI-142	CI-142	CI-143	80.0200	79.6200	No Design
123	L_CI-143	CI-143	MH-27	77.6200	77.4200	No Design
124	L_MH-27	MH-27	MH-28	77.4200	77.0200	No Design
125	L_CI-141	CI-141	MH-28	78.7900	78.6800	No Design
126	L_MH-28	MH-28	MH-26	76.1100	75.2100	No Design
127	L_CI-139	CI-139	CI-138	78.2700	78.0700	No Design
128	L_CI-138	CI-138	MH-26	78.0700	78.0000	No Design
129	L_MH-26	MH-26	MH-25	74.7100	74.3900	No Design
130	L_MH-25	MH-25	MHI-79	74.3900	73.8900	No Design
131	L_JCT137	JCT137	MHI-79X	71.8000	71.7300	No Design
132	L_CI-148	CI-148	CI-149	79.3900	78.7800	No Design
133	L_CI-149	CI-149	MHI-81	78.2800	78.1900	No Design
134	L_MHI-81A	MHI-81	MHI-82	77.6900	77.3400	No Design
135	L_MHI-82	MHI-82	MH-31	76.8400	76.7900	No Design
136	L_MH-31	MH-31	MH-32	76.7900	76.4300	No Design
137	L_CI-150	CI-150	MH-32	78.7200	78.6500	No Design
138	L_CI-151	CI-151	MHI-83	78.6500	78.5600	No Design
139	L_MHI-83	MHI-83	MHI-84	78.0600	77.4900	No Design
140	L_MHI-84	MHI-84	MH-32	76.9900	76.9300	No Design
141	L_MH-32	MH-32	MH-33	75.4300	74.7300	No Design
142	L_MH-33	MH-33	MH-36	74.7300	74.4800	No Design
143	L_CI-152	CI-152	CI-153	78.1400	77.7800	No Design
144	L_CI-153	CI-153	MH-33	77.7800	77.7100	No Design
145	L_CI-154	CI-154	CI-155	76.8900	76.5700	No Design
146	L_CI-155	CI-155	MH-34	76.0700	75.7200	No Design
147	L_CI-157	CI-157	CI-156	77.7200	77.4800	No Design
148	L_CI-156	CI-156	MH-34	76.9800	76.9100	No Design
149	L_MH-34	MH-34	MH-34A	75.2200	75.0100	No Design
150	L_CI-159	CI-159	CI-158	78.0500	77.7900	No Design
151	L_CI-158	CI-158	MH-35	77.2900	77.2400	No Design
152	L_CI-160	CI-160	MHI-85	78.3200	78.2400	No Design
153	L_MHI-85	MHI-85	MHI-86	77.7400	77.2700	No Design
154	L_MHI-86	MHI-86	MH-40	76.7700	76.7000	No Design
155	L_CI-161	CI-161	MH-40	76.3200	76.2500	No Design
156	L_MH-40	MH-40	MH-35	75.2500	74.0300	No Design
157	L_MH-35	MH-35	MH-36	73.0300	72.9200	No Design

158	L_MH-36	MH-36	G-4	71.4200	70.0700	No Design
159	L_CI-100B	CI-100B	CI-100A	82.0100	81.9300	No Design
160	L_CI-100A	CI-100A	MH-18	81.9300	81.7300	No Design
161	L_JCT-18A	JCT-18A	MH-18	71.8200	71.7700	No Design
162	L_CI-102A	CI-102A	JCT102A	81.7900	81.5600	No Design
163	L_JCT102A	JCT102A	JCT-19	72.1100	72.0600	No Design
164	L_CI-118	CI-118	JCT-72	78.1300	78.0600	No Design
165	L_CI-120	CI-120	CI-119	78.2900	78.1400	No Design
166	L_CI-119	CI-119	JCT-72	77.6400	77.5600	No Design
167	L_JCT-72	JCT-72	MHI-72X	74.0600	73.9600	No Design
168	L_CI-126	CI-126	MH-24	81.0400	80.9900	No Design
169	L_MH-24	MH-24	CI-127	79.9900	79.9500	No Design
170	L_CI-137	CI-137	JCT137	75.9700	75.7300	No Design
171	L_CI-144	CI-144	MH-29	79.1200	79.0700	No Design
172	L_CI-146	CI-146	MH-30	78.6700	78.4000	No Design
173	L_CI-155A	CI-155A	CI-155B	77.3500	77.1900	No Design
174	L_CI-155B	CI-155B	MH-34A	77.1900	77.1400	No Design
175	L_MH-34A	MH-34A	MH-35	75.0100	74.6300	No Design
176	L_CI-75	CI-75	CI-76	85.5900	85.3600	No Design
177	L_CI-78A	CI-78A	JCT-78A	84.3500	83.9900	No Design
178	L_JCT-78A	JCT-78A	B-3	81.4600	80.9400	No Design
179	L_CI-81A	CI-81A	CI-81	85.0800	85.0100	No Design
180	L_CI-88	CI-88	JCT-54	82.0600	81.9600	No Design
181	L_CI-90	CI-90	CI-89	82.1300	82.0300	No Design
182	L_CI-89	CI-89	JCT-54	81.5300	81.4600	No Design
183	Link687	CI-82A	MHI-50A	85.7100	85.6600	No Design
184	Link688	MHI-50A	MHI-50	85.6600	85.2600	No Design
185	L-JCT-54	JCT-54	MHI-54X	77.9600	77.8800	No Design
186	Link691	MH-12	MHI-54	80.7800	79.8000	No Design
187	L-JCT-19	JCT-19	JCT-18A	72.0600	71.8200	No Design
188	L-MHI-79	MHI-79	JCT137	71.8800	71.8000	No Design
189	Link700	CI-140	CI-139	78.9900	78.7700	No Design
190	Link714	CI-83	MHI-51	85.6300	85.5800	No Design
191	Link715	CI-121	CI-122	80.9500	80.8500	No Design
192	L-MHI-72X	MHI-72X	E-2	73.9600	73.9600	No Design
193	L-C-2	C-1	C-2	82.4400	77.8800	No Design
194	L-F-1	F-1	SYS-F-OUT	74.1200	73.6900	No Design
195	L-B-3	B-3	B-2	82.3400	82.1800	No Design
196	L-B-4	B-4	B-3	83.2000	82.3400	No Design
197	L-B-5	B-5	B-4	83.3900	83.2000	No Design
198	L-MH-D2	MH-D2	JCT102A	72.2600	72.1100	No Design
199	L-B-6	B-6	B-5	83.8600	83.3900	No Design
200	L-B-1	B-1	SYS-B-OUT	81.2100	79.2600	No Design
201	L-B-2	B-2	B-1	82.1800	81.2100	No Design
202	L-MHI-54X	MHI-54X	C-2	77.8800	77.8800	No Design
203	L-C-1	C-1	SYS-C-OUT	82.4400	82.3100	No Design
204	L-MH-18	MH-18	D-1	71.7700	71.6600	No Design
205	L-E-2	E-1	E-2	78.3200	73.9600	No Design
206	L-E-1	E-1	SYS-E-OUT	78.3200	78.0000	No Design
207	L-D-1	D-1	SYS-D-OUT	71.6600	70.9600	No Design
208	L-MHI-79X	MHI-79X	F-1	71.7300	71.7300	No Design
209	L-G-4	G-4	G-3	69.5700	69.2700	No Design
210	L-G-2	G-2	G-1	68.5100	68.2100	No Design
211	L-G-1	G-1	SYS-G-OUT	68.2100	68.1100	No Design
212	L-G-3	G-3	G-2	68.7700	68.5100	No Design
213	L-F-OFF	F-OFFSITE	MHI-80	75.2200	75.0800	No Design
214	L_MH-B1	MH-B1	MH-B2	80.9200	80.7600	No Design
215	L_MH-B2	MH-B2	MHI-50S	80.7600	80.5500	No Design
216	Link741	MHI-50S	MHI-50	80.2600	79.7700	No Design

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====> Warning !!! Node: B-1              Area = 0.0 at stage      7.790  Area reset to      0.000
====> Warning !!! Node: C-1              Area = 0.0 at stage      6.560  Area reset to      0.000
====> Warning !!! Node: E-1              Area = 0.0 at stage      7.680  Area reset to      0.000
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| Storage Junction Data |
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STORAGE JUNCTION NUMBER OR NAME	JUNCTION TYPE	MAXIMUM OR CONSTANT SURFACE AREA (FT2)	PEAK OR CONSTANT VOLUME (CUBIC FEET)	CROWN ELEVATION (FT)	DEPTH STARTS FROM
CI-120	Stage/Area	9452.5200	54000.5540	84.4400	Spill Crest
CI-135	Stage/Area	9452.5200	50692.1720	84.7000	Spill Crest
CI-158	Stage/Area	9452.5200	48329.0420	82.8400	Spill Crest
CI-156	Stage/Area	9452.5200	45209.7104	82.2000	Spill Crest
CI-155	Stage/Area	9452.5200	53055.3020	82.1200	Spill Crest
CI-153	Stage/Area	9452.5200	43697.3072	82.8400	Spill Crest
CI-146	Stage/Area	9452.5200	36324.3416	82.9500	Spill Crest
CI-143	Stage/Area	9452.5200	62035.1960	84.6200	Spill Crest
CI-128	Stage/Area	9452.5200	44548.0340	85.6900	Spill Crest
CI-126	Stage/Area	9452.5200	31125.4556	84.7700	Spill Crest
CI-122	Stage/Area	9452.5200	79144.2572	86.0900	Spill Crest
CI-116	Stage/Area	9452.5200	48518.0924	86.0900	Spill Crest
CI-114	Stage/Area	9452.5200	48518.0924	86.0900	Spill Crest
CI-105	Stage/Area	9452.5200	43602.7820	87.1200	Spill Crest
CI-102	Stage/Area	9452.5200	53055.3020	87.7500	Spill Crest
CI-100	Stage/Area	9452.5200	43602.7820	87.9600	Spill Crest
CI-94	Stage/Area	9452.5200	58159.6628	88.9700	Spill Crest
CI-92	Stage/Area	9452.5200	37553.1692	88.7100	Spill Crest
CI-141	Stage/Area	9452.5200	43602.7820	83.8400	Spill Crest
CI-132	Stage/Area	9452.5200	50692.1720	84.7000	Spill Crest
DI-15	Stage/Area	12457.9509	38129.5269	84.9900	Spill Crest
CI-82	Stage/Area	9452.5200	50125.0208	91.0000	Spill Crest
CI-86	Stage/Area	9452.5200	52960.7768	89.9600	Spill Crest
CI-89	Stage/Area	9452.5200	73472.7452	89.7400	Spill Crest
CI-80	Stage/Area	9452.5200	58065.1376	90.5900	Spill Crest
CI-77B	Stage/Area	9452.5200	43035.6308	89.8100	Spill Crest
CI-73A	Stage/Area	9452.5200	39443.6732	90.4200	Spill Crest
CI-107B	Stage/Area	9452.5200	43508.2568	87.1200	Spill Crest
B-1	Stage/Area	136342.8000	603891.9149	93.0000	Spill Crest
C-1	Stage/Area	260488.8000	1.431659E+06	95.0000	Node Invert
E-1	Stage/Area	450410.4000	2.070108E+06	91.1000	Node Invert

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| Variable storage data for node | CI-120
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	78.2900	0.0000	4.3560	0.0000	0.0001	0.0000
2	78.3150	0.0250	150.8265	1.5068	0.0035	0.0000
3	78.3400	0.0500	297.2970	7.0058	0.0068	0.0002
4	78.3650	0.0750	443.7675	16.2082	0.0102	0.0004
5	78.3900	0.1000	590.2380	29.0898	0.0135	0.0007
6	78.4150	0.1250	736.7085	45.6428	0.0169	0.0010
7	78.4400	0.1500	883.1790	65.8638	0.0203	0.0015
8	78.4650	0.1750	1029.6495	89.7507	0.0236	0.0021
9	78.4900	0.2000	1176.1200	117.3026	0.0270	0.0027
10	78.5150	0.2250	1475.5950	150.3783	0.0339	0.0035
11	78.5400	0.2500	1775.0700	190.9540	0.0408	0.0044
12	78.5650	0.2750	2074.5450	239.0256	0.0476	0.0055
13	78.5900	0.3000	2374.0200	294.5906	0.0545	0.0068
14	78.6150	0.3250	2673.4950	357.6475	0.0614	0.0082
15	78.6400	0.3500	2972.9700	428.1952	0.0683	0.0098
16	78.6650	0.3750	3272.4450	506.2330	0.0751	0.0116
17	78.6900	0.4000	3571.9200	591.7602	0.0820	0.0136
18	78.7025	0.4125	3773.3850	637.6626	0.0866	0.0146

19	78.7150	0.4250	3974.8500	686.0836	0.0912	0.0158
20	78.7275	0.4375	4176.3150	737.0232	0.0959	0.0169
21	78.7400	0.4500	4377.7800	790.4814	0.1005	0.0181
22	78.7525	0.4625	4579.2450	846.4581	0.1051	0.0194
23	78.7650	0.4750	4780.7100	904.9533	0.1098	0.0208
24	78.7775	0.4875	4982.1750	965.9670	0.1144	0.0222
25	78.7900	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	78.8025	0.5125	5439.5550	1095.8877	0.1249	0.0252
27	78.8150	0.5250	5695.4700	1165.4755	0.1308	0.0268
28	78.8275	0.5375	5951.3850	1238.2625	0.1366	0.0284
29	78.8400	0.5500	6207.3000	1314.2486	0.1425	0.0302
30	78.8525	0.5625	6463.2150	1393.4340	0.1484	0.0320
31	78.8650	0.5750	6719.1300	1475.8184	0.1542	0.0339
32	78.8775	0.5875	6975.0450	1561.4020	0.1601	0.0358
33	78.8900	0.6000	7230.9600	1650.1848	0.1660	0.0379
34	78.9025	0.6125	7508.6550	1742.3019	0.1724	0.0400
35	78.9150	0.6250	7786.3500	1837.8905	0.1788	0.0422
36	78.9275	0.6375	8064.0450	1936.9504	0.1851	0.0445
37	78.9400	0.6500	8341.7400	2039.4816	0.1915	0.0468
38	78.9525	0.6625	8619.4350	2145.4842	0.1979	0.0493
39	78.9650	0.6750	8897.1300	2254.9582	0.2042	0.0518
40	78.9775	0.6875	9174.8250	2367.9034	0.2106	0.0544
41	78.9900	0.7000	9452.5200	2484.3200	0.2170	0.0570
42	84.4400	6.1500	9452.5200	54000.5540	0.2170	1.2397

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| Variable storage data for node | CI-135
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	78.9000	0.0000	4.3560	0.0000	0.0001	0.0000
2	78.9250	0.0250	150.8265	1.5068	0.0035	0.0000
3	78.9500	0.0500	297.2970	7.0058	0.0068	0.0002
4	78.9750	0.0750	443.7675	16.2082	0.0102	0.0004
5	79.0000	0.1000	590.2380	29.0898	0.0135	0.0007
6	79.0250	0.1250	736.7085	45.6428	0.0169	0.0010
7	79.0500	0.1500	883.1790	65.8638	0.0203	0.0015
8	79.0750	0.1750	1029.6495	89.7507	0.0236	0.0021
9	79.1000	0.2000	1176.1200	117.3026	0.0270	0.0027
10	79.1250	0.2250	1475.5950	150.3783	0.0339	0.0035
11	79.1500	0.2500	1775.0700	190.9540	0.0408	0.0044
12	79.1750	0.2750	2074.5450	239.0256	0.0476	0.0055
13	79.2000	0.3000	2374.0200	294.5906	0.0545	0.0068
14	79.2250	0.3250	2673.4950	357.6475	0.0614	0.0082
15	79.2500	0.3500	2972.9700	428.1952	0.0683	0.0098
16	79.2750	0.3750	3272.4450	506.2330	0.0751	0.0116
17	79.3000	0.4000	3571.9200	591.7602	0.0820	0.0136
18	79.3125	0.4125	3773.3850	637.6626	0.0866	0.0146
19	79.3250	0.4250	3974.8500	686.0836	0.0912	0.0158
20	79.3375	0.4375	4176.3150	737.0232	0.0959	0.0169
21	79.3500	0.4500	4377.7800	790.4814	0.1005	0.0181
22	79.3625	0.4625	4579.2450	846.4581	0.1051	0.0194
23	79.3750	0.4750	4780.7100	904.9533	0.1098	0.0208
24	79.3875	0.4875	4982.1750	965.9670	0.1144	0.0222
25	79.4000	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	79.4125	0.5125	5439.5550	1095.8877	0.1249	0.0252
27	79.4250	0.5250	5695.4700	1165.4755	0.1308	0.0268
28	79.4375	0.5375	5951.3850	1238.2625	0.1366	0.0284
29	79.4500	0.5500	6207.3000	1314.2486	0.1425	0.0302
30	79.4625	0.5625	6463.2150	1393.4340	0.1484	0.0320
31	79.4750	0.5750	6719.1300	1475.8184	0.1542	0.0339
32	79.4875	0.5875	6975.0450	1561.4020	0.1601	0.0358
33	79.5000	0.6000	7230.9600	1650.1848	0.1660	0.0379
34	79.5125	0.6125	7508.6550	1742.3019	0.1724	0.0400
35	79.5250	0.6250	7786.3500	1837.8905	0.1788	0.0422
36	79.5375	0.6375	8064.0450	1936.9504	0.1851	0.0445
37	79.5500	0.6500	8341.7400	2039.4816	0.1915	0.0468
38	79.5625	0.6625	8619.4350	2145.4842	0.1979	0.0493
39	79.5750	0.6750	8897.1300	2254.9582	0.2042	0.0518
40	79.5875	0.6875	9174.8250	2367.9034	0.2106	0.0544
41	79.6000	0.7000	9452.5200	2484.3200	0.2170	0.0570
42	84.7000	5.8000	9452.5200	50692.1720	0.2170	1.1637

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| Variable storage data for node | CI-158
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	77.2900	0.0000	4.3560	0.0000	0.0001	0.0000
2	77.3150	0.0250	150.8265	1.5068	0.0035	0.0000
3	77.3400	0.0500	297.2970	7.0058	0.0068	0.0002
4	77.3650	0.0750	443.7675	16.2082	0.0102	0.0004
5	77.3900	0.1000	590.2380	29.0898	0.0135	0.0007
6	77.4150	0.1250	736.7085	45.6428	0.0169	0.0010
7	77.4400	0.1500	883.1790	65.8638	0.0203	0.0015
8	77.4650	0.1750	1029.6495	89.7507	0.0236	0.0021
9	77.4900	0.2000	1176.1200	117.3026	0.0270	0.0027
10	77.5150	0.2250	1475.5950	150.3783	0.0339	0.0035
11	77.5400	0.2500	1775.0700	190.9540	0.0408	0.0044
12	77.5650	0.2750	2074.5450	239.0256	0.0476	0.0055
13	77.5900	0.3000	2374.0200	294.5906	0.0545	0.0068
14	77.6150	0.3250	2673.4950	357.6475	0.0614	0.0082
15	77.6400	0.3500	2972.9700	428.1952	0.0683	0.0098
16	77.6650	0.3750	3272.4450	506.2330	0.0751	0.0116
17	77.6900	0.4000	3571.9200	591.7602	0.0820	0.0136
18	77.7025	0.4125	3773.3850	637.6626	0.0866	0.0146
19	77.7150	0.4250	3974.8500	686.0836	0.0912	0.0158
20	77.7275	0.4375	4176.3150	737.0232	0.0959	0.0169
21	77.7400	0.4500	4377.7800	790.4814	0.1005	0.0181
22	77.7525	0.4625	4579.2450	846.4581	0.1051	0.0194
23	77.7650	0.4750	4780.7100	904.9533	0.1098	0.0208
24	77.7775	0.4875	4982.1750	965.9670	0.1144	0.0222
25	77.7900	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	77.8025	0.5125	5439.5550	1095.8877	0.1249	0.0252
27	77.8150	0.5250	5695.4700	1165.4755	0.1308	0.0268
28	77.8275	0.5375	5951.3850	1238.2625	0.1366	0.0284
29	77.8400	0.5500	6207.3000	1314.2486	0.1425	0.0302
30	77.8525	0.5625	6463.2150	1393.4340	0.1484	0.0320
31	77.8650	0.5750	6719.1300	1475.8184	0.1542	0.0339
32	77.8775	0.5875	6975.0450	1561.4020	0.1601	0.0358
33	77.8900	0.6000	7230.9600	1650.1848	0.1660	0.0379
34	77.9025	0.6125	7508.6550	1742.3019	0.1724	0.0400
35	77.9150	0.6250	7786.3500	1837.8905	0.1788	0.0422
36	77.9275	0.6375	8064.0450	1936.9504	0.1851	0.0445
37	77.9400	0.6500	8341.7400	2039.4816	0.1915	0.0468
38	77.9525	0.6625	8619.4350	2145.4842	0.1979	0.0493
39	77.9650	0.6750	8897.1300	2254.9582	0.2042	0.0518
40	77.9775	0.6875	9174.8250	2367.9034	0.2106	0.0544
41	77.9900	0.7000	9452.5200	2484.3200	0.2170	0.0570
42	82.8400	5.5500	9452.5200	48329.0420	0.2170	1.1095

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| Variable storage data for node | CI-156
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft

1	76.9800	0.0000	4.3560	0.0000	0.0001	0.0000
2	77.0050	0.0250	150.8265	1.5068	0.0035	0.0000
3	77.0300	0.0500	297.2970	7.0058	0.0068	0.0002
4	77.0550	0.0750	443.7675	16.2082	0.0102	0.0004
5	77.0800	0.1000	590.2380	29.0898	0.0135	0.0007
6	77.1050	0.1250	736.7085	45.6428	0.0169	0.0010
7	77.1300	0.1500	883.1790	65.8638	0.0203	0.0015
8	77.1550	0.1750	1029.6495	89.7507	0.0236	0.0021
9	77.1800	0.2000	1176.1200	117.3026	0.0270	0.0027
10	77.2050	0.2250	1475.5950	150.3783	0.0339	0.0035
11	77.2300	0.2500	1775.0700	190.9540	0.0408	0.0044
12	77.2550	0.2750	2074.5450	239.0256	0.0476	0.0055
13	77.2800	0.3000	2374.0200	294.5906	0.0545	0.0068
14	77.3050	0.3250	2673.4950	357.6475	0.0614	0.0082
15	77.3300	0.3500	2972.9700	428.1952	0.0683	0.0098
16	77.3550	0.3750	3272.4450	506.2330	0.0751	0.0116
17	77.3800	0.4000	3571.9200	591.7602	0.0820	0.0136
18	77.3925	0.4125	3773.3850	637.6626	0.0866	0.0146
19	77.4050	0.4250	3974.8500	686.0836	0.0912	0.0158
20	77.4175	0.4375	4176.3150	737.0232	0.0959	0.0169
21	77.4300	0.4500	4377.7800	790.4814	0.1005	0.0181
22	77.4425	0.4625	4579.2450	846.4581	0.1051	0.0194
23	77.4550	0.4750	4780.7100	904.9533	0.1098	0.0208
24	77.4675	0.4875	4982.1750	965.9670	0.1144	0.0222
25	77.4800	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	77.4925	0.5125	5439.5550	1095.8877	0.1249	0.0252
27	77.5050	0.5250	5695.4700	1165.4755	0.1308	0.0268
28	77.5175	0.5375	5951.3850	1238.2625	0.1366	0.0284
29	77.5300	0.5500	6207.3000	1314.2486	0.1425	0.0302
30	77.5425	0.5625	6463.2150	1393.4340	0.1484	0.0320
31	77.5550	0.5750	6719.1300	1475.8184	0.1542	0.0339
32	77.5675	0.5875	6975.0450	1561.4020	0.1601	0.0358
33	77.5800	0.6000	7230.9600	1650.1848	0.1660	0.0379
34	77.5925	0.6125	7508.6550	1742.3019	0.1724	0.0400
35	77.6050	0.6250	7786.3500	1837.8905	0.1788	0.0422
36	77.6175	0.6375	8064.0450	1936.9504	0.1851	0.0445
37	77.6300	0.6500	8341.7400	2039.4816	0.1915	0.0468
38	77.6425	0.6625	8619.4350	2145.4842	0.1979	0.0493
39	77.6550	0.6750	8897.1300	2254.9582	0.2042	0.0518
40	77.6675	0.6875	9174.8250	2367.9034	0.2106	0.0544
41	77.6800	0.7000	9452.5200	2484.3200	0.2170	0.0570
42	82.2000	5.2200	9452.5200	45209.7104	0.2170	1.0379

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| Variable storage data for node | CI-155
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	76.0700	0.0000	4.3560	0.0000	0.0001	0.0000
2	76.0950	0.0250	150.8265	1.5068	0.0035	0.0000
3	76.1200	0.0500	297.2970	7.0058	0.0068	0.0002
4	76.1450	0.0750	443.7675	16.2082	0.0102	0.0004
5	76.1700	0.1000	590.2380	29.0898	0.0135	0.0007
6	76.1950	0.1250	736.7085	45.6428	0.0169	0.0010
7	76.2200	0.1500	883.1790	65.8638	0.0203	0.0015
8	76.2450	0.1750	1029.6495	89.7507	0.0236	0.0021
9	76.2700	0.2000	1176.1200	117.3026	0.0270	0.0027
10	76.2950	0.2250	1475.5950	150.3783	0.0339	0.0035
11	76.3200	0.2500	1775.0700	190.9540	0.0408	0.0044
12	76.3450	0.2750	2074.5450	239.0256	0.0476	0.0055
13	76.3700	0.3000	2374.0200	294.5906	0.0545	0.0068
14	76.3950	0.3250	2673.4950	357.6475	0.0614	0.0082
15	76.4200	0.3500	2972.9700	428.1952	0.0683	0.0098
16	76.4450	0.3750	3272.4450	506.2330	0.0751	0.0116
17	76.4700	0.4000	3571.9200	591.7602	0.0820	0.0136
18	76.4825	0.4125	3773.3850	637.6626	0.0866	0.0146
19	76.4950	0.4250	3974.8500	686.0836	0.0912	0.0158
20	76.5075	0.4375	4176.3150	737.0232	0.0959	0.0169
21	76.5200	0.4500	4377.7800	790.4814	0.1005	0.0181
22	76.5325	0.4625	4579.2450	846.4581	0.1051	0.0194
23	76.5450	0.4750	4780.7100	904.9533	0.1098	0.0208
24	76.5575	0.4875	4982.1750	965.9670	0.1144	0.0222
25	76.5700	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	76.5825	0.5125	5439.5550	1095.8877	0.1249	0.0252
27	76.5950	0.5250	5695.4700	1165.4755	0.1308	0.0268
28	76.6075	0.5375	5951.3850	1238.2625	0.1366	0.0284
29	76.6200	0.5500	6207.3000	1314.2486	0.1425	0.0302
30	76.6325	0.5625	6463.2150	1393.4340	0.1484	0.0320
31	76.6450	0.5750	6719.1300	1475.8184	0.1542	0.0339
32	76.6575	0.5875	6975.0450	1561.4020	0.1601	0.0358
33	76.6700	0.6000	7230.9600	1650.1848	0.1660	0.0379
34	76.6825	0.6125	7508.6550	1742.3019	0.1724	0.0400
35	76.6950	0.6250	7786.3500	1837.8905	0.1788	0.0422
36	76.7075	0.6375	8064.0450	1936.9504	0.1851	0.0445
37	76.7200	0.6500	8341.7400	2039.4816	0.1915	0.0468
38	76.7325	0.6625	8619.4350	2145.4842	0.1979	0.0493
39	76.7450	0.6750	8897.1300	2254.9582	0.2042	0.0518
40	76.7575	0.6875	9174.8250	2367.9034	0.2106	0.0544
41	76.7700	0.7000	9452.5200	2484.3200	0.2170	0.0570
42	82.1200	6.0500	9452.5200	53055.3020	0.2170	1.2180

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| Variable storage data for node | CI-153
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	77.7800	0.0000	4.3560	0.0000	0.0001	0.0000
2	77.8050	0.0250	150.8265	1.5068	0.0035	0.0000
3	77.8300	0.0500	297.2970	7.0058	0.0068	0.0002
4	77.8550	0.0750	443.7675	16.2082	0.0102	0.0004
5	77.8800	0.1000	590.2380	29.0898	0.0135	0.0007
6	77.9050	0.1250	736.7085	45.6428	0.0169	0.0010
7	77.9300	0.1500	883.1790	65.8638	0.0203	0.0015
8	77.9550	0.1750	1029.6495	89.7507	0.0236	0.0021
9	77.9800	0.2000	1176.1200	117.3026	0.0270	0.0027
10	78.0050	0.2250	1475.5950	150.3783	0.0339	0.0035
11	78.0300	0.2500	1775.0700	190.9540	0.0408	0.0044
12	78.0550	0.2750	2074.5450	239.0256	0.0476	0.0055
13	78.0800	0.3000	2374.0200	294.5906	0.0545	0.0068
14	78.1050	0.3250	2673.4950	357.6475	0.0614	0.0082
15	78.1300	0.3500	2972.9700	428.1952	0.0683	0.0098
16	78.1550	0.3750	3272.4450	506.2330	0.0751	0.0116
17	78.1800	0.4000	3571.9200	591.7602	0.0820	0.0136
18	78.1925	0.4125	3773.3850	637.6626	0.0866	0.0146
19	78.2050	0.4250	3974.8500	686.0836	0.0912	0.0158
20	78.2175	0.4375	4176.3150	737.0232	0.0959	0.0169
21	78.2300	0.4500	4377.7800	790.4814	0.1005	0.0181
22	78.2425	0.4625	4579.2450	846.4581	0.1051	0.0194
23	78.2550	0.4750	4780.7100	904.9533	0.1098	0.0208
24	78.2675	0.4875	4982.1750	965.9670	0.1144	0.0222
25	78.2800	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	78.2925	0.5125	5439.5550	1095.8877	0.1249	0.0252
27	78.3050	0.5250	5695.4700	1165.4755	0.1308	0.0268
28	78.3175	0.5375	5951.3850	1238.2625	0.1366	0.0284
29	78.3300	0.5500	6207.3000	1314.2486	0.1425	0.0302

30	78.3425	0.5625	6463.2150	1393.4340	0.1484	0.0320
31	78.3550	0.5750	6719.1300	1475.8184	0.1542	0.0339
32	78.3675	0.5875	6975.0450	1561.4020	0.1601	0.0358
33	78.3800	0.6000	7230.9600	1650.1848	0.1660	0.0379
34	78.3925	0.6125	7508.6550	1742.3019	0.1724	0.0400
35	78.4050	0.6250	7786.3500	1837.8905	0.1788	0.0422
36	78.4175	0.6375	8064.0450	1936.9504	0.1851	0.0445
37	78.4300	0.6500	8341.7400	2039.4816	0.1915	0.0468
38	78.4425	0.6625	8619.4350	2145.4842	0.1979	0.0493
39	78.4550	0.6750	8897.1300	2254.9582	0.2042	0.0518
40	78.4675	0.6875	9174.8250	2367.9034	0.2106	0.0544
41	78.4800	0.7000	9452.5200	2484.3200	0.2170	0.0570
42	82.8400	5.0600	9452.5200	43697.3072	0.2170	1.0032

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| Variable storage data for node | CI-146
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	78.6700	0.0000	4.3560	0.0000	0.0001	0.0000
2	78.6950	0.0250	150.8265	1.5068	0.0035	0.0000
3	78.7200	0.0500	297.2970	7.0058	0.0068	0.0002
4	78.7450	0.0750	443.7675	16.2082	0.0102	0.0004
5	78.7700	0.1000	590.2380	29.0898	0.0135	0.0007
6	78.7950	0.1250	736.7085	45.6428	0.0169	0.0010
7	78.8200	0.1500	883.1790	65.8638	0.0203	0.0015
8	78.8450	0.1750	1029.6495	89.7507	0.0236	0.0021
9	78.8700	0.2000	1176.1200	117.3026	0.0270	0.0027
10	78.8950	0.2250	1475.5950	150.3783	0.0339	0.0035
11	78.9200	0.2500	1775.0700	190.9540	0.0408	0.0044
12	78.9450	0.2750	2074.5450	239.0256	0.0476	0.0055
13	78.9700	0.3000	2374.0200	294.5906	0.0545	0.0068
14	78.9950	0.3250	2673.4950	357.6475	0.0614	0.0082
15	79.0200	0.3500	2972.9700	428.1952	0.0683	0.0098
16	79.0450	0.3750	3272.4450	506.2330	0.0751	0.0116
17	79.0700	0.4000	3571.9200	591.7602	0.0820	0.0136
18	79.0825	0.4125	3773.3850	637.6626	0.0866	0.0146
19	79.0950	0.4250	3974.8500	686.0836	0.0912	0.0158
20	79.1075	0.4375	4176.3150	737.0232	0.0959	0.0169
21	79.1200	0.4500	4377.7800	790.4814	0.1005	0.0181
22	79.1325	0.4625	4579.2450	846.4581	0.1051	0.0194
23	79.1450	0.4750	4780.7100	904.9533	0.1098	0.0208
24	79.1575	0.4875	4982.1750	965.9670	0.1144	0.0222
25	79.1700	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	79.1825	0.5125	5439.5550	1095.8877	0.1249	0.0252
27	79.1950	0.5250	5695.4700	1165.4755	0.1308	0.0268
28	79.2075	0.5375	5951.3850	1238.2625	0.1366	0.0284
29	79.2200	0.5500	6207.3000	1314.2486	0.1425	0.0302
30	79.2325	0.5625	6463.2150	1393.4340	0.1484	0.0320
31	79.2450	0.5750	6719.1300	1475.8184	0.1542	0.0339
32	79.2575	0.5875	6975.0450	1561.4020	0.1601	0.0358
33	79.2700	0.6000	7230.9600	1650.1848	0.1660	0.0379
34	79.2825	0.6125	7508.6550	1742.3019	0.1724	0.0400
35	79.2950	0.6250	7786.3500	1837.8905	0.1788	0.0422
36	79.3075	0.6375	8064.0450	1936.9504	0.1851	0.0445
37	79.3200	0.6500	8341.7400	2039.4816	0.1915	0.0468
38	79.3325	0.6625	8619.4350	2145.4842	0.1979	0.0493
39	79.3450	0.6750	8897.1300	2254.9582	0.2042	0.0518
40	79.3575	0.6875	9174.8250	2367.9034	0.2106	0.0544
41	79.3700	0.7000	9452.5200	2484.3200	0.2170	0.0570
42	82.9500	4.2800	9452.5200	36324.3416	0.2170	0.8339

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| Variable storage data for node | CI-143
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	77.6200	0.0000	4.3560	0.0000	0.0001	0.0000
2	77.6450	0.0250	150.8265	1.5068	0.0035	0.0000
3	77.6700	0.0500	297.2970	7.0058	0.0068	0.0002
4	77.6950	0.0750	443.7675	16.2082	0.0102	0.0004
5	77.7200	0.1000	590.2380	29.0898	0.0135	0.0007
6	77.7450	0.1250	736.7085	45.6428	0.0169	0.0010
7	77.7700	0.1500	883.1790	65.8638	0.0203	0.0015
8	77.7950	0.1750	1029.6495	89.7507	0.0236	0.0021
9	77.8200	0.2000	1176.1200	117.3026	0.0270	0.0027
10	77.8450	0.2250	1475.5950	150.3783	0.0339	0.0035
11	77.8700	0.2500	1775.0700	190.9540	0.0408	0.0044
12	77.8950	0.2750	2074.5450	239.0256	0.0476	0.0055
13	77.9200	0.3000	2374.0200	294.5906	0.0545	0.0068
14	77.9450	0.3250	2673.4950	357.6475	0.0614	0.0082
15	77.9700	0.3500	2972.9700	428.1952	0.0683	0.0098
16	77.9950	0.3750	3272.4450	506.2330	0.0751	0.0116
17	78.0200	0.4000	3571.9200	591.7602	0.0820	0.0136
18	78.0325	0.4125	3773.3850	637.6626	0.0866	0.0146
19	78.0450	0.4250	3974.8500	686.0836	0.0912	0.0158
20	78.0575	0.4375	4176.3150	737.0232	0.0959	0.0169
21	78.0700	0.4500	4377.7800	790.4814	0.1005	0.0181
22	78.0825	0.4625	4579.2450	846.4581	0.1051	0.0194
23	78.0950	0.4750	4780.7100	904.9533	0.1098	0.0208
24	78.1075	0.4875	4982.1750	965.9670	0.1144	0.0222
25	78.1200	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	78.1325	0.5125	5439.5550	1095.8877	0.1249	0.0252
27	78.1450	0.5250	5695.4700	1165.4755	0.1308	0.0268
28	78.1575	0.5375	5951.3850	1238.2625	0.1366	0.0284
29	78.1700	0.5500	6207.3000	1314.2486	0.1425	0.0302
30	78.1825	0.5625	6463.2150	1393.4340	0.1484	0.0320
31	78.1950	0.5750	6719.1300	1475.8184	0.1542	0.0339
32	78.2075	0.5875	6975.0450	1561.4020	0.1601	0.0358
33	78.2200	0.6000	7230.9600	1650.1848	0.1660	0.0379
34	78.2325	0.6125	7508.6550	1742.3019	0.1724	0.0400
35	78.2450	0.6250	7786.3500	1837.8905	0.1788	0.0422
36	78.2575	0.6375	8064.0450	1936.9504	0.1851	0.0445
37	78.2700	0.6500	8341.7400	2039.4816	0.1915	0.0468
38	78.2825	0.6625	8619.4350	2145.4842	0.1979	0.0493
39	78.2950	0.6750	8897.1300	2254.9582	0.2042	0.0518
40	78.3075	0.6875	9174.8250	2367.9034	0.2106	0.0544
41	78.3200	0.7000	9452.5200	2484.3200	0.2170	0.0570
42	84.6200	7.0000	9452.5200	62035.1960	0.2170	1.4241

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| Variable storage data for node | CI-128
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	80.5400	0.0000	4.3560	0.0000	0.0001	0.0000
2	80.5650	0.0250	150.8265	1.5068	0.0035	0.0000
3	80.5900	0.0500	297.2970	7.0058	0.0068	0.0002
4	80.6150	0.0750	443.7675	16.2082	0.0102	0.0004
5	80.6400	0.1000	590.2380	29.0898	0.0135	0.0007
6	80.6650	0.1250	736.7085	45.6428	0.0169	0.0010
7	80.6900	0.1500	883.1790	65.8638	0.0203	0.0015
8	80.7150	0.1750	1029.6495	89.7507	0.0236	0.0021
9	80.7400	0.2000	1176.1200	117.3026	0.0270	0.0027
10	80.7650	0.2250	1475.5950	150.3783	0.0339	0.0035

11	80.7900	0.2500	1775.0700	190.9540	0.0408	0.0044
12	80.8150	0.2750	2074.5450	239.0256	0.0476	0.0055
13	80.8400	0.3000	2374.0200	294.5906	0.0545	0.0068
14	80.8650	0.3250	2673.4950	357.6475	0.0614	0.0082
15	80.8900	0.3500	2972.9700	428.1952	0.0683	0.0098
16	80.9150	0.3750	3272.4450	506.2330	0.0751	0.0116
17	80.9400	0.4000	3571.9200	591.7602	0.0820	0.0136
18	80.9525	0.4125	3773.3850	637.6626	0.0866	0.0146
19	80.9650	0.4250	3974.8500	686.0836	0.0912	0.0158
20	80.9775	0.4375	4176.3150	737.0232	0.0959	0.0169
21	80.9900	0.4500	4377.7800	790.4814	0.1005	0.0181
22	81.0025	0.4625	4579.2450	846.4581	0.1051	0.0194
23	81.0150	0.4750	4780.7100	904.9533	0.1098	0.0208
24	81.0275	0.4875	4982.1750	965.9670	0.1144	0.0222
25	81.0400	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	81.0525	0.5125	5439.5550	1095.8877	0.1249	0.0252
27	81.0650	0.5250	5695.4700	1165.4755	0.1308	0.0268
28	81.0775	0.5375	5951.3850	1238.2625	0.1366	0.0284
29	81.0900	0.5500	6207.3000	1314.2486	0.1425	0.0302
30	81.1025	0.5625	6463.2150	1393.4340	0.1484	0.0320
31	81.1150	0.5750	6719.1300	1475.8184	0.1542	0.0339
32	81.1275	0.5875	6975.0450	1561.4020	0.1601	0.0358
33	81.1400	0.6000	7230.9600	1650.1848	0.1660	0.0379
34	81.1525	0.6125	7508.6550	1742.3019	0.1724	0.0400
35	81.1650	0.6250	7786.3500	1837.8905	0.1788	0.0422
36	81.1775	0.6375	8064.0450	1936.9504	0.1851	0.0445
37	81.1900	0.6500	8341.7400	2039.4816	0.1915	0.0468
38	81.2025	0.6625	8619.4350	2145.4842	0.1979	0.0493
39	81.2150	0.6750	8897.1300	2254.9582	0.2042	0.0518
40	81.2275	0.6875	9174.8250	2367.9034	0.2106	0.0544
41	81.2400	0.7000	9452.5200	2484.3200	0.2170	0.0570
42	85.6900	5.1500	9452.5200	44548.0340	0.2170	1.0227

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| Variable storage data for node | CI-126
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	81.0400	0.0000	4.3560	0.0000	0.0001	0.0000
2	81.0650	0.0250	150.8265	1.5068	0.0035	0.0000
3	81.0900	0.0500	297.2970	7.0058	0.0068	0.0002
4	81.1150	0.0750	443.7675	16.2082	0.0102	0.0004
5	81.1400	0.1000	590.2380	29.0898	0.0135	0.0007
6	81.1650	0.1250	736.7085	45.6428	0.0169	0.0010
7	81.1900	0.1500	883.1790	65.8638	0.0203	0.0015
8	81.2150	0.1750	1029.6495	89.7507	0.0236	0.0021
9	81.2400	0.2000	1176.1200	117.3026	0.0270	0.0027
10	81.2650	0.2250	1475.5950	150.3783	0.0339	0.0035
11	81.2900	0.2500	1775.0700	190.9540	0.0408	0.0044
12	81.3150	0.2750	2074.5450	239.0256	0.0476	0.0055
13	81.3400	0.3000	2374.0200	294.5906	0.0545	0.0068
14	81.3650	0.3250	2673.4950	357.6475	0.0614	0.0082
15	81.3900	0.3500	2972.9700	428.1952	0.0683	0.0098
16	81.4150	0.3750	3272.4450	506.2330	0.0751	0.0116
17	81.4400	0.4000	3571.9200	591.7602	0.0820	0.0136
18	81.4525	0.4125	3773.3850	637.6626	0.0866	0.0146
19	81.4650	0.4250	3974.8500	686.0836	0.0912	0.0158
20	81.4775	0.4375	4176.3150	737.0232	0.0959	0.0169
21	81.4900	0.4500	4377.7800	790.4814	0.1005	0.0181
22	81.5025	0.4625	4579.2450	846.4581	0.1051	0.0194
23	81.5150	0.4750	4780.7100	904.9533	0.1098	0.0208
24	81.5275	0.4875	4982.1750	965.9670	0.1144	0.0222
25	81.5400	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	81.5525	0.5125	5439.5550	1095.8877	0.1249	0.0252
27	81.5650	0.5250	5695.4700	1165.4755	0.1308	0.0268
28	81.5775	0.5375	5951.3850	1238.2625	0.1366	0.0284
29	81.5900	0.5500	6207.3000	1314.2486	0.1425	0.0302
30	81.6025	0.5625	6463.2150	1393.4340	0.1484	0.0320
31	81.6150	0.5750	6719.1300	1475.8184	0.1542	0.0339
32	81.6275	0.5875	6975.0450	1561.4020	0.1601	0.0358
33	81.6400	0.6000	7230.9600	1650.1848	0.1660	0.0379
34	81.6525	0.6125	7508.6550	1742.3019	0.1724	0.0400
35	81.6650	0.6250	7786.3500	1837.8905	0.1788	0.0422
36	81.6775	0.6375	8064.0450	1936.9504	0.1851	0.0445
37	81.6900	0.6500	8341.7400	2039.4816	0.1915	0.0468
38	81.7025	0.6625	8619.4350	2145.4842	0.1979	0.0493
39	81.7150	0.6750	8897.1300	2254.9582	0.2042	0.0518
40	81.7275	0.6875	9174.8250	2367.9034	0.2106	0.0544
41	81.7400	0.7000	9452.5200	2484.3200	0.2170	0.0570
42	84.7700	3.7300	9452.5200	31125.4556	0.2170	0.7145

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| Variable storage data for node | CI-122
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	77.2800	0.0000	4.3560	0.0000	0.0001	0.0000
2	77.3050	0.0250	150.8265	1.5068	0.0035	0.0000
3	77.3300	0.0500	297.2970	7.0058	0.0068	0.0002
4	77.3550	0.0750	443.7675	16.2082	0.0102	0.0004
5	77.3800	0.1000	590.2380	29.0898	0.0135	0.0007
6	77.4050	0.1250	736.7085	45.6428	0.0169	0.0010
7	77.4300	0.1500	883.1790	65.8638	0.0203	0.0015
8	77.4550	0.1750	1029.6495	89.7507	0.0236	0.0021
9	77.4800	0.2000	1176.1200	117.3026	0.0270	0.0027
10	77.5050	0.2250	1475.5950	150.3783	0.0339	0.0035
11	77.5300	0.2500	1775.0700	190.9540	0.0408	0.0044
12	77.5550	0.2750	2074.5450	239.0256	0.0476	0.0055
13	77.5800	0.3000	2374.0200	294.5906	0.0545	0.0068
14	77.6050	0.3250	2673.4950	357.6475	0.0614	0.0082
15	77.6300	0.3500	2972.9700	428.1952	0.0683	0.0098
16	77.6550	0.3750	3272.4450	506.2330	0.0751	0.0116
17	77.6800	0.4000	3571.9200	591.7602	0.0820	0.0136
18	77.6925	0.4125	3773.3850	637.6626	0.0866	0.0146
19	77.7050	0.4250	3974.8500	686.0836	0.0912	0.0158
20	77.7175	0.4375	4176.3150	737.0232	0.0959	0.0169
21	77.7300	0.4500	4377.7800	790.4814	0.1005	0.0181
22	77.7425	0.4625	4579.2450	846.4581	0.1051	0.0194
23	77.7550	0.4750	4780.7100	904.9533	0.1098	0.0208
24	77.7675	0.4875	4982.1750	965.9670	0.1144	0.0222
25	77.7800	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	77.7925	0.5125	5439.5550	1095.8877	0.1249	0.0252
27	77.8050	0.5250	5695.4700	1165.4755	0.1308	0.0268
28	77.8175	0.5375	5951.3850	1238.2625	0.1366	0.0284
29	77.8300	0.5500	6207.3000	1314.2486	0.1425	0.0302
30	77.8425	0.5625	6463.2150	1393.4340	0.1484	0.0320
31	77.8550	0.5750	6719.1300	1475.8184	0.1542	0.0339
32	77.8675	0.5875	6975.0450	1561.4020	0.1601	0.0358
33	77.8800	0.6000	7230.9600	1650.1848	0.1660	0.0379
34	77.8925	0.6125	7508.6550	1742.3019	0.1724	0.0400
35	77.9050	0.6250	7786.3500	1837.8905	0.1788	0.0422
36	77.9175	0.6375	8064.0450	1936.9504	0.1851	0.0445
37	77.9300	0.6500	8341.7400	2039.4816	0.1915	0.0468
38	77.9425	0.6625	8619.4350	2145.4842	0.1979	0.0493
39	77.9550	0.6750	8897.1300	2254.9582	0.2042	0.0518
40	77.9675	0.6875	9174.8250	2367.9034	0.2106	0.0544

41	77.9800	0.7000	9452.5200	2484.3200	0.2170	0.0570
42	86.0900	8.8100	9452.5200	79144.2572	0.2170	1.8169

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| Variable storage data for node | CI-116
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	80.5200	0.0000	4.3560	0.0000	0.0001	0.0000
2	80.5450	0.0250	150.8265	1.5068	0.0035	0.0000
3	80.5700	0.0500	297.2970	7.0058	0.0068	0.0002
4	80.5950	0.0750	443.7675	16.2082	0.0102	0.0004
5	80.6200	0.1000	590.2380	29.0898	0.0135	0.0007
6	80.6450	0.1250	736.7085	45.6428	0.0169	0.0010
7	80.6700	0.1500	883.1790	65.8638	0.0203	0.0015
8	80.6950	0.1750	1029.6495	89.7507	0.0236	0.0021
9	80.7200	0.2000	1176.1200	117.3026	0.0270	0.0027
10	80.7450	0.2250	1475.5950	150.3783	0.0339	0.0035
11	80.7700	0.2500	1775.0700	190.9540	0.0408	0.0044
12	80.7950	0.2750	2074.5450	239.0256	0.0476	0.0055
13	80.8200	0.3000	2374.0200	294.5906	0.0545	0.0068
14	80.8450	0.3250	2673.4950	357.6475	0.0614	0.0082
15	80.8700	0.3500	2972.9700	428.1952	0.0683	0.0098
16	80.8950	0.3750	3272.4450	506.2330	0.0751	0.0116
17	80.9200	0.4000	3571.9200	591.7602	0.0820	0.0136
18	80.9325	0.4125	3773.3850	637.6626	0.0866	0.0146
19	80.9450	0.4250	3974.8500	686.0836	0.0912	0.0158
20	80.9575	0.4375	4176.3150	737.0232	0.0959	0.0169
21	80.9700	0.4500	4377.7800	790.4814	0.1005	0.0181
22	80.9825	0.4625	4579.2450	846.4581	0.1051	0.0194
23	80.9950	0.4750	4780.7100	904.9533	0.1098	0.0208
24	81.0075	0.4875	4982.1750	965.9670	0.1144	0.0222
25	81.0200	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	81.0325	0.5125	5439.5550	1095.8877	0.1249	0.0252
27	81.0450	0.5250	5695.4700	1165.4755	0.1308	0.0268
28	81.0575	0.5375	5951.3850	1238.2625	0.1366	0.0284
29	81.0700	0.5500	6207.3000	1314.2486	0.1425	0.0302
30	81.0825	0.5625	6463.2150	1393.4340	0.1484	0.0320
31	81.0950	0.5750	6719.1300	1475.8184	0.1542	0.0339
32	81.1075	0.5875	6975.0450	1561.4020	0.1601	0.0358
33	81.1200	0.6000	7230.9600	1650.1848	0.1660	0.0379
34	81.1325	0.6125	7508.6550	1742.3019	0.1724	0.0400
35	81.1450	0.6250	7786.3500	1837.8905	0.1788	0.0422
36	81.1575	0.6375	8064.0450	1936.9504	0.1851	0.0445
37	81.1700	0.6500	8341.7400	2039.4816	0.1915	0.0468
38	81.1825	0.6625	8619.4350	2145.4842	0.1979	0.0493
39	81.1950	0.6750	8897.1300	2254.9582	0.2042	0.0518
40	81.2075	0.6875	9174.8250	2367.9034	0.2106	0.0544
41	81.2200	0.7000	9452.5200	2484.3200	0.2170	0.0570
42	86.0900	5.5700	9452.5200	48518.0924	0.2170	1.1138

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| Variable storage data for node | CI-114
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	80.5200	0.0000	4.3560	0.0000	0.0001	0.0000
2	80.5450	0.0250	150.8265	1.5068	0.0035	0.0000
3	80.5700	0.0500	297.2970	7.0058	0.0068	0.0002
4	80.5950	0.0750	443.7675	16.2082	0.0102	0.0004
5	80.6200	0.1000	590.2380	29.0898	0.0135	0.0007
6	80.6450	0.1250	736.7085	45.6428	0.0169	0.0010
7	80.6700	0.1500	883.1790	65.8638	0.0203	0.0015
8	80.6950	0.1750	1029.6495	89.7507	0.0236	0.0021
9	80.7200	0.2000	1176.1200	117.3026	0.0270	0.0027
10	80.7450	0.2250	1475.5950	150.3783	0.0339	0.0035
11	80.7700	0.2500	1775.0700	190.9540	0.0408	0.0044
12	80.7950	0.2750	2074.5450	239.0256	0.0476	0.0055
13	80.8200	0.3000	2374.0200	294.5906	0.0545	0.0068
14	80.8450	0.3250	2673.4950	357.6475	0.0614	0.0082
15	80.8700	0.3500	2972.9700	428.1952	0.0683	0.0098
16	80.8950	0.3750	3272.4450	506.2330	0.0751	0.0116
17	80.9200	0.4000	3571.9200	591.7602	0.0820	0.0136
18	80.9325	0.4125	3773.3850	637.6626	0.0866	0.0146
19	80.9450	0.4250	3974.8500	686.0836	0.0912	0.0158
20	80.9575	0.4375	4176.3150	737.0232	0.0959	0.0169
21	80.9700	0.4500	4377.7800	790.4814	0.1005	0.0181
22	80.9825	0.4625	4579.2450	846.4581	0.1051	0.0194
23	80.9950	0.4750	4780.7100	904.9533	0.1098	0.0208
24	81.0075	0.4875	4982.1750	965.9670	0.1144	0.0222
25	81.0200	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	81.0325	0.5125	5439.5550	1095.8877	0.1249	0.0252
27	81.0450	0.5250	5695.4700	1165.4755	0.1308	0.0268
28	81.0575	0.5375	5951.3850	1238.2625	0.1366	0.0284
29	81.0700	0.5500	6207.3000	1314.2486	0.1425	0.0302
30	81.0825	0.5625	6463.2150	1393.4340	0.1484	0.0320
31	81.0950	0.5750	6719.1300	1475.8184	0.1542	0.0339
32	81.1075	0.5875	6975.0450	1561.4020	0.1601	0.0358
33	81.1200	0.6000	7230.9600	1650.1848	0.1660	0.0379
34	81.1325	0.6125	7508.6550	1742.3019	0.1724	0.0400
35	81.1450	0.6250	7786.3500	1837.8905	0.1788	0.0422
36	81.1575	0.6375	8064.0450	1936.9504	0.1851	0.0445
37	81.1700	0.6500	8341.7400	2039.4816	0.1915	0.0468
38	81.1825	0.6625	8619.4350	2145.4842	0.1979	0.0493
39	81.1950	0.6750	8897.1300	2254.9582	0.2042	0.0518
40	81.2075	0.6875	9174.8250	2367.9034	0.2106	0.0544
41	81.2200	0.7000	9452.5200	2484.3200	0.2170	0.0570
42	86.0900	5.5700	9452.5200	48518.0924	0.2170	1.1138

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| Variable storage data for node | CI-105
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	82.0700	0.0000	4.3560	0.0000	0.0001	0.0000
2	82.0950	0.0250	150.8265	1.5068	0.0035	0.0000
3	82.1200	0.0500	297.2970	7.0058	0.0068	0.0002
4	82.1450	0.0750	443.7675	16.2082	0.0102	0.0004
5	82.1700	0.1000	590.2380	29.0898	0.0135	0.0007
6	82.1950	0.1250	736.7085	45.6428	0.0169	0.0010
7	82.2200	0.1500	883.1790	65.8638	0.0203	0.0015
8	82.2450	0.1750	1029.6495	89.7507	0.0236	0.0021
9	82.2700	0.2000	1176.1200	117.3026	0.0270	0.0027
10	82.2950	0.2250	1475.5950	150.3783	0.0339	0.0035
11	82.3200	0.2500	1775.0700	190.9540	0.0408	0.0044
12	82.3450	0.2750	2074.5450	239.0256	0.0476	0.0055
13	82.3700	0.3000	2374.0200	294.5906	0.0545	0.0068
14	82.3950	0.3250	2673.4950	357.6475	0.0614	0.0082
15	82.4200	0.3500	2972.9700	428.1952	0.0683	0.0098
16	82.4450	0.3750	3272.4450	506.2330	0.0751	0.0116
17	82.4700	0.4000	3571.9200	591.7602	0.0820	0.0136
18	82.4825	0.4125	3773.3850	637.6626	0.0866	0.0146
19	82.4950	0.4250	3974.8500	686.0836	0.0912	0.0158
20	82.5075	0.4375	4176.3150	737.0232	0.0959	0.0169
21	82.5200	0.4500	4377.7800	790.4814	0.1005	0.0181

22	82.5325	0.4625	4579.2450	846.4581	0.1051	0.0194
23	82.5450	0.4750	4780.7100	904.9533	0.1098	0.0208
24	82.5575	0.4875	4982.1750	965.9670	0.1144	0.0222
25	82.5700	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	82.5825	0.5125	5439.5550	1095.8877	0.1249	0.0252
27	82.5950	0.5250	5695.4700	1165.4755	0.1308	0.0268
28	82.6075	0.5375	5951.3850	1238.2625	0.1366	0.0284
29	82.6200	0.5500	6207.3000	1314.2486	0.1425	0.0302
30	82.6325	0.5625	6463.2150	1393.4340	0.1484	0.0320
31	82.6450	0.5750	6719.1300	1475.8184	0.1542	0.0339
32	82.6575	0.5875	6975.0450	1561.4020	0.1601	0.0358
33	82.6700	0.6000	7230.9600	1650.1848	0.1660	0.0379
34	82.6825	0.6125	7508.6550	1742.3019	0.1724	0.0400
35	82.6950	0.6250	7786.3500	1837.8905	0.1788	0.0422
36	82.7075	0.6375	8064.0450	1936.9504	0.1851	0.0445
37	82.7200	0.6500	8341.7400	2039.4816	0.1915	0.0468
38	82.7325	0.6625	8619.4350	2145.4842	0.1979	0.0493
39	82.7450	0.6750	8897.1300	2254.9582	0.2042	0.0518
40	82.7575	0.6875	9174.8250	2367.9034	0.2106	0.0544
41	82.7700	0.7000	9452.5200	2484.3200	0.2170	0.0570
42	87.1200	5.0500	9452.5200	43602.7820	0.2170	1.0010

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| Variable storage data for node | CI-102
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	81.7000	0.0000	4.3560	0.0000	0.0001	0.0000
2	81.7250	0.0250	150.8265	1.5068	0.0035	0.0000
3	81.7500	0.0500	297.2970	7.0058	0.0068	0.0002
4	81.7750	0.0750	443.7675	16.2082	0.0102	0.0004
5	81.8000	0.1000	590.2380	29.0898	0.0135	0.0007
6	81.8250	0.1250	736.7085	45.6428	0.0169	0.0010
7	81.8500	0.1500	883.1790	65.8638	0.0203	0.0015
8	81.8750	0.1750	1029.6495	89.7507	0.0236	0.0021
9	81.9000	0.2000	1176.1200	117.3026	0.0270	0.0027
10	81.9250	0.2250	1475.5950	150.3783	0.0339	0.0035
11	81.9500	0.2500	1775.0700	190.9540	0.0408	0.0044
12	81.9750	0.2750	2074.5450	239.0256	0.0476	0.0055
13	82.0000	0.3000	2374.0200	294.5906	0.0545	0.0068
14	82.0250	0.3250	2673.4950	357.6475	0.0614	0.0082
15	82.0500	0.3500	2972.9700	428.1952	0.0683	0.0098
16	82.0750	0.3750	3272.4450	506.2330	0.0751	0.0116
17	82.1000	0.4000	3571.9200	591.7602	0.0820	0.0136
18	82.1125	0.4125	3773.3850	637.6626	0.0866	0.0146
19	82.1250	0.4250	3974.8500	686.0836	0.0912	0.0158
20	82.1375	0.4375	4176.3150	737.0232	0.0959	0.0169
21	82.1500	0.4500	4377.7800	790.4814	0.1005	0.0181
22	82.1625	0.4625	4579.2450	846.4581	0.1051	0.0194
23	82.1750	0.4750	4780.7100	904.9533	0.1098	0.0208
24	82.1875	0.4875	4982.1750	965.9670	0.1144	0.0222
25	82.2000	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	82.2125	0.5125	5439.5550	1095.8877	0.1249	0.0252
27	82.2250	0.5250	5695.4700	1165.4755	0.1308	0.0268
28	82.2375	0.5375	5951.3850	1238.2625	0.1366	0.0284
29	82.2500	0.5500	6207.3000	1314.2486	0.1425	0.0302
30	82.2625	0.5625	6463.2150	1393.4340	0.1484	0.0320
31	82.2750	0.5750	6719.1300	1475.8184	0.1542	0.0339
32	82.2875	0.5875	6975.0450	1561.4020	0.1601	0.0358
33	82.3000	0.6000	7230.9600	1650.1848	0.1660	0.0379
34	82.3125	0.6125	7508.6550	1742.3019	0.1724	0.0400
35	82.3250	0.6250	7786.3500	1837.8905	0.1788	0.0422
36	82.3375	0.6375	8064.0450	1936.9504	0.1851	0.0445
37	82.3500	0.6500	8341.7400	2039.4816	0.1915	0.0468
38	82.3625	0.6625	8619.4350	2145.4842	0.1979	0.0493
39	82.3750	0.6750	8897.1300	2254.9582	0.2042	0.0518
40	82.3875	0.6875	9174.8250	2367.9034	0.2106	0.0544
41	82.4000	0.7000	9452.5200	2484.3200	0.2170	0.0570
42	87.7500	6.0500	9452.5200	53055.3020	0.2170	1.2180

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| Variable storage data for node | CI-100
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	82.9100	0.0000	4.3560	0.0000	0.0001	0.0000
2	82.9350	0.0250	150.8265	1.5068	0.0035	0.0000
3	82.9600	0.0500	297.2970	7.0058	0.0068	0.0002
4	82.9850	0.0750	443.7675	16.2082	0.0102	0.0004
5	83.0100	0.1000	590.2380	29.0898	0.0135	0.0007
6	83.0350	0.1250	736.7085	45.6428	0.0169	0.0010
7	83.0600	0.1500	883.1790	65.8638	0.0203	0.0015
8	83.0850	0.1750	1029.6495	89.7507	0.0236	0.0021
9	83.1100	0.2000	1176.1200	117.3026	0.0270	0.0027
10	83.1350	0.2250	1475.5950	150.3783	0.0339	0.0035
11	83.1600	0.2500	1775.0700	190.9540	0.0408	0.0044
12	83.1850	0.2750	2074.5450	239.0256	0.0476	0.0055
13	83.2100	0.3000	2374.0200	294.5906	0.0545	0.0068
14	83.2350	0.3250	2673.4950	357.6475	0.0614	0.0082
15	83.2600	0.3500	2972.9700	428.1952	0.0683	0.0098
16	83.2850	0.3750	3272.4450	506.2330	0.0751	0.0116
17	83.3100	0.4000	3571.9200	591.7602	0.0820	0.0136
18	83.3225	0.4125	3773.3850	637.6626	0.0866	0.0146
19	83.3350	0.4250	3974.8500	686.0836	0.0912	0.0158
20	83.3475	0.4375	4176.3150	737.0232	0.0959	0.0169
21	83.3600	0.4500	4377.7800	790.4814	0.1005	0.0181
22	83.3725	0.4625	4579.2450	846.4581	0.1051	0.0194
23	83.3850	0.4750	4780.7100	904.9533	0.1098	0.0208
24	83.3975	0.4875	4982.1750	965.9670	0.1144	0.0222
25	83.4100	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	83.4225	0.5125	5439.5550	1095.8877	0.1249	0.0252
27	83.4350	0.5250	5695.4700	1165.4755	0.1308	0.0268
28	83.4475	0.5375	5951.3850	1238.2625	0.1366	0.0284
29	83.4600	0.5500	6207.3000	1314.2486	0.1425	0.0302
30	83.4725	0.5625	6463.2150	1393.4340	0.1484	0.0320
31	83.4850	0.5750	6719.1300	1475.8184	0.1542	0.0339
32	83.4975	0.5875	6975.0450	1561.4020	0.1601	0.0358
33	83.5100	0.6000	7230.9600	1650.1848	0.1660	0.0379
34	83.5225	0.6125	7508.6550	1742.3019	0.1724	0.0400
35	83.5350	0.6250	7786.3500	1837.8905	0.1788	0.0422
36	83.5475	0.6375	8064.0450	1936.9504	0.1851	0.0445
37	83.5600	0.6500	8341.7400	2039.4816	0.1915	0.0468
38	83.5725	0.6625	8619.4350	2145.4842	0.1979	0.0493
39	83.5850	0.6750	8897.1300	2254.9582	0.2042	0.0518
40	83.5975	0.6875	9174.8250	2367.9034	0.2106	0.0544
41	83.6100	0.7000	9452.5200	2484.3200	0.2170	0.0570
42	87.9600	5.0500	9452.5200	43602.7820	0.2170	1.0010

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| Variable storage data for node | CI-94
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	82.3800	0.0000	4.3560	0.0000	0.0001	0.0000
2	82.4050	0.0250	150.8265	1.5068	0.0035	0.0000

3	82.4300	0.0500	297.2970	7.0058	0.0068	0.0002
4	82.4550	0.0750	443.7675	16.2082	0.0102	0.0004
5	82.4800	0.1000	590.2380	29.0898	0.0135	0.0007
6	82.5050	0.1250	736.7085	45.6428	0.0169	0.0010
7	82.5300	0.1500	883.1790	65.8638	0.0203	0.0015
8	82.5550	0.1750	1029.6495	89.7507	0.0236	0.0021
9	82.5800	0.2000	1176.1200	117.3026	0.0270	0.0027
10	82.6050	0.2250	1475.5950	150.3783	0.0339	0.0035
11	82.6300	0.2500	1775.0700	190.9540	0.0408	0.0044
12	82.6550	0.2750	2074.5450	239.0256	0.0476	0.0055
13	82.6800	0.3000	2374.0200	294.5906	0.0545	0.0068
14	82.7050	0.3250	2673.4950	357.6475	0.0614	0.0082
15	82.7300	0.3500	2972.9700	428.1952	0.0683	0.0098
16	82.7550	0.3750	3272.4450	506.2330	0.0751	0.0116
17	82.7800	0.4000	3571.9200	591.7602	0.0820	0.0136
18	82.7925	0.4125	3773.3850	637.6626	0.0866	0.0146
19	82.8050	0.4250	3974.8500	686.0836	0.0912	0.0158
20	82.8175	0.4375	4176.3150	737.0232	0.0959	0.0169
21	82.8300	0.4500	4377.7800	790.4814	0.1005	0.0181
22	82.8425	0.4625	4579.2450	846.4581	0.1051	0.0194
23	82.8550	0.4750	4780.7100	904.9533	0.1098	0.0208
24	82.8675	0.4875	4982.1750	965.9670	0.1144	0.0222
25	82.8800	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	82.8925	0.5125	5439.5550	1095.8877	0.1249	0.0252
27	82.9050	0.5250	5695.4700	1165.4755	0.1308	0.0268
28	82.9175	0.5375	5951.3850	1238.2625	0.1366	0.0284
29	82.9300	0.5500	6207.3000	1314.2486	0.1425	0.0302
30	82.9425	0.5625	6463.2150	1393.4340	0.1484	0.0320
31	82.9550	0.5750	6719.1300	1475.8184	0.1542	0.0339
32	82.9675	0.5875	6975.0450	1561.4020	0.1601	0.0358
33	82.9800	0.6000	7230.9600	1650.1848	0.1660	0.0379
34	82.9925	0.6125	7508.6550	1742.3019	0.1724	0.0400
35	83.0050	0.6250	7786.3500	1837.8905	0.1788	0.0422
36	83.0175	0.6375	8064.0450	1936.9504	0.1851	0.0445
37	83.0300	0.6500	8341.7400	2039.4816	0.1915	0.0468
38	83.0425	0.6625	8619.4350	2145.4842	0.1979	0.0493
39	83.0550	0.6750	8897.1300	2254.9582	0.2042	0.0518
40	83.0675	0.6875	9174.8250	2367.9034	0.2106	0.0544
41	83.0800	0.7000	9452.5200	2484.3200	0.2170	0.0570
42	88.9700	6.5900	9452.5200	58159.6628	0.2170	1.3352

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| Variable storage data for node | CI-92
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	84.3000	0.0000	4.3560	0.0000	0.0001	0.0000
2	84.3250	0.0250	150.8265	1.5068	0.0035	0.0000
3	84.3500	0.0500	297.2970	7.0058	0.0068	0.0002
4	84.3750	0.0750	443.7675	16.2082	0.0102	0.0004
5	84.4000	0.1000	590.2380	29.0898	0.0135	0.0007
6	84.4250	0.1250	736.7085	45.6428	0.0169	0.0010
7	84.4500	0.1500	883.1790	65.8638	0.0203	0.0015
8	84.4750	0.1750	1029.6495	89.7507	0.0236	0.0021
9	84.5000	0.2000	1176.1200	117.3026	0.0270	0.0027
10	84.5250	0.2250	1475.5950	150.3783	0.0339	0.0035
11	84.5500	0.2500	1775.0700	190.9540	0.0408	0.0044
12	84.5750	0.2750	2074.5450	239.0256	0.0476	0.0055
13	84.6000	0.3000	2374.0200	294.5906	0.0545	0.0068
14	84.6250	0.3250	2673.4950	357.6475	0.0614	0.0082
15	84.6500	0.3500	2972.9700	428.1952	0.0683	0.0098
16	84.6750	0.3750	3272.4450	506.2330	0.0751	0.0116
17	84.7000	0.4000	3571.9200	591.7602	0.0820	0.0136
18	84.7125	0.4125	3773.3850	637.6626	0.0866	0.0146
19	84.7250	0.4250	3974.8500	686.0836	0.0912	0.0158
20	84.7375	0.4375	4176.3150	737.0232	0.0959	0.0169
21	84.7500	0.4500	4377.7800	790.4814	0.1005	0.0181
22	84.7625	0.4625	4579.2450	846.4581	0.1051	0.0194
23	84.7750	0.4750	4780.7100	904.9533	0.1098	0.0208
24	84.7875	0.4875	4982.1750	965.9670	0.1144	0.0222
25	84.8000	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	84.8125	0.5125	5439.5550	1095.8877	0.1249	0.0252
27	84.8250	0.5250	5695.4700	1165.4755	0.1308	0.0268
28	84.8375	0.5375	5951.3850	1238.2625	0.1366	0.0284
29	84.8500	0.5500	6207.3000	1314.2486	0.1425	0.0302
30	84.8625	0.5625	6463.2150	1393.4340	0.1484	0.0320
31	84.8750	0.5750	6719.1300	1475.8184	0.1542	0.0339
32	84.8875	0.5875	6975.0450	1561.4020	0.1601	0.0358
33	84.9000	0.6000	7230.9600	1650.1848	0.1660	0.0379
34	84.9125	0.6125	7508.6550	1742.3019	0.1724	0.0400
35	84.9250	0.6250	7786.3500	1837.8905	0.1788	0.0422
36	84.9375	0.6375	8064.0450	1936.9504	0.1851	0.0445
37	84.9500	0.6500	8341.7400	2039.4816	0.1915	0.0468
38	84.9625	0.6625	8619.4350	2145.4842	0.1979	0.0493
39	84.9750	0.6750	8897.1300	2254.9582	0.2042	0.0518
40	84.9875	0.6875	9174.8250	2367.9034	0.2106	0.0544
41	85.0000	0.7000	9452.5200	2484.3200	0.2170	0.0570
42	88.7100	4.4100	9452.5200	37553.1692	0.2170	0.8621

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| Variable storage data for node | CI-141
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	78.7900	0.0000	4.3560	0.0000	0.0001	0.0000
2	78.8150	0.0250	150.8265	1.5068	0.0035	0.0000
3	78.8400	0.0500	297.2970	7.0058	0.0068	0.0002
4	78.8650	0.0750	443.7675	16.2082	0.0102	0.0004
5	78.8900	0.1000	590.2380	29.0898	0.0135	0.0007
6	78.9150	0.1250	736.7085	45.6428	0.0169	0.0010
7	78.9400	0.1500	883.1790	65.8638	0.0203	0.0015
8	78.9650	0.1750	1029.6495	89.7507	0.0236	0.0021
9	78.9900	0.2000	1176.1200	117.3026	0.0270	0.0027
10	79.0150	0.2250	1475.5950	150.3783	0.0339	0.0035
11	79.0400	0.2500	1775.0700	190.9540	0.0408	0.0044
12	79.0650	0.2750	2074.5450	239.0256	0.0476	0.0055
13	79.0900	0.3000	2374.0200	294.5906	0.0545	0.0068
14	79.1150	0.3250	2673.4950	357.6475	0.0614	0.0082
15	79.1400	0.3500	2972.9700	428.1952	0.0683	0.0098
16	79.1650	0.3750	3272.4450	506.2330	0.0751	0.0116
17	79.1900	0.4000	3571.9200	591.7602	0.0820	0.0136
18	79.2025	0.4125	3773.3850	637.6626	0.0866	0.0146
19	79.2150	0.4250	3974.8500	686.0836	0.0912	0.0158
20	79.2275	0.4375	4176.3150	737.0232	0.0959	0.0169
21	79.2400	0.4500	4377.7800	790.4814	0.1005	0.0181
22	79.2525	0.4625	4579.2450	846.4581	0.1051	0.0194
23	79.2650	0.4750	4780.7100	904.9533	0.1098	0.0208
24	79.2775	0.4875	4982.1750	965.9670	0.1144	0.0222
25	79.2900	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	79.3025	0.5125	5439.5550	1095.8877	0.1249	0.0252
27	79.3150	0.5250	5695.4700	1165.4755	0.1308	0.0268
28	79.3275	0.5375	5951.3850	1238.2625	0.1366	0.0284
29	79.3400	0.5500	6207.3000	1314.2486	0.1425	0.0302
30	79.3525	0.5625	6463.2150	1393.4340	0.1484	0.0320
31	79.3650	0.5750	6719.1300	1475.8184	0.1542	0.0339
32	79.3775	0.5875	6975.0450	1561.4020	0.1601	0.0358

33	79.3900	0.6000	7230.9600	1650.1848	0.1660	0.0379
34	79.4025	0.6125	7508.6550	1742.3019	0.1724	0.0400
35	79.4150	0.6250	7786.3500	1837.8905	0.1788	0.0422
36	79.4275	0.6375	8064.0450	1936.9504	0.1851	0.0445
37	79.4400	0.6500	8341.7400	2039.4816	0.1915	0.0468
38	79.4525	0.6625	8619.4350	2145.4842	0.1979	0.0493
39	79.4650	0.6750	8897.1300	2254.9582	0.2042	0.0518
40	79.4775	0.6875	9174.8250	2367.9034	0.2106	0.0544
41	79.4900	0.7000	9452.5200	2484.3200	0.2170	0.0570
42	83.8400	5.0500	9452.5200	43602.7820	0.2170	1.0010

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| Variable storage data for node | CI-132
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	78.9000	0.0000	4.3560	0.0000	0.0001	0.0000
2	78.9250	0.0250	150.8265	1.5068	0.0035	0.0000
3	78.9500	0.0500	297.2970	7.0058	0.0068	0.0002
4	78.9750	0.0750	443.7675	16.2082	0.0102	0.0004
5	79.0000	0.1000	590.2380	29.0898	0.0135	0.0007
6	79.0250	0.1250	736.7085	45.6428	0.0169	0.0010
7	79.0500	0.1500	883.1790	65.8638	0.0203	0.0015
8	79.0750	0.1750	1029.6495	89.7507	0.0236	0.0021
9	79.1000	0.2000	1176.1200	117.3026	0.0270	0.0027
10	79.1250	0.2250	1475.5950	150.3783	0.0339	0.0035
11	79.1500	0.2500	1775.0700	190.9540	0.0408	0.0044
12	79.1750	0.2750	2074.5450	239.0256	0.0476	0.0055
13	79.2000	0.3000	2374.0200	294.5906	0.0545	0.0068
14	79.2250	0.3250	2673.4950	357.6475	0.0614	0.0082
15	79.2500	0.3500	2972.9700	428.1952	0.0683	0.0098
16	79.2750	0.3750	3272.4450	506.2330	0.0751	0.0116
17	79.3000	0.4000	3571.9200	591.7602	0.0820	0.0136
18	79.3125	0.4125	3773.3850	637.6626	0.0866	0.0146
19	79.3250	0.4250	3974.8500	686.0836	0.0912	0.0158
20	79.3375	0.4375	4176.3150	737.0232	0.0959	0.0169
21	79.3500	0.4500	4377.7800	790.4814	0.1005	0.0181
22	79.3625	0.4625	4579.2450	846.4581	0.1051	0.0194
23	79.3750	0.4750	4780.7100	904.9533	0.1098	0.0208
24	79.3875	0.4875	4982.1750	965.9670	0.1144	0.0222
25	79.4000	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	79.4125	0.5125	5439.5550	1095.8877	0.1249	0.0252
27	79.4250	0.5250	5695.4700	1165.4755	0.1308	0.0268
28	79.4375	0.5375	5951.3850	1238.2625	0.1366	0.0284
29	79.4500	0.5500	6207.3000	1314.2486	0.1425	0.0302
30	79.4625	0.5625	6463.2150	1393.4340	0.1484	0.0320
31	79.4750	0.5750	6719.1300	1475.8184	0.1542	0.0339
32	79.4875	0.5875	6975.0450	1561.4020	0.1601	0.0358
33	79.5000	0.6000	7230.9600	1650.1848	0.1660	0.0379
34	79.5125	0.6125	7508.6550	1742.3019	0.1724	0.0400
35	79.5250	0.6250	7786.3500	1837.8905	0.1788	0.0422
36	79.5375	0.6375	8064.0450	1936.9504	0.1851	0.0445
37	79.5500	0.6500	8341.7400	2039.4816	0.1915	0.0468
38	79.5625	0.6625	8619.4350	2145.4842	0.1979	0.0493
39	79.5750	0.6750	8897.1300	2254.9582	0.2042	0.0518
40	79.5875	0.6875	9174.8250	2367.9034	0.2106	0.0544
41	79.6000	0.7000	9452.5200	2484.3200	0.2170	0.0570
42	84.7000	5.8000	9452.5200	50692.1720	0.2170	1.1637

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| Variable storage data for node | DI-15
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	81.2700	0.0000	4.3560	0.0000	0.0001	0.0000
2	81.3325	0.0625	450.3015	10.3947	0.0103	0.0002
3	81.3950	0.1250	896.2470	51.6828	0.0206	0.0012
4	81.4575	0.1875	1342.1925	121.1667	0.0308	0.0028
5	81.5200	0.2500	1788.1380	218.6569	0.0411	0.0050
6	81.5825	0.3125	2234.0835	344.0930	0.0513	0.0079
7	81.6450	0.3750	2680.0290	497.4478	0.0615	0.0114
8	81.7075	0.4375	3125.9745	678.7068	0.0718	0.0156
9	81.7700	0.5000	3571.9200	887.8612	0.0820	0.0204
10	81.8325	0.5625	4520.5316	1140.1691	0.1038	0.0262
11	81.8950	0.6250	5469.1431	1451.8762	0.1256	0.0333
12	81.9575	0.6875	6417.7547	1822.9469	0.1473	0.0418
13	82.0200	0.7500	7366.3663	2253.3602	0.1691	0.0517
14	82.0825	0.8125	8314.9778	2743.1031	0.1909	0.0630
15	82.1450	0.8750	9263.5894	3292.1665	0.2127	0.0756
16	82.2075	0.9375	10212.2010	3900.5442	0.2344	0.0895
17	82.2700	1.0000	11160.8125	4568.2314	0.2562	0.1049
18	82.3325	1.0625	11322.9548	5270.8431	0.2599	0.1210
19	82.3950	1.1250	11485.0971	5983.5887	0.2637	0.1374
20	82.4575	1.1875	11647.2394	6706.4683	0.2674	0.1540
21	82.5200	1.2500	11809.3817	7439.4819	0.2711	0.1708
22	82.5825	1.3125	11971.5240	8182.6294	0.2748	0.1878
23	82.6450	1.3750	12133.6663	8935.9109	0.2786	0.2051
24	82.7075	1.4375	12295.8086	9699.3264	0.2823	0.2227
25	82.7700	1.5000	12457.9509	10472.8759	0.2860	0.2404
26	84.9900	3.7200	12457.9509	38129.5269	0.2860	0.8753

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| Variable storage data for node | CI-82
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	85.2600	0.0000	4.3560	0.0000	0.0001	0.0000
2	85.2850	0.0250	150.8265	1.5068	0.0035	0.0000
3	85.3100	0.0500	297.2970	7.0058	0.0068	0.0002
4	85.3350	0.0750	443.7675	16.2082	0.0102	0.0004
5	85.3600	0.1000	590.2380	29.0898	0.0135	0.0007
6	85.3850	0.1250	736.7085	45.6428	0.0169	0.0010
7	85.4100	0.1500	883.1790	65.8638	0.0203	0.0015
8	85.4350	0.1750	1029.6495	89.7507	0.0236	0.0021
9	85.4600	0.2000	1176.1200	117.3026	0.0270	0.0027
10	85.4850	0.2250	1475.5950	150.3783	0.0339	0.0035
11	85.5100	0.2500	1775.0700	190.9540	0.0408	0.0044
12	85.5350	0.2750	2074.5450	239.0256	0.0476	0.0055
13	85.5600	0.3000	2374.0200	294.5906	0.0545	0.0068
14	85.5850	0.3250	2673.4950	357.6475	0.0614	0.0082
15	85.6100	0.3500	2972.9700	428.1952	0.0683	0.0098
16	85.6350	0.3750	3272.4450	506.2330	0.0751	0.0116
17	85.6600	0.4000	3571.9200	591.7602	0.0820	0.0136
18	85.6725	0.4125	3773.3850	637.6626	0.0866	0.0146
19	85.6850	0.4250	3974.8500	686.0836	0.0912	0.0158
20	85.6975	0.4375	4176.3150	737.0232	0.0959	0.0169
21	85.7100	0.4500	4377.7800	790.4814	0.1005	0.0181
22	85.7225	0.4625	4579.2450	846.4581	0.1051	0.0194
23	85.7350	0.4750	4780.7100	904.9533	0.1098	0.0208
24	85.7475	0.4875	4982.1750	965.9670	0.1144	0.0222
25	85.7600	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	85.7725	0.5125	5439.5550	1095.8877	0.1249	0.0252
27	85.7850	0.5250	5695.4700	1165.4755	0.1308	0.0268
28	85.7975	0.5375	5951.3850	1238.2625	0.1366	0.0284
29	85.8100	0.5500	6207.3000	1314.2486	0.1425	0.0302

30	85.8225	0.5625	6463.2150	1393.4340	0.1484	0.0320
31	85.8350	0.5750	6719.1300	1475.8184	0.1542	0.0339
32	85.8475	0.5875	6975.0450	1561.4020	0.1601	0.0358
33	85.8600	0.6000	7230.9600	1650.1848	0.1660	0.0379
34	85.8725	0.6125	7508.6550	1742.3019	0.1724	0.0400
35	85.8850	0.6250	7786.3500	1837.8905	0.1788	0.0422
36	85.8975	0.6375	8064.0450	1936.9504	0.1851	0.0445
37	85.9100	0.6500	8341.7400	2039.4816	0.1915	0.0468
38	85.9225	0.6625	8619.4350	2145.4842	0.1979	0.0493
39	85.9350	0.6750	8897.1300	2254.9582	0.2042	0.0518
40	85.9475	0.6875	9174.8250	2367.9034	0.2106	0.0544
41	85.9600	0.7000	9452.5200	2484.3200	0.2170	0.0570
42	91.0000	5.7400	9452.5200	50125.0208	0.2170	1.1507

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| Variable storage data for node | CI-86
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	83.9200	0.0000	4.3560	0.0000	0.0001	0.0000
2	83.9450	0.0250	150.8265	1.5068	0.0035	0.0000
3	83.9700	0.0500	297.2970	7.0058	0.0068	0.0002
4	83.9950	0.0750	443.7675	16.2082	0.0102	0.0004
5	84.0200	0.1000	590.2380	29.0898	0.0135	0.0007
6	84.0450	0.1250	736.7085	45.6428	0.0169	0.0010
7	84.0700	0.1500	883.1790	65.8638	0.0203	0.0015
8	84.0950	0.1750	1029.6495	89.7507	0.0236	0.0021
9	84.1200	0.2000	1176.1200	117.3026	0.0270	0.0027
10	84.1450	0.2250	1475.5950	150.3783	0.0339	0.0035
11	84.1700	0.2500	1775.0700	190.9540	0.0408	0.0044
12	84.1950	0.2750	2074.5450	239.0256	0.0476	0.0055
13	84.2200	0.3000	2374.0200	294.5906	0.0545	0.0068
14	84.2450	0.3250	2673.4950	357.6475	0.0614	0.0082
15	84.2700	0.3500	2972.9700	428.1952	0.0683	0.0098
16	84.2950	0.3750	3272.4450	506.2330	0.0751	0.0116
17	84.3200	0.4000	3571.9200	591.7602	0.0820	0.0136
18	84.3325	0.4125	3773.3850	637.6626	0.0866	0.0146
19	84.3450	0.4250	3974.8500	686.0836	0.0912	0.0158
20	84.3575	0.4375	4176.3150	737.0232	0.0959	0.0169
21	84.3700	0.4500	4377.7800	790.4814	0.1005	0.0181
22	84.3825	0.4625	4579.2450	846.4581	0.1051	0.0194
23	84.3950	0.4750	4780.7100	904.9533	0.1098	0.0208
24	84.4075	0.4875	4982.1750	965.9670	0.1144	0.0222
25	84.4200	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	84.4325	0.5125	5439.5550	1095.8877	0.1249	0.0252
27	84.4450	0.5250	5695.4700	1165.4755	0.1308	0.0268
28	84.4575	0.5375	5951.3850	1238.2625	0.1366	0.0284
29	84.4700	0.5500	6207.3000	1314.2486	0.1425	0.0302
30	84.4825	0.5625	6463.2150	1393.4340	0.1484	0.0320
31	84.4950	0.5750	6719.1300	1475.8184	0.1542	0.0339
32	84.5075	0.5875	6975.0450	1561.4020	0.1601	0.0358
33	84.5200	0.6000	7230.9600	1650.1848	0.1660	0.0379
34	84.5325	0.6125	7508.6550	1742.3019	0.1724	0.0400
35	84.5450	0.6250	7786.3500	1837.8905	0.1788	0.0422
36	84.5575	0.6375	8064.0450	1936.9504	0.1851	0.0445
37	84.5700	0.6500	8341.7400	2039.4816	0.1915	0.0468
38	84.5825	0.6625	8619.4350	2145.4842	0.1979	0.0493
39	84.5950	0.6750	8897.1300	2254.9582	0.2042	0.0518
40	84.6075	0.6875	9174.8250	2367.9034	0.2106	0.0544
41	84.6200	0.7000	9452.5200	2484.3200	0.2170	0.0570
42	89.9600	6.0400	9452.5200	52960.7768	0.2170	1.2158

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| Variable storage data for node | CI-89
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	81.5300	0.0000	4.3560	0.0000	0.0001	0.0000
2	81.5550	0.0250	150.8265	1.5068	0.0035	0.0000
3	81.5800	0.0500	297.2970	7.0058	0.0068	0.0002
4	81.6050	0.0750	443.7675	16.2082	0.0102	0.0004
5	81.6300	0.1000	590.2380	29.0898	0.0135	0.0007
6	81.6550	0.1250	736.7085	45.6428	0.0169	0.0010
7	81.6800	0.1500	883.1790	65.8638	0.0203	0.0015
8	81.7050	0.1750	1029.6495	89.7507	0.0236	0.0021
9	81.7300	0.2000	1176.1200	117.3026	0.0270	0.0027
10	81.7550	0.2250	1475.5950	150.3783	0.0339	0.0035
11	81.7800	0.2500	1775.0700	190.9540	0.0408	0.0044
12	81.8050	0.2750	2074.5450	239.0256	0.0476	0.0055
13	81.8300	0.3000	2374.0200	294.5906	0.0545	0.0068
14	81.8550	0.3250	2673.4950	357.6475	0.0614	0.0082
15	81.8800	0.3500	2972.9700	428.1952	0.0683	0.0098
16	81.9050	0.3750	3272.4450	506.2330	0.0751	0.0116
17	81.9300	0.4000	3571.9200	591.7602	0.0820	0.0136
18	81.9425	0.4125	3773.3850	637.6626	0.0866	0.0146
19	81.9550	0.4250	3974.8500	686.0836	0.0912	0.0158
20	81.9675	0.4375	4176.3150	737.0232	0.0959	0.0169
21	81.9800	0.4500	4377.7800	790.4814	0.1005	0.0181
22	81.9925	0.4625	4579.2450	846.4581	0.1051	0.0194
23	82.0050	0.4750	4780.7100	904.9533	0.1098	0.0208
24	82.0175	0.4875	4982.1750	965.9670	0.1144	0.0222
25	82.0300	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	82.0425	0.5125	5439.5550	1095.8877	0.1249	0.0252
27	82.0550	0.5250	5695.4700	1165.4755	0.1308	0.0268
28	82.0675	0.5375	5951.3850	1238.2625	0.1366	0.0284
29	82.0800	0.5500	6207.3000	1314.2486	0.1425	0.0302
30	82.0925	0.5625	6463.2150	1393.4340	0.1484	0.0320
31	82.1050	0.5750	6719.1300	1475.8184	0.1542	0.0339
32	82.1175	0.5875	6975.0450	1561.4020	0.1601	0.0358
33	82.1300	0.6000	7230.9600	1650.1848	0.1660	0.0379
34	82.1425	0.6125	7508.6550	1742.3019	0.1724	0.0400
35	82.1550	0.6250	7786.3500	1837.8905	0.1788	0.0422
36	82.1675	0.6375	8064.0450	1936.9504	0.1851	0.0445
37	82.1800	0.6500	8341.7400	2039.4816	0.1915	0.0468
38	82.1925	0.6625	8619.4350	2145.4842	0.1979	0.0493
39	82.2050	0.6750	8897.1300	2254.9582	0.2042	0.0518
40	82.2175	0.6875	9174.8250	2367.9034	0.2106	0.0544
41	82.2300	0.7000	9452.5200	2484.3200	0.2170	0.0570
42	89.7400	8.2100	9452.5200	73472.7452	0.2170	1.6867

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| Variable storage data for node | CI-80
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	84.0100	0.0000	4.3560	0.0000	0.0001	0.0000
2	84.0350	0.0250	150.8265	1.5068	0.0035	0.0000
3	84.0600	0.0500	297.2970	7.0058	0.0068	0.0002
4	84.0850	0.0750	443.7675	16.2082	0.0102	0.0004
5	84.1100	0.1000	590.2380	29.0898	0.0135	0.0007
6	84.1350	0.1250	736.7085	45.6428	0.0169	0.0010
7	84.1600	0.1500	883.1790	65.8638	0.0203	0.0015
8	84.1850	0.1750	1029.6495	89.7507	0.0236	0.0021
9	84.2100	0.2000	1176.1200	117.3026	0.0270	0.0027
10	84.2350	0.2250	1475.5950	150.3783	0.0339	0.0035

11	84.2600	0.2500	1775.0700	190.9540	0.0408	0.0044
12	84.2850	0.2750	2074.5450	239.0256	0.0476	0.0055
13	84.3100	0.3000	2374.0200	294.5906	0.0545	0.0068
14	84.3350	0.3250	2673.4950	357.6475	0.0614	0.0082
15	84.3600	0.3500	2972.9700	428.1952	0.0683	0.0098
16	84.3850	0.3750	3272.4450	506.2330	0.0751	0.0116
17	84.4100	0.4000	3571.9200	591.7602	0.0820	0.0136
18	84.4225	0.4125	3773.3850	637.6626	0.0866	0.0146
19	84.4350	0.4250	3974.8500	686.0836	0.0912	0.0158
20	84.4475	0.4375	4176.3150	737.0232	0.0959	0.0169
21	84.4600	0.4500	4377.7800	790.4814	0.1005	0.0181
22	84.4725	0.4625	4579.2450	846.4581	0.1051	0.0194
23	84.4850	0.4750	4780.7100	904.9533	0.1098	0.0208
24	84.4975	0.4875	4982.1750	965.9670	0.1144	0.0222
25	84.5100	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	84.5225	0.5125	5439.5550	1095.8877	0.1249	0.0252
27	84.5350	0.5250	5695.4700	1165.4755	0.1308	0.0268
28	84.5475	0.5375	5951.3850	1238.2625	0.1366	0.0284
29	84.5600	0.5500	6207.3000	1314.2486	0.1425	0.0302
30	84.5725	0.5625	6463.2150	1393.4340	0.1484	0.0320
31	84.5850	0.5750	6719.1300	1475.8184	0.1542	0.0339
32	84.5975	0.5875	6975.0450	1561.4020	0.1601	0.0358
33	84.6100	0.6000	7230.9600	1650.1848	0.1660	0.0379
34	84.6225	0.6125	7508.6550	1742.3019	0.1724	0.0400
35	84.6350	0.6250	7786.3500	1837.8905	0.1788	0.0422
36	84.6475	0.6375	8064.0450	1936.9504	0.1851	0.0445
37	84.6600	0.6500	8341.7400	2039.4816	0.1915	0.0468
38	84.6725	0.6625	8619.4350	2145.4842	0.1979	0.0493
39	84.6850	0.6750	8897.1300	2254.9582	0.2042	0.0518
40	84.6975	0.6875	9174.8250	2367.9034	0.2106	0.0544
41	84.7100	0.7000	9452.5200	2484.3200	0.2170	0.0570
42	90.5900	6.5800	9452.5200	58065.1376	0.2170	1.3330

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| Variable storage data for node | CI-77B
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	84.8200	0.0000	4.3560	0.0000	0.0001	0.0000
2	84.8450	0.0250	150.8265	1.5068	0.0035	0.0000
3	84.8700	0.0500	297.2970	7.0058	0.0068	0.0002
4	84.8950	0.0750	443.7675	16.2082	0.0102	0.0004
5	84.9200	0.1000	590.2380	29.0898	0.0135	0.0007
6	84.9450	0.1250	736.7085	45.6428	0.0169	0.0010
7	84.9700	0.1500	883.1790	65.8638	0.0203	0.0015
8	84.9950	0.1750	1029.6495	89.7507	0.0236	0.0021
9	85.0200	0.2000	1176.1200	117.3026	0.0270	0.0027
10	85.0450	0.2250	1475.5950	150.3783	0.0339	0.0035
11	85.0700	0.2500	1775.0700	190.9540	0.0408	0.0044
12	85.0950	0.2750	2074.5450	239.0256	0.0476	0.0055
13	85.1200	0.3000	2374.0200	294.5906	0.0545	0.0068
14	85.1450	0.3250	2673.4950	357.6475	0.0614	0.0082
15	85.1700	0.3500	2972.9700	428.1952	0.0683	0.0098
16	85.1950	0.3750	3272.4450	506.2330	0.0751	0.0116
17	85.2200	0.4000	3571.9200	591.7602	0.0820	0.0136
18	85.2325	0.4125	3773.3850	637.6626	0.0866	0.0146
19	85.2450	0.4250	3974.8500	686.0836	0.0912	0.0158
20	85.2575	0.4375	4176.3150	737.0232	0.0959	0.0169
21	85.2700	0.4500	4377.7800	790.4814	0.1005	0.0181
22	85.2825	0.4625	4579.2450	846.4581	0.1051	0.0194
23	85.2950	0.4750	4780.7100	904.9533	0.1098	0.0208
24	85.3075	0.4875	4982.1750	965.9670	0.1144	0.0222
25	85.3200	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	85.3325	0.5125	5439.5550	1095.8877	0.1249	0.0252
27	85.3450	0.5250	5695.4700	1165.4755	0.1308	0.0268
28	85.3575	0.5375	5951.3850	1238.2625	0.1366	0.0284
29	85.3700	0.5500	6207.3000	1314.2486	0.1425	0.0302
30	85.3825	0.5625	6463.2150	1393.4340	0.1484	0.0320
31	85.3950	0.5750	6719.1300	1475.8184	0.1542	0.0339
32	85.4075	0.5875	6975.0450	1561.4020	0.1601	0.0358
33	85.4200	0.6000	7230.9600	1650.1848	0.1660	0.0379
34	85.4325	0.6125	7508.6550	1742.3019	0.1724	0.0400
35	85.4450	0.6250	7786.3500	1837.8905	0.1788	0.0422
36	85.4575	0.6375	8064.0450	1936.9504	0.1851	0.0445
37	85.4700	0.6500	8341.7400	2039.4816	0.1915	0.0468
38	85.4825	0.6625	8619.4350	2145.4842	0.1979	0.0493
39	85.4950	0.6750	8897.1300	2254.9582	0.2042	0.0518
40	85.5075	0.6875	9174.8250	2367.9034	0.2106	0.0544
41	85.5200	0.7000	9452.5200	2484.3200	0.2170	0.0570
42	89.8100	4.9900	9452.5200	43035.6308	0.2170	0.9880

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| Variable storage data for node | CI-73A
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	85.8100	0.0000	4.3560	0.0000	0.0001	0.0000
2	85.8350	0.0250	150.8265	1.5068	0.0035	0.0000
3	85.8600	0.0500	297.2970	7.0058	0.0068	0.0002
4	85.8850	0.0750	443.7675	16.2082	0.0102	0.0004
5	85.9100	0.1000	590.2380	29.0898	0.0135	0.0007
6	85.9350	0.1250	736.7085	45.6428	0.0169	0.0010
7	85.9600	0.1500	883.1790	65.8638	0.0203	0.0015
8	85.9850	0.1750	1029.6495	89.7507	0.0236	0.0021
9	86.0100	0.2000	1176.1200	117.3026	0.0270	0.0027
10	86.0350	0.2250	1475.5950	150.3783	0.0339	0.0035
11	86.0600	0.2500	1775.0700	190.9540	0.0408	0.0044
12	86.0850	0.2750	2074.5450	239.0256	0.0476	0.0055
13	86.1100	0.3000	2374.0200	294.5906	0.0545	0.0068
14	86.1350	0.3250	2673.4950	357.6475	0.0614	0.0082
15	86.1600	0.3500	2972.9700	428.1952	0.0683	0.0098
16	86.1850	0.3750	3272.4450	506.2330	0.0751	0.0116
17	86.2100	0.4000	3571.9200	591.7602	0.0820	0.0136
18	86.2225	0.4125	3773.3850	637.6626	0.0866	0.0146
19	86.2350	0.4250	3974.8500	686.0836	0.0912	0.0158
20	86.2475	0.4375	4176.3150	737.0232	0.0959	0.0169
21	86.2600	0.4500	4377.7800	790.4814	0.1005	0.0181
22	86.2725	0.4625	4579.2450	846.4581	0.1051	0.0194
23	86.2850	0.4750	4780.7100	904.9533	0.1098	0.0208
24	86.2975	0.4875	4982.1750	965.9670	0.1144	0.0222
25	86.3100	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	86.3225	0.5125	5439.5550	1095.8877	0.1249	0.0252
27	86.3350	0.5250	5695.4700	1165.4755	0.1308	0.0268
28	86.3475	0.5375	5951.3850	1238.2625	0.1366	0.0284
29	86.3600	0.5500	6207.3000	1314.2486	0.1425	0.0302
30	86.3725	0.5625	6463.2150	1393.4340	0.1484	0.0320
31	86.3850	0.5750	6719.1300	1475.8184	0.1542	0.0339
32	86.3975	0.5875	6975.0450	1561.4020	0.1601	0.0358
33	86.4100	0.6000	7230.9600	1650.1848	0.1660	0.0379
34	86.4225	0.6125	7508.6550	1742.3019	0.1724	0.0400
35	86.4350	0.6250	7786.3500	1837.8905	0.1788	0.0422
36	86.4475	0.6375	8064.0450	1936.9504	0.1851	0.0445
37	86.4600	0.6500	8341.7400	2039.4816	0.1915	0.0468
38	86.4725	0.6625	8619.4350	2145.4842	0.1979	0.0493
39	86.4850	0.6750	8897.1300	2254.9582	0.2042	0.0518
40	86.4975	0.6875	9174.8250	2367.9034	0.2106	0.0544

41	86.5100	0.7000	9452.5200	2484.3200	0.2170	0.0570
42	90.4200	4.6100	9452.5200	39443.6732	0.2170	0.9055

Variable storage data for node | CI-107B						
Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	82.0800	0.0000	4.3560	0.0000	0.0001	0.0000
2	82.1050	0.0250	150.8265	1.5068	0.0035	0.0000
3	82.1300	0.0500	297.2970	7.0058	0.0068	0.0002
4	82.1550	0.0750	443.7675	16.2082	0.0102	0.0004
5	82.1800	0.1000	590.2380	29.0898	0.0135	0.0007
6	82.2050	0.1250	736.7085	45.6428	0.0169	0.0010
7	82.2300	0.1500	883.1790	65.8638	0.0203	0.0015
8	82.2550	0.1750	1029.6495	89.7507	0.0236	0.0021
9	82.2800	0.2000	1176.1200	117.3026	0.0270	0.0027
10	82.3050	0.2250	1475.5950	150.3783	0.0339	0.0035
11	82.3300	0.2500	1775.0700	190.9540	0.0408	0.0044
12	82.3550	0.2750	2074.5450	239.0256	0.0476	0.0055
13	82.3800	0.3000	2374.0200	294.5906	0.0545	0.0068
14	82.4050	0.3250	2673.4950	357.6475	0.0614	0.0082
15	82.4300	0.3500	2972.9700	428.1952	0.0683	0.0098
16	82.4550	0.3750	3272.4450	506.2330	0.0751	0.0116
17	82.4800	0.4000	3571.9200	591.7602	0.0820	0.0136
18	82.4925	0.4125	3773.3850	637.6626	0.0866	0.0146
19	82.5050	0.4250	3974.8500	686.0836	0.0912	0.0158
20	82.5175	0.4375	4176.3150	737.0232	0.0959	0.0169
21	82.5300	0.4500	4377.7800	790.4814	0.1005	0.0181
22	82.5425	0.4625	4579.2450	846.4581	0.1051	0.0194
23	82.5550	0.4750	4780.7100	904.9533	0.1098	0.0208
24	82.5675	0.4875	4982.1750	965.9670	0.1144	0.0222
25	82.5800	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	82.5925	0.5125	5439.5550	1095.8877	0.1249	0.0252
27	82.6050	0.5250	5695.4700	1165.4755	0.1308	0.0268
28	82.6175	0.5375	5951.3850	1238.2625	0.1366	0.0284
29	82.6300	0.5500	6207.3000	1314.2486	0.1425	0.0302
30	82.6425	0.5625	6463.2150	1393.4340	0.1484	0.0320
31	82.6550	0.5750	6719.1300	1475.8184	0.1542	0.0339
32	82.6675	0.5875	6975.0450	1561.4020	0.1601	0.0358
33	82.6800	0.6000	7230.9600	1650.1848	0.1660	0.0379
34	82.6925	0.6125	7508.6550	1742.3019	0.1724	0.0400
35	82.7050	0.6250	7786.3500	1837.8905	0.1788	0.0422
36	82.7175	0.6375	8064.0450	1936.9504	0.1851	0.0445
37	82.7300	0.6500	8341.7400	2039.4816	0.1915	0.0468
38	82.7425	0.6625	8619.4350	2145.4842	0.1979	0.0493
39	82.7550	0.6750	8897.1300	2254.9582	0.2042	0.0518
40	82.7675	0.6875	9174.8250	2367.9034	0.2106	0.0544
41	82.7800	0.7000	9452.5200	2484.3200	0.2170	0.0570
42	87.1200	5.0400	9452.5200	43508.2568	0.2170	0.9988

Variable storage data for node | B-1						
Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	81.2100	0.0000	0.0000	0.0000	0.0000	0.0000
2	82.1837	0.9738	0.0000	0.0000	0.0000	0.0000
3	83.1575	1.9475	0.0000	0.0000	0.0000	0.0000
4	84.1312	2.9213	0.0000	0.0000	0.0000	0.0000
5	85.1050	3.8950	0.0000	0.0000	0.0000	0.0000
6	86.0787	4.8688	0.0000	0.0000	0.0000	0.0000
7	87.0525	5.8425	0.0000	0.0000	0.0000	0.0000
8	88.0262	6.8163	0.0000	0.0000	0.0000	0.0000
9	89.0000	7.7900	0.0000	0.0000	0.0000	0.0000
10	89.1250	7.9150	15899.4000	662.4750	0.3650	0.0152
11	89.2500	8.0400	31798.8000	3586.7811	0.7300	0.0823
12	89.3750	8.1650	47698.2000	8521.8818	1.0950	0.1956
13	89.5000	8.2900	63597.6000	15454.0876	1.4600	0.3548
14	89.6250	8.4150	79497.0000	24379.0408	1.8250	0.5597
15	89.7500	8.5400	95396.4000	35294.7908	2.1900	0.8103
16	89.8750	8.6650	111295.8000	48200.2945	2.5550	1.1065
17	90.0000	8.7900	127195.2000	63094.9285	2.9200	1.4485
18	90.1250	8.9150	128338.6500	79065.7408	2.9463	1.8151
19	90.2500	9.0400	129482.1000	95179.4849	2.9725	2.1850
20	90.3750	9.1650	130625.5500	111436.1606	2.9987	2.5582
21	90.5000	9.2900	131769.0000	127835.7681	3.0250	2.9347
22	90.6250	9.4150	132912.4500	144378.3073	3.0513	3.3145
23	90.7500	9.5400	134055.9000	161063.7781	3.0775	3.6975
24	90.8750	9.6650	135199.3500	177892.1807	3.1037	4.0838
25	91.0000	9.7900	136342.8000	194863.5149	3.1300	4.4735
26	91.3750	10.1650	136342.8000	245992.0649	3.1300	5.6472
27	91.7500	10.5400	136342.8000	297120.6149	3.1300	6.8210
28	92.1250	10.9150	136342.8000	348249.1649	3.1300	7.9947
29	92.5000	11.2900	136342.8000	399377.7149	3.1300	9.1685
30	92.8750	11.6650	136342.8000	450506.2649	3.1300	10.3422
31	93.2500	12.0400	136342.8000	501634.8149	3.1300	11.5160
32	93.6250	12.4150	136342.8000	552763.3649	3.1300	12.6897
33	94.0000	12.7900	136342.8000	603891.9149	3.1300	13.8635

Variable storage data for node | C-1						
Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	82.4400	0.0000	0.0000	0.0000	0.0000	0.0000
2	83.2600	0.8200	0.0000	0.0000	0.0000	0.0000
3	84.0800	1.6400	0.0000	0.0000	0.0000	0.0000
4	84.9000	2.4600	0.0000	0.0000	0.0000	0.0000
5	85.7200	3.2800	0.0000	0.0000	0.0000	0.0000
6	86.5400	4.1000	0.0000	0.0000	0.0000	0.0000
7	87.3600	4.9200	0.0000	0.0000	0.0000	0.0000
8	88.1800	5.7400	0.0000	0.0000	0.0000	0.0000
9	89.0000	6.5600	0.0000	0.0000	0.0000	0.0000
10	89.1250	6.6850	32561.1000	1356.7125	0.7475	0.0311
11	89.2500	6.8100	65122.2000	7345.5312	1.4950	0.1686
12	89.3750	6.9350	97683.3000	17452.3471	2.2425	0.4007
13	89.5000	7.0600	130244.4000	31649.1245	2.9900	0.7266
14	89.6250	7.1850	162805.5000	49926.9398	3.7375	1.1462
15	89.7500	7.3100	195366.6000	72281.7977	4.4850	1.6594
16	89.8750	7.4350	227927.7000	98711.5621	5.2325	2.2661
17	90.0000	7.5600	260488.8000	129214.9563	5.9800	2.9664
18	90.6250	8.1850	260488.8000	292020.4563	5.9800	6.7039
19	91.2500	8.8100	260488.8000	454825.9563	5.9800	10.4414
20	91.8750	9.4350	260488.8000	617631.4563	5.9800	14.1789
21	92.5000	10.0600	260488.8000	780436.9563	5.9800	17.9164
22	93.1250	10.6850	260488.8000	943242.4563	5.9800	21.6539
23	93.7500	11.3100	260488.8000	1.10604E+06	5.9800	25.3914
24	94.3750	11.9350	260488.8000	1.268853E+06	5.9800	29.1289
25	95.0000	12.5600	260488.8000	1.431659E+06	5.9800	32.8664
26	95.0000	12.5600	260488.8000	1.431659E+06	5.9800	32.8664

Variable storage data for node | E-1

Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	78.3200	0.0000	0.0000	0.0000	0.0000	0.0000
2	79.2800	0.9600	0.0000	0.0000	0.0000	0.0000
3	80.2400	1.9200	0.0000	0.0000	0.0000	0.0000
4	81.2000	2.8800	0.0000	0.0000	0.0000	0.0000
5	82.1600	3.8400	0.0000	0.0000	0.0000	0.0000
6	83.1200	4.8000	0.0000	0.0000	0.0000	0.0000
7	84.0800	5.7600	0.0000	0.0000	0.0000	0.0000
8	85.0400	6.7200	0.0000	0.0000	0.0000	0.0000
9	86.0000	7.6800	0.0000	0.0000	0.0000	0.0000
10	86.1250	7.8050	56301.3000	2345.8875	1.2925	0.0539
11	86.2500	7.9300	112602.6000	12701.1359	2.5850	0.2916
12	86.3750	8.0550	168903.9000	30176.8008	3.8775	0.6928
13	86.5000	8.1800	225205.2000	54724.4060	5.1700	1.2563
14	86.6250	8.3050	281506.5000	86328.5213	6.4625	1.9818
15	86.7500	8.4300	337807.8000	124982.2388	7.7550	2.8692
16	86.8750	8.5550	394109.1000	170681.8649	9.0475	3.9183
17	87.0000	8.6800	450410.4000	223425.1920	10.3400	5.1291
18	87.5000	9.1800	450410.4000	448630.3920	10.3400	10.2991
19	88.0000	9.6800	450410.4000	673835.5920	10.3400	15.4691
20	88.5000	10.1800	450410.4000	899040.7920	10.3400	20.6391
21	89.0000	10.6800	450410.4000	1.124246E+06	10.3400	25.8091
22	89.5000	11.1800	450410.4000	1.349451E+06	10.3400	30.9791
23	90.0000	11.6800	450410.4000	1.574656E+06	10.3400	36.1491
24	90.5000	12.1800	450410.4000	1.799862E+06	10.3400	41.3191
25	91.0000	12.6800	450410.4000	2.025067E+06	10.3400	46.4891
26	91.1000	12.7800	450410.4000	2.070108E+06	10.3400	47.5231

FREE OUTFALL DATA (DATA GROUP I1)
BOUNDARY CONDITION ON DATA GROUP J1

Outfall at Junction....SYS-D-OUT has boundary condition number... 1
Outfall at Junction....SYS-E-OUT has boundary condition number... 2
Outfall at Junction....SYS-C-OUT has boundary condition number... 3
Outfall at Junction....SYS-F-OUT has boundary condition number... 4
Outfall at Junction....SYS-B-OUT has boundary condition number... 5
Outfall at Junction....SYS-G-OUT has boundary condition number... 6

INTERNAL CONNECTIVITY INFORMATION

CONDUIT	JUNCTION	JUNCTION
FREE # 1	SYS-D-OUT	BOUNDARY
FREE # 2	SYS-E-OUT	BOUNDARY
FREE # 3	SYS-C-OUT	BOUNDARY
FREE # 4	SYS-F-OUT	BOUNDARY
FREE # 5	SYS-B-OUT	BOUNDARY
FREE # 6	SYS-G-OUT	BOUNDARY

Boundary Condition Information
Data Groups J1-J4

XP Note Field Summary

Table E9 - JUNCTION SUMMARY STATISTICS
The Maximum area is only the area of the node, it does not include the area of the surrounding conduits

Junction Name	Ground Elevation feet	Uppermost PipeCrown Elevation feet	Maximum Junction Elevation feet	Time of Occurence Hr.	Time of Occurence Min.	Feet of Surcharge at Max Elevation	Freeboard of node feet	Maximum Junction Area ft^2	Maximum Gutter Depth feet	Maximum Gutter Width feet	Maximum Gutter Velocity ft/s
CI-84	90.3400	86.9300	91.2037	24	3	4.2737	0.0000	11859.740	0.0000	0.0000	0.0000
MH-20	87.4300	83.7800	89.1369	26	26	5.3569	0.0000	12.5660	0.0000	0.0000	0.0000
CI-113	86.5600	82.9100	86.7267	25	56	3.8167	0.0000	5906.9984	0.0000	0.0000	0.0000
CI-120	84.4400	79.7900	86.7239	25	52	6.9339	0.0000	9452.5200	0.0000	0.0000	0.0000
MHI-79	83.7900	80.7100	85.4115	25	53	4.7015	0.0000	25302.446	0.0000	0.0000	0.0000
MH-28	83.8700	80.5200	85.4126	26	3	4.8926	0.0000	12.5660	0.0000	0.0000	0.0000
MHI-75	83.9900	82.8600	87.0517	18	19	4.1917	0.0000	106815.56	0.0000	0.0000	0.0000
MHI-74	84.8900	82.4900	86.7271	26	3	4.2371	0.0000	31392.142	0.0000	0.0000	0.0000
CI-135	84.7000	81.4000	85.4183	25	55	4.0183	0.0000	9452.5200	0.0000	0.0000	0.0000
CI-158	82.8400	79.2900	84.7962	18	10	5.5062	0.0000	9452.5200	0.0000	0.0000	0.0000
MHI-84	82.2100	79.4900	84.9202	18	32	5.4302	0.0000	75157.917	0.0000	0.0000	0.0000
MHI-85	82.0500	79.7400	84.8367	18	35	5.0967	0.0000	81133.615	0.0000	0.0000	0.0000
MH-40	83.6400	79.2000	84.8094	18	21	5.6094	0.0000	12.5660	0.0000	0.0000	0.0000
CI-161	83.5900	78.3200	84.8096	18	22	6.4896	0.0000	16929.400	0.0000	0.0000	0.0000
CI-159	83.3100	79.5500	84.8944	17	57	5.3444	0.0000	24380.964	0.0000	0.0000	0.0000
MH-34	82.3200	78.9100	84.8460	18	17	5.9360	0.0000	12.5660	0.0000	0.0000	0.0000
CI-156	82.2000	78.9800	84.8521	18	18	5.8721	0.0000	9452.5200	0.0000	0.0000	0.0000
CI-160	83.2200	79.8200	84.8462	18	35	5.0262	0.0000	25421.844	0.0000	0.0000	0.0000
CI-157	82.6700	79.2200	84.8694	18	31	5.6494	0.0000	45097.631	0.0000	0.0000	0.0000
MH-34A	82.7000	78.6400	84.8006	18	20	6.1606	0.0000	12.5660	0.0000	0.0000	0.0000
CI-155	82.1200	78.0700	85.0440	17	56	6.9740	0.0000	9452.5200	0.0000	0.0000	0.0000
MH-33	82.9500	79.7100	84.8071	18	12	5.0971	0.0000	12.5660	0.0000	0.0000	0.0000
CI-153	82.8400	79.7800	84.8081	18	12	5.0281	0.0000	9452.5200	0.0000	0.0000	0.0000
CI-154	82.5200	78.3900	85.2326	18	40	6.8426	0.0000	75340.482	0.0000	0.0000	0.0000
MHI-83	82.5900	80.0600	85.0639	18	44	5.0039	0.0000	59342.534	0.0000	0.0000	0.0000
MH-32	84.0400	80.1500	84.9137	18	29	4.7637	0.0000	12.5660	0.0000	0.0000	0.0000
CI-150	83.9900	80.2200	84.9141	18	30	4.6941	0.0000	12598.341	0.0000	0.0000	0.0000
MH-31	84.5700	79.7900	85.0216	18	33	5.2316	0.0000	12.5660	0.0000	0.0000	0.0000
CI-146	82.9500	80.6800	85.4142	26	6	4.7342	0.0000	9452.5200	0.0000	0.0000	0.0000
CI-145	85.0900	81.2400	85.4143	26	6	4.1743	0.0000	6915.1197	0.0000	0.0000	0.0000
MH-29	85.0000	81.0700	85.4139	26	6	4.3439	0.0000	12.5660	0.0000	0.0000	0.0000
MH-27	84.9800	80.9200	85.4124	26	4	4.4924	0.0000	12.5660	0.0000	0.0000	0.0000
CI-143	84.6200	81.1200	85.4124	26	6	4.2924	0.0000	9452.5200	0.0000	0.0000	0.0000
MH-26	85.0900	80.0000	85.4120	26	1	5.4120	0.0000	12.5660	0.0000	0.0000	0.0000
CI-142	85.0400	81.5200	85.4129	26	9	3.8929	0.0000	7259.5394	0.0000	0.0000	0.0000
MHI-80	84.0500	79.0800	88.6082	20	9	9.5282	0.0000	477065.98	0.0000	0.0000	0.0000
MH-25	85.5900	78.8900	85.4114	26	1	6.5214	0.1786	12.5660	0.0000	0.0000	0.0000
MHI-77	83.6200	81.2800	85.4179	25	54	4.1379	0.0000	30184.401	0.0000	0.0000	0.0000
MHI-78	83.6200	81.3300	85.4162	25	54	4.0862	0.0000	30133.303	0.0000	0.0000	0.0000
CI-131	84.9200	81.5400	85.4176	25	53	3.8776	0.0000	8224.2073	0.0000	0.0000	0.0000
CI-134	84.9200	81.5400	85.4188	25	54	3.8788	0.0000	8233.8440	0.0000	0.0000	0.0000
CI-133	85.5400	82.0200	85.6777	29	42	3.6577	0.0000	5793.2216	0.0000	0.0000	0.0000
CI-130	85.5400	82.0200	85.7012	29	40	3.6812	0.0000	5948.6252	0.0000	0.0000	0.0000
CI-129	85.8100	82.6400	86.7390	19	17	4.0990	0.0000	12660.183	0.0000	0.0000	0.0000
CI-128	85.6900	82.5400	86.7385	19	16	4.1985	0.0000	9452.5200	0.0000	0.0000	0.0000
MHI-76	84.1900	82.4900	86.7384	19	16	4.2484	0.0000	63932.944	0.0000	0.0000	0.0000
CI-127	85.5900	82.9500	87.1847	17	48	4.2347	0.0000	24635.206	0.0000	0.0000	0.0000
MH-24	85.1500	82.9900	87.3238	17	27	4.3338	0.0000	12.5660	0.0000	0.0000	0.0000

CI-126	84.7700	82.5400	87.3244	17	27	4.7844	0.0000	9452.5200	0.0000	0.0000	0.0000
CI-124	86.0600	83.0100	86.7288	26	3	3.7188	0.0000	9759.0781	0.0000	0.0000	0.0000
MHI-73	84.7900	82.9100	86.7285	26	1	3.8185	0.0000	34741.743	0.0000	0.0000	0.0000
CI-125	86.0600	82.5400	86.7277	26	4	4.1877	0.0000	9748.3338	0.0000	0.0000	0.0000
MH-22	85.6300	82.6800	88.9199	17	55	6.2399	0.0000	12.5660	0.0000	0.0000	0.0000
MH-23	83.7000	81.3000	86.7239	26	0	5.4239	0.0000	12.5660	0.0000	0.0000	0.0000
MHI-72	84.6800	80.8400	86.7221	25	49	5.8821	0.0000	38532.860	0.0000	0.0000	0.0000
MHI-71	84.7900	82.4300	86.7233	25	52	4.2933	0.0000	34562.389	0.0000	0.0000	0.0000
CI-122	86.0900	82.3500	86.7236	25	52	4.3736	0.0000	7977.7326	0.0000	0.0000	0.0000
CI-119	85.0900	79.6400	86.7227	25	48	7.0827	0.0000	25588.748	0.0000	0.0000	0.0000
CI-118	86.4400	79.6300	86.7238	26	1	7.0938	0.0000	6640.5774	0.0000	0.0000	0.0000
CI-115	86.3000	82.6200	86.7261	25	54	4.1061	0.0000	7656.5808	0.0000	0.0000	0.0000
CI-117	86.3000	82.6200	86.7276	25	59	4.1076	0.0000	7667.9315	0.0000	0.0000	0.0000
CI-116	86.0900	82.5200	86.7267	26	0	4.2067	0.0000	8046.3669	0.0000	0.0000	0.0000
MHI-67	85.2900	82.8500	86.7264	25	57	3.8764	0.0000	21026.861	0.0000	0.0000	0.0000
MHI-68	85.2900	83.0000	86.7257	25	56	3.7257	0.0000	21011.943	0.0000	0.0000	0.0000
CI-111	86.5600	83.0900	86.7259	25	57	3.6359	0.0000	5902.2848	0.0000	0.0000	0.0000
CI-114	86.0900	82.5200	86.7252	25	58	4.2052	0.0000	8012.8164	0.0000	0.0000	0.0000
MHI-70	84.7900	82.4600	86.7251	26	0	4.2651	0.0000	34623.933	0.0000	0.0000	0.0000
CI-109	87.8400	83.5900	86.7261	25	57	3.1361	1.1139	12.5660	0.0000	0.0000	0.0000
MHI-64	86.4000	83.3500	89.1392	26	45	5.7892	0.0000	77374.434	0.0000	0.0000	0.0000
CI-108	87.4700	83.4600	89.1395	26	45	5.6795	0.0000	26548.400	0.0000	0.0000	0.0000
MHI-63	86.0200	83.4900	89.1381	26	39	5.6481	0.0000	113020.37	0.0000	0.0000	0.0000
CI-107A	87.3400	83.4700	89.1393	26	44	5.6693	0.0000	30227.027	0.0000	0.0000	0.0000
MHI-61	86.2700	83.3600	89.1390	26	43	5.7790	0.0000	88098.595	0.0000	0.0000	0.0000
MHI-62	86.5700	82.3500	89.1370	26	26	6.7870	0.0000	65131.210	0.0000	0.0000	0.0000
MHI-65	86.0200	83.9200	89.1372	26	30	5.2172	0.0000	112917.91	0.0000	0.0000	0.0000
CI-105	87.1200	83.5700	89.1373	26	31	5.5673	0.0000	9452.5200	0.0000	0.0000	0.0000
CI-106	87.5900	84.1800	89.1385	26	37	4.9585	0.0000	23522.036	0.0000	0.0000	0.0000
MHI-66	86.9200	84.1200	89.1382	26	36	5.0182	0.0000	45955.957	0.0000	0.0000	0.0000
CI-104	87.3800	83.8300	89.1370	26	26	5.3070	0.0000	28976.283	0.0000	0.0000	0.0000
MH-18B	88.1500	84.3600	89.1375	26	18	4.7775	0.0000	12.5660	0.0000	0.0000	0.0000
CI-103	88.1000	84.4100	89.1376	26	18	4.7276	0.0000	14112.776	0.0000	0.0000	0.0000
CI-102	87.7500	84.2000	89.3861	17	57	5.1861	0.0000	9452.5200	0.0000	0.0000	0.0000
CI-101	88.1800	84.4600	89.3902	17	54	4.9302	0.0000	16770.832	0.0000	0.0000	0.0000
MHI-59	88.3000	85.1500	89.4850	18	26	4.3350	0.0000	16353.191	0.0000	0.0000	0.0000
CI-98	88.4900	84.9400	89.4844	18	26	4.5444	0.0000	13515.381	0.0000	0.0000	0.0000
CI-99	88.0700	84.4600	89.3154	18	26	4.8554	0.0000	17371.668	0.0000	0.0000	0.0000
CI-100	87.9600	84.4100	89.3151	18	24	4.9051	0.0000	9452.5200	0.0000	0.0000	0.0000
MH-16	88.5100	84.3200	89.3142	18	25	4.9942	0.0000	12.5660	0.0000	0.0000	0.0000
CI-95B	89.4900	86.0600	92.0207	17	18	5.9607	0.0000	62809.300	0.0000	0.0000	0.0000
MHI-57	88.0200	86.0000	90.9098	18	27	4.9098	0.0000	89952.040	0.0000	0.0000	0.0000
MHI-58	87.6900	85.5400	90.1383	18	27	4.5983	0.0000	57843.196	0.0000	0.0000	0.0000
MH-14	89.3800	85.7500	90.0221	18	26	4.2721	0.0000	12.5660	0.0000	0.0000	0.0000
CI-93	89.3000	86.5500	91.2046	24	8	4.6546	0.0000	33582.940	0.0000	0.0000	0.0000
CI-94	88.9700	86.3800	91.2045	24	8	4.8245	0.0000	9452.5200	0.0000	0.0000	0.0000
CI-95A	89.6300	86.4100	91.2043	24	21	4.7943	0.0000	24135.925	0.0000	0.0000	0.0000
MHI-55	88.5600	86.3300	91.2036	24	21	4.8736	0.0000	70320.778	0.0000	0.0000	0.0000
MHI-56	88.4600	86.0800	91.2035	24	9	5.1235	0.0000	77705.455	0.0000	0.0000	0.0000
CI-96A	89.6800	86.1600	91.2042	24	8	5.0442	0.0000	22957.512	0.0000	0.0000	0.0000
CI-92	88.7100	86.3000	91.2044	24	6	4.9044	0.0000	9452.5200	0.0000	0.0000	0.0000
MH-13	89.6900	86.2600	91.2041	24	6	4.9441	0.0000	22727.180	0.0000	0.0000	0.0000
CI-91	89.6400	86.4100	91.2058	24	9	4.7958	0.0000	23931.398	0.0000	0.0000	0.0000
MHI-54	88.9600	86.1700	91.2014	23	48	5.0314	0.0000	47033.737	0.0000	0.0000	0.0000
CI-88	90.0200	83.5600	91.2028	23	51	7.6428	0.0000	16318.198	0.0000	0.0000	0.0000
MHI-52	88.9600	86.8300	91.2035	24	0	4.3735	0.0000	47131.231	0.0000	0.0000	0.0000
CI-81	91.0800	86.5100	91.8383	24	13	5.3283	0.0000	10672.781	0.0000	0.0000	0.0000
MHI-50	89.0600	86.7600	91.8424	24	1	5.0824	0.0000	80787.450	0.0000	0.0000	0.0000
MHI-49	88.8100	85.7500	91.8357	24	10	6.0857	0.0000	103038.34	0.0000	0.0000	0.0000
MHI-48	88.3600	85.9500	91.8340	24	21	5.8840	0.0000	161323.87	0.0000	0.0000	0.0000
CI-79	90.8700	86.1100	91.8362	24	23	5.7262	0.0000	13139.876	0.0000	0.0000	0.0000
MHI-47	89.0600	86.4600	91.8356	23	51	5.3766	0.0000	80314.093	0.0000	0.0000	0.0000
MHI-46	88.7600	86.7900	91.8377	24	2	5.0477	0.0000	108543.87	0.0000	0.0000	0.0000
CI-76	90.8100	86.8600	91.8382	24	3	4.9782	0.0000	13979.946	0.0000	0.0000	0.0000
CI-75	90.5900	87.0900	91.8398	24	6	4.7498	0.0000	17448.950	0.0000	0.0000	0.0000
CI-78	90.2400	86.5600	91.8374	23	51	5.2774	0.0000	24700.388	0.0000	0.0000	0.0000
CI-77A	90.2300	87.0800	91.8393	23	58	4.7593	0.0000	24995.310	0.0000	0.0000	0.0000
CI-74	90.9700	87.8800	91.8438	23	47	3.9638	0.0000	11979.477	0.0000	0.0000	0.0000
MHI-45	89.8600	87.7800	91.8391	23	44	4.0591	0.0000	36179.388	0.0000	0.0000	0.0000
CI-73	90.9700	88.3100	91.8424	23	55	3.5324	0.0000	11963.181	0.0000	0.0000	0.0000
CI-70	91.8600	88.5000	92.0654	26	59	3.5654	0.0000	6379.2037	0.0000	0.0000	0.0000
MHI-44	90.7600	88.2300	91.8417	23	42	3.6117	0.0000	14747.866	0.0000	0.0000	0.0000
CI-72	91.7800	88.2900	91.8462	23	50	3.5562	0.0000	5342.2238	0.0000	0.0000	0.0000
CI-112B	87.0200	83.1100	86.8546	16	47	3.7446	0.1654	12.5660	0.0000	0.0000	0.0000
MHI-86	82.1200	79.2700	84.8136	18	23	5.5436	0.0000	73921.548	0.0000	0.0000	0.0000
CI-155A	82.7200	78.8500	84.7802	19	5	5.9302	0.0000	39236.561	0.0000	0.0000	0.0000
CI-155B	82.7200	78.6900	84.7810	18	49	6.0910	0.0000	39270.650	0.0000	0.0000	0.0000
MH-35	82.9400	79.2400	84.7836	18	10	5.5436	0.0000	12.5660	0.0000	0.0000	0.0000
MH-36	83.9400	78.4800	84.7781	18	9	6.2981	0.0000	12.5660	0.0000	0.0000	0.0000
CI-151	83.2100	80.1500	85.2519	18	2	5.1019	0.0000	38526.406	0.0000	0.0000	0.0000
CI-152	83.2900	79.6400	84.8126	18	13	5.1726	0.0000	22921.285	0.0000	0.0000	0.0000
CI-149	83.9000	80.3800	85.3556	17	56	5.0756	0.0000	21434.618	0.0000	0.0000	0.0000
CI-148	84.5900	80.8900	86.6161	17	38	5.7261	0.0000	37920.582	0.0000	0.0000	0.0000
MHI-82	82.4200	79.8400	85.0322	18	33	5.1922	0.0000	68144.890	0.0000	0.0000	0.0000
MHI-81	83.2800	80.1900	85.2298	18	11	5.0398	0.0000	35138.096	0.0000	0.0000	0.0000
CI-147	84.1200	80.9100	85.4163	26	8	4.5063	0.0000	18279.555	0.0000	0.0000	0.0000
MH-30	84.2200	80.7600	85.4130	26	3	4.6530	0.0000	12.5660	0.0000	0.0000	0.0000
CI-144	84.8300	81.1200	85.4140	26	6	4.2940	0.0000	8965.6325	0.0000	0.0000	0.0000
CI-141	83.8400	80.2900	85.4130	26	4	5.1230	0.0000	9452.5200	0.0000	0.0000	0.0000
CI-140	84.0400	80.4900	85.4132	26	6	4.9232	0.0000	19740.073	0.0000	0.0000	0.0000
CI-139	84.5400	80.2700	85.4127	26	4	5.1427	0.0000	11966.667	0.0000	0.0000	0.0000
CI-138	85.0400	80.0700	85.4124	26	2	5.3424	0.0000	7256.1024	0.0000	0.0000	0.0000
MHI-79X	87.3200	86.6300	85.4107	25	53	0.0000	1.9093	12.5660	0.0000	0.0000	0.0000
CI-132	84.7000	81.4000	85.4167	25	54	4.0167	0.0000	9452.5200	0.0000	0.0000	0.0000
CI-136	85.0500	81.7300	85.4190	25	56	3.6890	0.0000	7231.7810	0.0000	0.0000	0.0000
MHI-72X	87.0000	86.7300	86.7213	25	47	0.0000	0.2787	12.5660	0.0000	0.0000	0.0000
JCT-72	84.6800	80.5600	86.7216	25	48	6.1616	0.0000	12.5660	0.0000	0.0000	0.0000
MH-21	86.2900	82.7500	89.6599	17	48	6.9099	0.0000	12.5660	0.0000	0.0000	0.0000
DI-15	84.9900	82.7700	89.8868	17	47	7.1168	0.0000	12457.951	0.0000	0.0000	0.0000
MHI-69	84.7900	82.4600	86.7263	26	1	4.2663	0.0000	34664.517	0.0000	0.0000	0.0000
CI-110	87.0000	83.3400	86.7260	25	57	3.3860	0.3640	12.5660	0.0000	0.0000	0.0000
CI-112A	87.3700	83.3600	86.9413	16	45	3.5813	0.4287	12.5660	0.0000	0.0000	0.0000
MH-18A	88.7800	80.3200	89.1391	26	15	8.8191	0.0000	12.5660	0.0000	0.0000	0.0000
CI-100B	88.3800	83.5100	89.1840	18	32	5.6740	0.0000	11172.838	0.0000	0.0000	0.0000
CI-100A	88.2600	83.4300	89.1832	18	30	5.7532	0.0000	12.5660	0.0000	0.0000	0.0000
MH-18	87.6400	83.7700	89.1828	18	30	5.4128	0.0000	12.5660	0.0000	0.0000	0.0000
JCT-18A	87.6400	83.8200	89.2141	18	29	5.3941	0.0000	12.5660	0.0000	0.0000	0.0000
MH-19	88.4500	84.1100	89.3850	17	57	5.2750	0.0000	12.5660	0.0000	0.0000	0.0000
JCT-19	87.5500	84.0600	89.3814	18	0	5.3214	0.0000	12.5660	0.0000	0.0000	0.0000
MH-17	88.3200	81.2800	89.2588	18	29	7.9788	0.0000	12.5660	0.0000	0.0000	0.0000
CI-97	88.7400	85.2600	89.4852	18	26	4.2252	0.0000	10534.444	0.0000	0.0000	0.0000
MH-15	88.5400	85.0100	89.4837	18	26	4.4737	0.0000	12.5660	0.0000	0.0000	0.0000
MHI-60	88.0200	84.9500	89.4840	18	26	4.5340	0.0000	21616.786	0.0000	0.0000	0.0000
CI-96B	89.3300	85.7800	90.0227	18	26	4.2427	0.0000	9995.1018	0.0000	0.0000	0.0000
CI-82	91.0000	86.7600	91.8503	24	4	5.0903	0.0000	9452.5200	0.0000	0.0000	0.0000
CI-81A	91.2100	86.5800	91.8401	24	13	5.2601	0.0000	9389.2330	0.0000	0.0000	0.0000
CI-82A	90.5800	87.2100	91.8245	24	30	4.6145	0.0000	17356.059	0.0000	0.0000	0.0000
MHI-50A	89.3100	87.1600	91.8239	24	29	4.6639	0.0000	61764.217	0.0000	0.0000	0.0000
CI-83	90.9800	87.1300	91.2057	24	3	4.0757	0.0000	6266.1284	0.0000	0.0000	0.0000
MH-12	90.1600	84.7800	91.2016	23	59	6.4216	0.0000	14168.777	0.0000	0.0000	0.0000
MHI-53	89.0600	85.0300	91.7853	17	10	6.7553	0.0000	76305.032	0.0000	0.0000	0.0000
CI-85	90.3100	86.0900	91.9169	17	29	5.8269	0.0000	24936.191	0.0000	0.0000	0.0000
CI-86	89.9600	85.9200	92.0131	17	8	6.0931	0.0000	9452.5200	0.0000	0.0000	0.0000
CI-87	90.2000	85.7900	92.0474	17	3	6.2574	0.0000	31715.180	0.0000	0.0000	0.0000
CI-89	89.7400	83.5300	91.2018	23	48	7.6718	0.0000	9452.5200	0.0000	0.0000	0.0000
CI-90	89.9500	83.6300	91.2036	23	52	7.5736	0.0000	17514.600	0.0000	0.0000	0.0000
JCT-54	88.9600	84.4600	91.2012	23	48	6.7412	0.0000	12.5660	0.0000	0.0000	0.0000
MHI-54X	90.5000	90.3200	91.2011	23	47	0.8811	0.0000	10079.817	0.0000	0.0000	0.0000

CI-80	90.5900	86.0100	91.8345	24	22	5.8245	0.0000	9452.5200	0.0000	0.0000	0.0000
CI-77B	89.8100	86.8200	91.8388	23	52	5.0188	0.0000	9452.5200	0.0000	0.0000	0.0000
CI-78A	90.7200	85.8500	91.8357	23	51	5.9857	0.0000	15257.950	0.0000	0.0000	0.0000
JCT-78A	90.0600	85.9600	91.8357	23	52	5.8757	0.0000	12.5660	0.0000	0.0000	0.0000
CI-73A	90.4200	87.3100	91.8406	24	7	4.5306	0.0000	9452.5200	0.0000	0.0000	0.0000
CI-69	91.5700	88.7400	91.9741	17	10	3.2341	0.0000	7489.5174	0.0000	0.0000	0.0000
MHI-43	90.5000	88.4500	91.9363	17	7	3.4863	0.0000	21026.055	0.0000	0.0000	0.0000
CI-71	92.4500	88.5400	92.2471	18	6	3.7071	0.2029	12.5660	0.0000	0.0000	0.0000
MHI-42	91.9100	89.0000	91.9466	16	51	2.9466	0.0000	5186.2411	0.0000	0.0000	0.0000
MHI-41	92.0600	89.4600	92.0241	16	34	2.5641	0.0359	12.5660	0.0000	0.0000	0.0000
CI-68	92.9800	89.1100	91.9653	16	50	2.8553	1.0147	12.5660	0.0000	0.0000	0.0000
CI-67	93.0900	89.5200	92.0269	16	34	2.5069	1.0631	12.5660	0.0000	0.0000	0.0000
CI-107B	87.1200	83.5800	89.1382	26	38	5.5582	0.0000	9452.5200	0.0000	0.0000	0.0000
CI-102A	87.6600	83.2900	89.4243	17	55	6.1343	0.0000	29187.298	0.0000	0.0000	0.0000
CI-137	85.0500	77.4700	85.4114	25	50	7.9414	0.0000	7176.7284	0.0000	0.0000	0.0000
G-4	82.0200	75.5700	84.7395	17	57	9.1695	0.0000	75861.951	0.0000	0.0000	0.0000
JCT102A	88.0400	84.1100	89.4193	17	59	5.3093	0.0000	12.5660	0.0000	0.0000	0.0000
JCT137	83.7900	77.2300	85.4111	25	53	8.1811	0.0000	12.5660	0.0000	0.0000	0.0000
SYS-D-OUT	87.0000	82.9600	89.1400	25	29	6.1800	0.0000	42497.188	0.0000	0.0000	0.0000
MHI-51	89.4600	87.0800	91.2056	24	2	4.1256	0.0000	28645.711	0.0000	0.0000	0.0000
CI-121	86.3100	82.4500	86.7259	25	51	4.2759	0.0000	7578.2990	0.0000	0.0000	0.0000
B-3	92.1500	92.1200	91.8337	23	46	0.0000	0.3163	12.5660	0.0000	0.0000	0.0000
SYS-E-OUT	86.5000	86.4100	86.7200	25	44	0.3100	0.0000	6230.3837	0.0000	0.0000	0.0000
SYS-C-OUT	90.5000	90.1900	91.2000	23	44	1.0100	0.0000	10068.764	0.0000	0.0000	0.0000
SYS-F-OUT	86.5000	86.2000	85.4100	25	44	0.0000	1.0900	12.5660	0.0000	0.0000	0.0000
SYS-B-OUT	91.0000	90.5000	91.6400	23	44	1.1400	0.0000	9482.4044	0.0000	0.0000	0.0000
B-4	92.0000	91.6600	91.9079	23	43	0.2479	0.0921	12.5660	0.0000	0.0000	0.0000
B-5	93.2600	93.2500	91.9150	23	42	0.0000	1.3450	12.5660	0.0000	0.0000	0.0000
MH-D2	88.0400	84.2600	89.5377	17	46	5.2777	0.0000	22356.398	0.0000	0.0000	0.0000
B-6	93.7300	93.7200	92.6446	19	15	0.0000	1.0854	12.5660	0.0000	0.0000	0.0000
B-1	93.0000	92.9900	91.7833	23	45	0.0000	1.2167	12.5660	0.0000	0.0000	0.0000
B-2	93.9700	93.9600	91.8153	23	46	0.0000	2.1547	12.5660	0.0000	0.0000	0.0000
C-2	90.5000	90.3200	91.2011	23	47	0.8811	0.0000	10079.753	0.0000	0.0000	0.0000
C-1	95.0000	94.8800	91.2011	23	47	0.0000	3.7989	260488.80	0.0000	0.0000	0.0000
D-1	88.0000	83.6600	89.1417	25	33	5.4817	0.0000	15659.899	0.0000	0.0000	0.0000
E-1	91.1000	91.0900	86.7213	25	47	0.0000	4.3787	324874.03	0.0000	0.0000	0.0000
E-2	87.0000	86.7300	86.7213	25	47	0.0000	0.2787	12.5660	0.0000	0.0000	0.0000
F-1	86.6500	86.6300	85.4107	25	53	0.0000	1.2393	12.5660	0.0000	0.0000	0.0000
G-2	82.8200	75.0100	84.3392	18	32	9.3292	0.0000	22843.729	0.0000	0.0000	0.0000
G-1	81.6200	74.7100	84.2043	18	46	9.4943	0.0000	66267.103	0.0000	0.0000	0.0000
SYS-G-OUT	81.6200	74.6100	84.1500	18	44	9.5400	0.0000	62767.531	0.0000	0.0000	0.0000
G-3	82.9200	75.2700	84.7179	17	50	9.4479	0.0000	30185.209	0.0000	0.0000	0.0000
F-OFFSITE	84.0500	79.2200	89.7828	18	39	10.5628	0.0000	1544151.1	0.0000	0.0000	0.0000
MHI-50S	91.5000	83.7600	92.1445	17	13	8.3845	0.0000	9524.9927	0.0000	0.0000	0.0000
MH-B2	91.3800	83.7600	92.7011	17	4	8.9411	0.0000	18738.532	0.0000	0.0000	0.0000
MH-B1	92.2900	83.9200	93.1964	16	53	9.2764	0.0000	12376.441	0.0000	0.0000	0.0000

Table E10 - CONDUIT SUMMARY STATISTICS

Note: The peak flow may be less than the design flow and the conduit may still surcharge because of the downstream boundary conditions.

* denotes an open conduit that has been overtopped this is a potential source of severe errors

Conduit Name	Design Flow (cfs)	Conduit Design Velocity (ft/s)	Maximum Vertical Depth (in)	Maximum Computed Flow (cfs)	Time of Occurence Hr.	Time of Occurence Min.	Maximum Computed Velocity (ft/s)	Time of Occurence Hr.	Time of Occurence Min.	Ratio of Max. to Design Flow	Maximum Water Elev at Pipe Ends Upstream (ft)	Maximum Water Elev at Pipe Ends Dwnstrm (ft)	Ratio d/D US	Ratio d/D DS
L_CI-67	14.6552	2.9855	30.0000	3.5362	16	15	0.7160	16	15	0.2413	92.0269	92.0241	2.003	2.026
L_MHI-41	19.4773	3.9679	30.0000	12.6733	16	15	2.5652	16	15	0.6507	92.0241	91.9466	2.026	2.179
L_CI-68	4.8313	2.7340	18.0000	3.4163	16	15	2.4747	15	26	0.7071	91.9653	91.9466	2.904	2.964
L_MHI-42	30.6347	4.3339	36.0000	25.0886	16	15	3.5284	16	15	0.8190	91.9466	91.8417	1.982	2.204
L_CI-71	3.5330	1.9993	18.0000	2.0914	16	15	1.1695	16	15	0.5920	92.2477	91.8462	3.472	3.371
L_CI-72	31.4058	9.9968	24.0000	4.2000	16	15	1.3227	16	15	0.1337	91.8462	91.8417	2.778	3.306
L_CI-69	3.3218	1.8797	18.0000	6.8780	30	3	3.8513	30	3	2.0706	91.9741	92.0654	3.156	3.377
L_CI-70	7.2265	2.3003	24.0000	22.4025	26	59	7.0575	26	59	3.1001	92.0654	91.9363	2.783	2.743
L_MHI-43	14.2217	2.8972	30.0000	13.4628	15	54	2.7283	15	54	0.9466	91.9363	91.8417	2.395	2.445
L_MHI-44	55.5403	4.4198	48.0000	46.1590	15	54	3.6606	15	54	0.8311	91.8417	91.8391	1.903	2.015
L_CI-73	5.0207	2.8411	18.0000	7.4988	30	52	4.2012	30	52	1.4936	91.8424	91.8391	3.355	3.706
L_CI-74	4.6977	2.6583	18.0000	8.9096	29	49	4.9784	29	49	1.8966	91.8438	91.8391	3.643	3.706
L_MHI-45	73.2440	5.8286	48.0000	56.0342	16	0	4.4392	16	0	0.7650	91.8391	91.8366	2.015	2.372
L_CI-77A	4.3733	2.4748	18.0000	7.0917	31	22	3.9636	31	22	1.6216	91.8393	91.8388	4.173	4.346
L_CI-77B	9.4819	3.0182	24.0000	7.7541	30	58	2.4439	30	58	0.8178	91.8388	91.8374	3.509	3.639
L_CI-78	11.9231	3.7952	24.0000	-10.6116	16	34	-3.3293	16	34	-0.8900	91.8374	91.8366	3.639	3.688
L_CI-73A	4.8784	2.7606	18.0000	2.6772	16	15	1.4949	16	15	0.5488	91.8406	91.8398	4.020	4.167
L_CI-76	9.0232	2.8722	24.0000	5.1208	16	15	1.6125	16	15	0.5675	91.8382	91.8377	3.489	3.524
L_MHI-46	14.8430	3.0238	30.0000	-12.0712	16	37	-2.4268	16	37	-0.8133	91.8377	91.8366	3.319	3.451
L_MHI-47	100.0077	6.3258	54.0000	66.4533	15	51	4.1818	15	51	0.6605	91.8366	91.8357	2.219	2.306
L_CI-79	3.3218	1.8797	18.0000	8.2029	30	48	4.5546	30	48	2.4694	91.8362	91.8345	4.817	4.883
L_CI-80	7.8366	2.4945	24.0000	8.2599	30	48	2.5945	30	48	1.0540	91.8345	91.8340	3.912	3.942
L_CI-81	19.5137	11.0425	18.0000	8.2584	29	35	4.5704	29	35	0.4232	91.8383	91.8357	4.552	5.724
L_MHI-48	12.9708	2.6424	30.0000	-14.1275	16	53	-2.8399	16	53	-1.0892	91.8340	91.8357	3.354	3.434
L_MHI-49	23.3180	3.2988	36.0000	-24.8883	16	35	-3.4810	16	35	-1.0673	91.8357	91.8424	3.029	3.104
L_CI-82	3.2890	1.8612	18.0000	3.4653	16	15	1.9317	16	15	1.0536	91.8503	91.8424	4.394	4.422
L_MHI-50	72.2530	5.7497	48.0000	61.9583	15	50	4.8849	15	50	0.8575	91.8424	91.8337	3.143	3.298
L_CI-83	8.3844	2.6688	24.0000	11.1698	16	0	3.5297	16	0	1.3322	91.2056	91.2035	3.063	3.187
L_CI-84	4.6977	2.6583	18.0000	11.7357	30	1	6.5514	30	1	2.4982	91.2037	91.2035	3.849	3.916
L_MHI-52	20.1308	4.1010	30.0000	24.0852	15	56	4.8817	15	56	1.1964	91.2035	91.2014	2.749	3.013
L_CI-85	3.5363	2.0011	18.0000	7.5936	30	34	4.2264	30	34	2.1473	91.9169	92.0131	4.885	5.062
L_CI-86	7.8126	2.4868	24.0000	10.3728	29	16	3.2620	29	16	1.3277	92.0131	92.0474	4.047	4.129
L_CI-87	91.8547	5.7755	54.0000	160.7553	16	30	10.0191	16	30	1.7501	92.0474	91.7853	2.533	2.501
L_MHI-53	93.3518	5.8696	54.0000	149.0286	16	6	9.3108	16	6	1.5964	91.7853	91.2014	2.501	2.478
L_CI-91	3.4839	1.9715	18.0000	10.6088	31	21	5.9348	31	21	3.0451	91.2058	91.2044	4.197	4.270
L_CI-92	7.9982	2.5459	24.0000	21.3067	30	54	6.7202	30	54	2.6639	91.2044	91.2041	3.452	3.472
L_CI-93	41.4825	4.3116	42.0000	37.3029	31	17	3.8575	31	17	0.8992	91.2046	91.2045	2.330	2.378
L_CI-94	55.8908	4.4476	48.0000	24.6379	31	17	1.9518	31	17	0.4408	91.2045	91.2041	2.206	2.301
L_MH-13	57.4573	4.5723	48.0000	28.3497	30	54	2.2420	30	54	0.4932	91.2041	91.2035	2.301	2.381
L_CI-96A	4.6400	2.6257	18.0000	10.4296	31	5	5.8193	31	5	2.2477	91.2042	91.2035	4.363	4.416
L_CI-95A	4.8197	2.7274	18.0000	8.9188	31	5	4.9802	31	5	1.8505	91.2043	91.2036	4.196	4.249
L_MHI-55	12.1960	3.8821	24.0000	10.3414	31	24	3.2670	31	24	0.8479	91.2036	91.2035	3.437	3.732
L_MHI-56	78.5459	6.2505	48.0000	53.1966	30	55	4.2070	30	55	0.6773	91.2035	91.2016	2.381	2.605
L_MHI-54	208.3266	6.2781	78.0000	213.1015	16	0	6.3987	16	0	1.0229	91.2014	91.2013	2.023	2.037
L_CI-95B	3.6388	2.0591	18.0000	18.2928	16	30	10.1394	16	28	5.0271	92.0207	90.9098	4.974	4.273
L_MHI-57	11.3112	3.6005	24.0000	15.9194	15	32	5.0381	15	32	1.4074	90.9098	90.1383	3.455	3.299
L_MHI-58	6.9814	2.2223	24.0000	22.0691	15	40	6.9789	15	40	3.1611	90.1383	90.0221	3.299	3.251
L_CI-96B	3.3785	1.9119	18.0000	3.3350	16	15	1.8614	16	15	0.9871	90.0227	90.0221	3.828	3.848
L_MH-14	16.8837	3.4395	30.0000	23.8106	15	40	4.8291	15	40	1.4103	90.0221	89.4837	2.801	2.789
L_CI-98	4.7780	2.7038	18.0000	3.5654	16	15	1.9879	16	15	0.7462	89.4844	89.4837	4.030	4.069
L_CI-97	4.9270	2.7881	18.0000	9.0649	30	51	5.0563	30	51	1.8398	89.4852	89.4850	3.817	3.890
L_MHI-59	13.5970	2.7700	30.0000	9.6329	16	9	1.9465	16	9	0.7085	89.4850	89.4840	2.734	2.814
L_MHI-60	15.5030	3.1582	30.0000	15.2286	16	3	3.0783	16	3	0.9823	89.4840	89.4837	2.814	2.825
L_MH-15	14.9893	2.1206	36.0000	37.0561	16	3	5.1972	16	2	2.4722	89.4837	89.3142	2.958	2.935
L_CI-99	3.3218	1.8797	18.0000	-3.1883	16	31	-1.7728	16	31	-0.9598	89.3154	89.3151	4.237	4.270
L_CI-100	5.8518	3.3115	18.0000	6.8535	16	11	3.8210	16	11	1.1712	89.3151	89.3142	4.270	4.329
L_MH-16	49.5810	5.1533	42.0000	43.4518	16	4	4.4690	16	4	0.8764	89.3142	89.2588	3.198	3.280
L_MH-17	48.0479	4.9040	42.0000	43.4332	16	4	4.4527	16	4	0.9040	89.2588	89.2141	3.774	3.835
L_CI-101	4.6099	2.6087	18.0000	9.9173	32	13	5.5337	32	13	2.1513	89.3902	89.3861	4.287	4.457
L_CI-102	19.2174	3.9149	30.0000	10.2626	31	46	2.0716	31	46	0.5340	89.3861	89.3850	3.074	3.110
L_MH-19	21.0897	4.2964	30.0000	10.4859	31	46	2.1160	31	46	0.4972	89.3850	89.3813	3.110	3.293
L_CI-106	3.6388	2.0591	18.0000	9.2533	33	16	5.1636	33	16	2.5429	89.1385	89.1382	4.306	4.345
L_MHI-66	7.1538	2.2771	24.0000	12.1394	33	16	3.8282	33	16	1.6969	89.1382	89.1372	3.509	3.609
L_CI-105	4.9270	2.7881	18.0000	4.5195	33	0	2.5139	33	0	0.9173	89.1373	89.1372	4.712	4.785
L_CI-108	4.4607	2.5242	18.0000	11.8682	33	41	6.6116	33	41	2.6606	89.1395	89.1392	4.786	4.859
L_MHI-64	9.3257	2.9685	24.0000	33.7594	33	42	10.6850	33	42	3.6201	89.1392	89.1381	3.895	4.024

L_CI-107B	4.4566	2.5219	18.0000	5.1698	33	19	2.8758	33	19	1.1600	89.1382	89.1381	4.705	4.765
L_CI-107A	4.9270	2.7881	18.0000	11.4998	33	41	7.2292	33	41	2.3340	89.1393	89.1390	4.780	4.853
L_MHI-61	11.7549	3.7417	24.0000	31.3013	33	34	9.8619	33	34	2.6628	89.1390	89.1381	3.890	4.024
L_MHI-63	27.5271	3.8943	36.0000	67.0384	33	23	9.4134	33	23	2.4354	89.1381	89.1372	3.016	3.119
L_MHI-65	44.5508	4.6305	42.0000	73.9605	33	12	7.6273	33	12	1.6601	89.1372	89.1369	2.891	2.948
L_MHI-62	8.5505	2.7217	24.0000	11.3961	32	56	3.5707	32	56	1.3328	89.1370	89.1369	4.393	4.408
L_CI-104	4.3617	2.4682	18.0000	4.0086	32	45	2.2313	32	45	0.9191	89.1370	89.1369	4.538	4.571
L_MH-20	54.9964	5.7162	42.0000	73.3496	33	12	7.5690	33	12	1.3337	89.1369	89.1375	2.948	3.162
L_CI-103	4.3617	2.4682	18.0000	3.4640	16	14	2.0454	33	34	0.7942	89.1376	89.1375	4.152	4.185
L_MH-18B	59.1481	6.1477	42.0000	73.0583	33	10	7.5378	33	11	1.2352	89.1375	89.1391	3.305	3.520
L_MH-18A	60.9124	6.3311	42.0000	73.0766	33	10	7.5454	33	11	1.1997	89.1391	89.2141	3.520	3.835
L_CI-109	3.3218	1.8797	18.0000	1.8198	16	15	1.0871	15	29	0.5478	86.7261	86.7260	3.091	3.257
L_CI-110	7.1538	2.2771	24.0000	3.8610	16	15	1.2208	16	15	0.5397	86.7260	86.7259	2.693	2.818
L_CI-111	10.1170	3.2204	24.0000	5.8805	16	15	1.8585	16	15	0.5813	86.7259	86.7257	2.818	2.863
L_CI-112A	4.4389	2.5119	18.0000	3.3384	16	30	1.8610	16	30	0.7521	86.9413	86.8546	3.388	3.496
L_CI-112B	21.9898	3.1109	36.0000	34.0740	16	15	4.7878	16	15	1.5495	86.8546	86.7267	2.248	2.272
L_CI-113	23.8310	3.3714	36.0000	35.5348	16	15	4.9950	16	15	1.4911	86.7267	86.7264	2.272	2.292
L_MHI-67	29.8284	4.2199	36.0000	38.0782	16	20	5.3528	16	20	1.2766	86.7264	86.7257	2.292	2.419
L_MHI-68	45.8764	4.7683	42.0000	51.6703	16	15	5.3436	16	15	1.1263	86.7257	86.7251	2.216	2.336
L_CI-114	7.8366	2.4945	24.0000	8.6896	29	34	2.7393	29	34	1.1088	86.7252	86.7251	3.103	3.133
L_CI-115	3.3218	1.8797	18.0000	8.7394	29	34	4.8750	29	34	2.6310	86.7261	86.7252	3.737	3.803
L_CI-116	8.0829	2.5729	24.0000	7.5529	29	16	2.3786	29	16	0.9344	86.7267	86.7263	3.103	3.133
L_CI-117	3.3218	1.8797	18.0000	7.5465	29	16	4.2062	29	16	2.2718	86.7276	86.7267	3.738	3.804
L_MHI-69	14.2217	2.8972	30.0000	13.4490	16	0	2.7252	16	0	0.9457	86.7263	86.7251	2.707	2.794
L_MHI-70	71.6287	5.7000	48.0000	75.9063	16	10	6.0166	16	10	1.0597	86.7251	86.7221	2.169	2.516
L_CI-129	3.3218	1.8797	18.0000	9.4988	30	27	5.3109	30	27	2.8596	86.7390	86.7385	3.733	3.799
L_CI-128	7.3786	2.3487	24.0000	9.5081	30	27	3.0032	30	27	1.2886	86.7385	86.7384	3.099	3.124
L_CI-127	28.2977	4.0033	36.0000	50.8127	16	51	7.1309	16	50	1.7956	87.1847	87.0517	2.412	2.397
L_MHI-75	23.9588	3.3895	36.0000	42.2968	16	15	5.9436	16	14	1.7654	87.0517	86.7384	2.564	2.539
L_MHI-76	36.1850	3.7610	42.0000	50.8544	16	8	5.2607	16	8	1.4054	86.7384	86.7271	2.320	2.391
L_CI-125	4.4566	2.5219	18.0000	10.3901	29	45	5.7961	29	45	2.3314	86.7277	86.7271	3.792	3.851
L_CI-124	4.6977	2.6583	18.0000	9.1139	29	44	5.0918	29	44	1.9401	86.7288	86.7285	3.479	3.546
L_MHI-73	10.8674	3.4592	24.0000	7.3100	29	49	2.3054	29	49	0.6727	86.7285	86.7271	2.909	3.119
L_MHI-74	57.4573	4.5723	48.0000	65.4560	16	8	5.1890	16	8	1.1392	86.7271	86.7239	2.217	2.356
L_MH-23	57.5308	4.5782	48.0000	65.4455	16	8	5.1894	16	8	1.1376	86.7239	86.7221	2.356	2.473
L_CI-122	56.3415	4.4835	48.0000	19.9125	16	30	2.7434	14	38	0.3534	86.7236	86.7233	2.361	2.381
L_DI-15	3.2417	1.8344	18.0000	11.4938	17	21	6.3205	17	20	3.5456	89.8868	89.6599	5.745	5.607
L_MH-21	3.3457	1.8933	18.0000	11.4902	17	21	6.3301	17	21	3.4343	89.6599	88.9199	5.607	5.160
L_MH-22	3.2955	1.8649	18.0000	11.4864	17	21	6.3700	17	21	3.4855	88.9199	86.7233	5.160	3.862
L_MH-71	63.1946	5.0289	48.0000	44.2398	16	15	3.5075	16	15	0.7001	86.7233	86.7221	2.381	2.471
L_MHI-72	214.0353	6.4501	78.0000	198.0025	16	10	5.9529	16	10	0.9251	86.7221	86.7216	1.933	1.948
L_CI-130	4.6028	2.6046	18.0000	8.7404	29	41	4.8841	29	41	1.8989	85.7012	85.4176	3.454	3.585
L_CI-131	8.4645	2.6943	24.0000	16.4882	29	43	5.1953	29	43	1.9479	85.4176	85.4167	2.939	3.008
L_CI-132	13.8947	2.8306	30.0000	16.5843	29	43	3.3529	29	43	1.1936	85.4167	85.4162	2.607	2.634
L_CI-133	4.6028	2.6046	18.0000	8.0226	29	44	4.4799	29	44	1.7430	85.6777	85.4188	3.438	3.586
L_CI-134	8.4645	2.6943	24.0000	12.0955	29	45	3.8106	29	45	1.4290	85.4188	85.4183	2.939	3.009
L_CI-136	4.9270	2.7881	18.0000	8.9607	29	45	5.0058	29	45	1.8187	85.4190	85.4183	3.459	3.679
L_CI-135	18.0451	3.6761	30.0000	33.0886	16	15	6.6979	16	15	1.8337	85.4183	85.4179	2.607	2.655
L_MHI-77	24.7324	3.4989	36.0000	46.1453	16	13	6.4993	16	13	1.8658	85.4179	85.4162	2.379	2.452
L_MHI-78	49.4162	5.1362	42.0000	66.4796	16	13	6.8933	16	13	1.3453	85.4162	85.4115	2.167	2.343
L_MHI-80	72.9111	5.8021	48.0000	216.5183	15	55	17.1148	15	55	2.9696	88.6082	85.4115	3.382	2.730
L_CI-145	3.3785	1.9119	18.0000	8.2534	29	54	4.6008	29	54	2.4429	85.4143	85.4140	3.783	3.863
L_CI-147	4.1133	2.3276	18.0000	8.0633	30	51	4.5056	30	51	1.9603	85.4163	85.4142	4.004	4.156
L_MH-29	7.7816	2.4770	24.0000	8.5640	29	54	2.6960	29	54	1.1006	85.4139	85.4130	3.172	3.326
L_MH-30	26.7861	5.4568	30.0000	13.8180	16	15	2.8008	16	15	0.5159	85.4130	85.4126	3.005	3.121
L_CI-142	4.9795	2.8178	18.0000	8.1505	30	2	4.5488	30	2	1.6368	85.4129	85.4124	3.595	3.862
L_CI-143	39.4624	4.1016	42.0000	11.4593	29	9	1.1830	29	9	0.2904	85.4124	85.4124	2.226	2.284
L_MH-27	39.0883	4.0628	42.0000	11.4158	29	9	1.1798	32	46	0.2921	85.4124	85.4126	2.284	2.398
L_CI-141	5.5787	3.1569	18.0000	9.1278	30	4	5.0874	30	4	1.6362	85.4130	85.4126	4.415	4.488
L_MH-28	62.5918	4.9809	48.0000	28.1011	16	15	2.2276	16	15	0.4490	85.4126	85.4120	2.326	2.551
L_CI-139	7.1538	2.2771	24.0000	4.8498	30	41	1.5284	30	41	0.6779	85.4127	85.4124	3.571	3.671
L_MH-138	11.1145	3.5378	24.0000	7.3759	16	15	2.5549	15	20	0.6636	85.4124	85.4120	3.671	3.706
L_MH-26	78.6597	4.9458	54.0000	35.4531	16	15	2.2199	16	15	0.4507	85.4120	85.4114	2.378	2.449
L_MH-25	84.0043	5.2819	54.0000	35.4283	16	15	2.2174	16	15	0.4217	85.4114	85.4115	2.449	2.560
L_JCT137	98.4380	5.0134	60.0000	161.7389	16	10	8.1913	16	10	1.6431	85.4111	85.4107	2.722	2.736
L_CI-148	4.9473	2.7996	18.0000	9.9723	15	40	5.5791	15	40	2.0157	86.6161	85.3556	4.817	4.384
L_CI-149	9.5979	3.0551	24.0000	22.0592	23	20	6.9433	23	20	2.2983	85.3556	85.2298	3.538	3.520
L_MHI-81A	17.9872	3.6643	30.0000	26.8170	15	50	5.4230	15	50	1.4909	85.2298	85.0322	3.016	3.077
L_MHI-82	31.7972	4.4984	36.0000	35.7006	15	46	5.0231	15	46	1.1228	85.0322	85.0216	2.731	2.744
L_MH-31	26.7388	3.7828	36.0000	35.6864	15	46	5.0883	15	30	1.3346	85.0216	84.9137	2.744	2.828
L_CI-150	5.1608	2.9204	18.0000	4.4935	28	22	3.1374	15	37	0.8707	84.9141	84.9137	4.129	4.176
L_CI-151	4.4127	2.4971	18.0000	12.3106	15	44	6.8848	15	44	2.7898	85.2519	85.0639	4.401	4.336
L_MHI-83	12.4565	3.9650	24.0000	16.0227	15	45	5.0629	15	45	1.2863	85.0639	84.9202	3.502	3.715
L_MHI-84	21.4205	4.3637	30.0000	22.8644	15	45	5.5309	15	32	1.0674	84.9202	84.9137	3.172	3.193
L_MH-32	53.7464	4.2770	48.0000	60.3741	15	46	4.7876	15	46	1.1233	84.9137	84.8071	2.371	2.519
L_MH-33	60.7004	4.8304	48.0000	64.2136	15	46	5.0928	15	46	1.0579	84.8071	84.7781	2.519	2.575
L_CI-152	4.5724	2.5874	18.0000	7.7376	26	31	4.3161	26	31	1.6923	84.8126	84.8081	4.448	4.685
L_CI-153	9.2356	2.9398	24.0000	11.3014	24	24	3.5611	24	24	1.2237	84.8081	84.8071	3.514	3.549
L_CI-154	4.5574	2.5790	18.0000	7.7551	15	40	4.3202	15	40	1.7016	85.2326	85.0440	5.562	5.649
L_CI-155	9.4167	2.9974	24.0000	14.3937	15	40	4.5363	15	40	1.5285	85.0440	84.8460	4.487	4.563
L_CI-157	3.6297	2.0540	18.0000	7.1264	28	23	3.9795	28	23	1.9633	84.8694	84.8521	4.766	4.915
L_CI-156	9.2356	2.9398	24.0000	15.6032	15	48	4.9199	15	48	1.5895	84.8521	84.8460	3.936	3.968
L_MH-34	20.7572	4.2286	30.0000	27.7082	15	42	5.5988	15	42	1.3349	84.8460	84.8006	3.850	3.916
L_CI-159	3.7874	2.1432	18.0000	10.6632	15	50	5.9590	15	50	2.8155	84.8944	84.7962	4.563	4.671
L_CI-158	8.5505	2.7217	24.0000	20.8954	16	0	6.5963	16	0	2.4438	84.7962	84.7836	3.753	3.772
L_CI-160	3.3641	1.9037	18.0000	9.2807	25	35	5.1811	25	35	2.7588	84.8462	84.8367	4.351	4.398
L_MHI-85	12.1851	3.8786	24.0000	13.8770	15	45	4.3857	15	45	1.1388	84.8367	84.8136	3.548	3.772
L_MHI-86	19.1840	3.9081	30.0000	20.7492	15	46	4.4436	15	31	1.0816	84.8136	84.8094	3.217	3.244
L_CI-161	11.1145	3.5378	24.0000	5.0558	28	23	2.7482	15	23	0.4549	84.8096	84.8094	4.245	4.280
L_MH-40	32.0308	4.5314	36.0000	24.5557	15	46	3.4493	15	46	0.7666	84.8094	84.7836	3.186	3.585
L_MH-35	56.9420	4.5313	48.0000	71.4499	15	50	5.6502	15	50	1.2548	84.7836	84.7781	2.938	2.965
L_MH-36	189.4857	7.9756	66.0000	135.0171	15	47	5.6568	15	47	0.7125	84.7781	84.7395	2.429	2.667
L_CI-100B	4.2017	2.3777	18.0000	6.2349	16	15	3.4635	16	15	1.4839	89.1840	89.1832	4.783	4.835
L_CI-100A	7.5223	4.2568	18.0000	6.2311	16	15	3.4617	16	15	0.8283	89.1832	89.1828	4.835	4.969
L_JCT-18A	622.0437	6.4796	144.0000	605.5535	17	16	-9.1707	0	0	0.9735	89.2141	89.1828	1.450	1.451
L_CI-102A	5.1686	2.9248	18.0000	6.7499	31	51	3.7498	31	51	1.3059	89.4243	89.4193	5.090	5.240
L_JCT102A	622.0437	6.4796	144.0000	610.2767	17	16	-7.4511	0	1	0.9811	89.4193	89.3814	1.442	1.443
L_CI-118	3.2528	1.8407	18.0000	9.6975	29	0	5.3380	29	0	2.9813	86.7238	86.7216	5.729	5.774
L_CI-120	3.3218	1.8797	18.0000	3.2089	30	15	1.7769	30	15	0.9660	86.7239	86.7227	5.623	5.722
L_CI-119	7.2450	2.3061	24.0000	6.8096	30	19	2.1310	30	19	0.9399	86.7227	86.7216	4.541	4.581
L_JCT-72	219.5955	6.6177	78.0000	203.5292	16	10	6.1190	16	10	0.9268	86.7216	86.7213	1.948	1.963
L_CI-126	3.3218	1.8797	18.0000	-5.8606	16	15	-3.2664	16	15	-1.7643	87.3844	87.3238	4.190	4.223
L_MH-24	22.5482	3.1899	36.0000	54.9911	16	45	7.7157	16	45	2.4388	87.3238	87.1847	2.445	2.412
L_CI-137	4.9749	2.8152	18.0000	9.4694	29	39	5.1965	29	39	1.9034	85.4114	85.4111	6.294	6.454
L_CI-144	7.2265	2.3003	24.0000	8.5981	29	52	2.7052	29	52	1.1898	85.4140	85.4139	3.147	3.172
L_CI-146	9.3517	2.9767	24.0000	8.9347	30	36	2.8175	30	36	0.9554	85.4142	85.4130	3.372	3.506
L_CI-155A	4.0620	2.2986	18.0000	8.1311	28	16	4.5310	28	16	2.0018	84.7802	84.7810	4.953	5.061
L_CI-155B	4.6977	2.6583	18.0000	-11.6207	17	6	-6.4208	17	6	-2.4737	84.7810	84.8006	5.061	5.107
L_MH-34A	20.8544	4.2484	30.0000	27.9438	15	42	5.6495	15	42	1.3399	84.8006	84.7836	3.916	4.061
L_CI-75	5.0377	2.8508	18.0000	3.3948	16	15	1.8944	16	15	0.6739	91.8398	91.8382	4.167	4.319
L_CI-78A	10.8089	6.1166	18.0000	-3.2464	16	28	-1.7975	16	28	-0.3003	91.8357	91.8357	4.990	5.230
L_JCT-78A	100.2718	6.3047	54.0000	68.4214	15	51	4.2835	15	51	0.6824	91.8357	91.8337	2.306	2.421
L_CI-81A	3.9304	2.2241	18.0000	7.0448	29	32	3.9093	29	32	1.7924	91.8401	91.8383	4.507	4.552
L_CI-88	3.4081	1.9286	18.0000	8.6482	30	26	4.7672	30	26	2.5376	91.2028	91.2013	6.095	6.161
L_CI-90	3.3218	1.8797	18.0000	8.3775	30	41	4.6216	30	41	2.5220	91.2036	91.2018	6.049	6.115
L_CI-89	8.0706	2.5690	24.0000	8.4211	30	45	2.6324	30	45	1.0434	91.2018	91.2013	4.836	4.871
Link687	3.3218	1.8797	18.0000	9.5569	31	9	5.3352	31	9	2.8770	91.8245	91.8239	4.076	4.109
Link688	4.6977	2.6583	18.0000	6.3428	31	10	3.5460	31	10	1.3502	91.8239	91.8424	4.109	4.388
L-JCT-54	201.7944	6.0812	78.0000	219.2705	16	0	6.5840	16	0	1.0866	91.2012	91.2011	2.037	2.049
Link691	78.6366	6.2577	48.0000	64.4003	30	57	5.0817	30	57	0.8190	91.2016	91.2014	2.605	2.850
L-JCT-19	615.6636	6.4132	144.0000	609.9535	17	16	-6.8809	0	1	0.9907	89.3813	89.2141	1.443	1.450
L-MHI-79	105.2347	5.3596	60.0000	160.5019	16	10	8.1275	16	10	1.5252	85.4115	85.4111	2.706	2.722
Link700	3.4839	1.9715	18.0000	4.2355	30	37	2.3643	30	37	1.2157	85.4132	85.4127	4.282	4.428
Link714	3.3218	1.8797	18.0000	9.1525	27	54	5.0980	27	54	2.7553	91.2057	91.2056	3.717	3.750
Link715	3.3385	1.8892	18.0000	9.1343	29	28	5.0910	29	28	2.7360	86.7259	86.7236	3.851	3.916
L-MHI-72X	149.5435	0.0000	153.2400	203.3979	16	10	0.8978	16	3	1.3601	86.7213	86.7213	0.999	0.999
L-C-2	10560.64	24.6614	149.2800	-217.573	16	0	1.6168	12	20	-0.0206	91.2011	91.2011	0.704	1.071 *
L-F-1	1458.121	2.4980	150.1200	300.1683	16	0	2.3970	15	38	0.2059	85.4107	85.4100	0.903	0.937

L-B-3	1238.810	2.8090	117.3600	598.0996	18	43	2.7646	14	41	0.4828	91.8337	91.8153	0.971	0.985	
L-B-4	1449.612	4.8922	81.6000	574.6549	19	17	1.9394	19	17	0.3964	91.9079	91.8337	1.281	1.396	*
L-B-5	2224.350	4.7039	101.5200	574.7173	19	15	1.6626	14	53	0.2584	91.9150	91.9079	1.008	1.029	*
L-MH-D2	622.0437	6.4796	144.0000	612.2353	17	15	6.3635	17	15	0.9842	89.5377	89.4193	1.440	1.442	
L-B-6	765.4425	3.0706	118.3200	574.8398	19	15	5.1477	15	5	0.7510	92.6446	91.9150	0.891	0.865	
L-B-1	1350.018	4.1168	134.8800	598.1199	18	44	4.1668	10	56	0.4430	91.7833	91.6400	0.941	1.101	*
L-B-2	4268.915	6.4243	141.3600	598.0992	18	44	4.7257	14	14	0.1401	91.8153	91.7833	0.818	0.898	
L-MHI-54X	92.5214	0.0000	149.2800	219.0620	16	1	0.7914	15	54	2.3677	91.2011	91.2011	1.071	1.071	*
L-C-1	311.0631	1.1439	94.5600	211.2829	16	0	1.6467	15	51	0.6792	91.2011	91.2000	1.112	1.128	*
L-MH-18	652.4049	6.7959	144.0000	606.8462	17	16	-7.5503	0	0	0.9302	89.1828	89.1417	1.451	1.457	
L-E-2	12247.69	27.3523	153.2400	-202.492	16	10	-1.2831	16	2	-0.0165	86.7213	86.7213	0.658	0.999	
L-E-1	692.8789	2.4940	100.9200	199.2827	16	6	3.6958	15	50	0.2876	86.7213	86.7200	0.999	1.037	*
L-D-1	1301.098	13.5531	144.0000	606.0461	17	16	-7.3348	0	0	0.4658	89.1417	89.1400	1.457	1.515	
L-MHI-79X	239.7740	0.0000	178.8000	323.0863	16	10	1.3734	15	46	1.3475	85.4107	85.4107	0.918	0.918	
L-G-4	106.2095	3.7564	72.0000	134.9762	15	47	4.7523	15	47	1.2708	84.7395	84.7179	2.528	2.575	
L-G-2	189.3467	5.7061	78.0000	295.9007	16	9	8.8761	16	8	1.5627	84.3392	84.2043	2.435	2.461	
L-G-1	165.7910	4.9963	78.0000	295.8656	16	9	8.8779	16	8	1.7846	84.2043	84.1500	2.461	2.468	
L-G-3	117.4580	3.5397	78.0000	295.9472	16	8	8.8693	16	8	2.5196	84.7179	84.3392	2.454	2.435	
L-F-OFF	64.2392	5.1120	48.0000	232.6986	16	6	18.2916	16	5	3.6224	89.7828	88.6082	3.641	3.382	
L_MH-B1	24.8279	3.5124	36.0000	53.5013	16	10	7.4407	16	10	2.1549	93.1964	92.7011	4.092	3.980	
L_MH-B2	25.1099	3.5523	36.0000	50.2569	16	3	7.0007	16	3	2.0015	92.7011	92.1445	3.980	3.865	
Link741	36.5397	3.7979	42.0000	50.2494	16	3	5.1607	16	3	1.3752	92.1445	91.8424	3.396	3.449	
FREE # 1	Undefnd	Undefnd	Undefn	606.0461	17	16									
FREE # 2	Undefnd	Undefnd	Undefn	199.2827	16	6									
FREE # 3	Undefnd	Undefnd	Undefn	211.2829	16	0									
FREE # 4	Undefnd	Undefnd	Undefn	300.1683	16	0									
FREE # 5	Undefnd	Undefnd	Undefn	598.1199	18	45									
FREE # 6	Undefnd	Undefnd	Undefn	295.8656	16	9									

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| Table E14 - Natural Channel Overbank Flow Information |
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	<---- Maximum Velocity ----->			<------ Maximum Flow ------->			<------ Maximum Area ------>			<--- Max. Storage Volume --->			
Conduit Name	Left Velocity	Center Velocity	Right Velocity	Left Flow	Center Flow	Right Flow	Left Area	Center Area	Right Area	Left Area	Center Area	Right Area	Maximum Depth
L-MHI-72X	0.0799	0.4733	0.0586	1.4951	201.7855	0.1173	18.7009	426.3092	2.0039	187.0087	4263.0923	20.0389	12.7613
L-C-2	0.0000	0.6475	0.0000	0.0000	217.5727	0.0000	0.0000	336.0100	0.0000	0.0000	11760.349	0.0000	11.1151
L-F-1	0.0000	0.6944	0.1196	0.0000	296.4264	3.7420	0.0000	426.8982	31.2838	0.0000	364997.93	26747.652	11.5004
L-B-3	0.1832	1.5816	0.3811	1.7702	587.8913	8.4381	9.6627	371.7079	22.1385	859.9782	33082.004	1970.3242	9.5575
L-B-4	0.0000	1.9588	0.0000	0.0000	574.6549	0.0000	0.0000	293.3756	0.0000	0.0000	92119.953	0.0000	6.7590
L-B-5	0.1231	1.2536	0.1398	0.7909	572.6040	1.3225	6.4254	456.7771	9.4566	385.5239	27406.627	567.3974	8.4584
L-B-6	0.0000	4.0221	0.6418	0.0000	566.1259	8.7140	0.0000	140.7521	13.5777	0.0000	33499.002	3231.4906	8.6192
L-B-1	0.0000	2.0968	0.0000	0.0000	598.1199	0.0000	0.0000	285.2514	0.0000	0.0000	94132.950	0.0000	10.9106
L-B-2	0.0000	1.8072	0.8783	0.0000	494.4183	103.6809	0.0000	273.5881	118.0505	0.0000	45962.796	15700.716	10.0605
L-MHI-54X	0.0400	0.5362	0.0002	0.7232	218.3388	0.0000	18.0978	407.1705	0.0000	180.9781	4071.7053	0.0003	12.4213
L-C-1	0.0797	0.8450	0.2068	1.7147	208.9101	0.6581	21.5210	247.2338	3.1828	5724.5867	65764.191	846.6381	7.8800
L-E-2	0.0000	0.5962	0.0000	0.0000	202.4917	0.0000	0.0000	339.6202	0.0000	0.0000	22075.315	0.0000	11.1837
L-E-1	0.1810	0.7653	0.1114	3.6359	195.4207	0.2261	20.0898	255.3524	2.0293	6428.7237	81712.760	649.3739	8.4061
L-MHI-79X	0.0645	0.6132	0.0681	0.0532	321.5554	1.4776	0.8251	524.4315	21.6950	8.2509	5244.3147	216.9504	13.6807

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| Table E14a - Natural Channel Encroachment Information |
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	<------- Existing Conveyance Condition ------->						<----- Encroachment Conveyance Condition ----->						<- % Volume -->		<-- Encroachment Data -->	
Conduit Name	Left Bank	Centre Channel	Right Bank	Total	Left Station	Right Station	Left Bank	Centre Channel	Right Bank	Total	Left Station	Right Station	Reduction Left	Reduction Right	Depth Incr.	Method
L-MHI-72X	427.91	57753.5	33.584	58215.0	100.000	187.66	427.91	57753.5	33.584	58215.0	100.000	187.66	0.0000	0.0000	0.0000	None
L-C-2	0.0000	40400.6	0.0000	40400.6	212.19	264.65	0.0000	40400.6	0.0000	40400.6	212.19	264.65	0.0000	0.0000	0.0000	None
L-F-1	0.0000	62017.2	782.88	62800.1	114.05	232.70	0.0000	62017.2	782.88	62800.1	114.05	232.70	0.0000	0.0000	0.0000	None
L-B-3	110.43	36672.4	526.36	37309.2	147.86	282.96	110.43	36672.4	526.36	37309.2	147.86	282.96	0.0000	0.0000	0.0000	None
L-B-4	0.0000	27313.8	0.0000	27313.8	211.68	283.13	0.0000	27313.8	0.0000	27313.8	211.68	283.13	0.0000	0.0000	0.0000	None
L-B-5	73.658	53330.5	123.17	53527.3	100.000	235.31	73.658	53330.5	123.17	53527.3	100.000	235.31	0.0000	0.0000	0.0000	None
L-B-6	0.0000	13726.0	211.27	13937.3	109.17	173.15	0.0000	13726.0	211.27	13937.3	109.17	173.15	0.0000	0.0000	0.0000	None
L-B-1	0.0000	20669.3	0.0000	20669.3	150.53	249.49	0.0000	20669.3	0.0000	20669.3	150.53	249.49	0.0000	0.0000	0.0000	None
L-B-2	0.0000	23599.9	4949.0	28548.9	147.04	288.92	0.0000	23599.9	4949.0	28548.9	147.04	288.92	0.0000	0.0000	0.0000	None
L-MHI-54X	178.07	53759.4	.11E-05	53937.4	136.20	266.12	178.07	53759.4	.11E-05	53937.4	136.20	266.12	0.0000	0.0000	0.0000	None
L-C-1	214.29	26108.6	82.251	26405.1	100.000	263.24	214.29	26108.6	82.251	26405.1	100.000	263.24	0.0000	0.0000	0.0000	None
L-E-2	0.0000	40981.5	0.0000	40981.5	128.84	181.58	0.0000	40981.5	0.0000	40981.5	128.84	181.58	0.0000	0.0000	0.0000	None
L-E-1	482.09	25911.1	29.976	26423.2	100.000	187.68	482.09	25911.1	29.976	26423.2	100.000	187.68	0.0000	0.0000	0.0000	None
L-MHI-79X	12.551	75836.6	348.49	76197.6	114.59	232.70	12.551	75836.6	348.49	76197.6	114.59	232.70	0.0000	0.0000	0.0000	None

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| Table E14b - Floodplain Mapping |
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					<----- Left Offsets ------>		<----- Right Offsets ------>		<- Channel Widths->	
Conduit Name	Upstream WS Elev.	Downstream WS Elev.	Channel Length	Center Station	Natural	Encroach Bank	Natural	Encroach Bank	Total	Encroach.
L-MHI-72X	86.7213	86.7213	10.0000	159.2100	59.2101	59.2101	31.8000	28.4531	28.4531	23.8000	87.6632	87.6632
L-C-2	91.2011	91.2011	35.0000	242.4200	30.2301	30.2301	31.5000	22.2301	22.2301	23.7000	52.4603	52.4603
L-F-1	85.4107	85.4100	855.0000	150.8200	36.7668	36.7668	37.4500	81.8800	81.8800	26.0800	118.6469	118.6469
L-B-3	91.8337	91.8153	89.0000	202.9200	55.0639	55.0639	33.6700	80.0401	80.0401	50.0200	135.1040	135.1040
L-B-4	91.9079	91.8337	314.0000	262.0300	50.3470	50.3470	56.3200	21.1038	21.1038	26.5000	71.4508	71.4508
L-B-5	91.9150	91.9079	60.0000	154.9900	54.9901	54.9901	28.5000	80.3201	80.3201	48.7400	135.3102	135.3102
L-B-6	92.6446	91.9150	238.0000	125.0600	15.8857	15.8857	17.4200	48.0920	48.0920	12.2600	63.9777	63.9777
L-B-1	91.7833	91.6400	330.0000	181.1800	30.6524	30.6524	36.8300	68.3056	68.3056	71.5900	98.9580	98.9580

L-B-2	91.8153	91.7833	168.0000	179.7800	32.7411	32.7411	50.6500	109.1400	109.1400	40.1600	141.8811	141.8811
L-MHI-54X	91.2011	91.2011	10.0000	242.4200	106.2197	106.2197	31.5000	23.7001	23.7001	23.7000	129.9198	129.9198
L-C-1	91.2011	91.2000	266.0000	238.7800	138.7801	138.7801	27.8600	24.4601	24.4601	21.5400	163.2402	163.2402
L-E-2	86.7213	86.7213	65.0000	159.2100	30.3674	30.3674	31.8000	22.3674	22.3674	23.8000	52.7348	52.7348
L-E-1	86.7213	86.7200	320.0000	157.0600	57.0601	57.0601	29.6500	30.6181	30.6181	24.8700	87.6782	87.6782
L-MHI-79X	85.4107	85.4107	10.0000	153.6000	39.0137	39.0137	36.9000	79.1000	79.1000	25.0800	118.1137	118.1137

Table E15 - SPREADSHEET INFO LIST

Conduit Flow and Junction Depth Information for use in spreadsheets. The maximum values in this table are the true maximum values because they sample every time step. The values in the review results may only be the maximum of a subset of all the time steps in the run.

Note: These flows are only the flows in a single barrel.

Conduit Name	Maximum Flow (cfs)	Total Flow (ft^3)	Maximum Velocity (ft/s)	Maximum Volume (ft^3)	##	Junction Name	Invert Elevation (ft)	Maximum Elevation (ft)
L_CI-67	3.5362	23857.1489	0.7160	241.8595	##	CI-84	85.4300	91.2037
L_MHI-41	12.6733	77116.8670	2.5652	1047.2143	##	MH-20	78.8200	89.1369
L_CI-68	3.4163	20753.0480	2.4747	96.3321	##	CI-113	79.9100	86.7267
L_MHI-42	25.0886	150332.9992	3.5284	2672.5451	##	CI-120	78.2900	86.7239
L_CI-71	2.0914	10155.0926	1.1695	408.8888	##	MHI-79	71.8800	85.4115
L_CI-72	4.2000	22875.1208	1.3227	175.3240	##	MH-28	76.1100	85.4126
L_CI-69	6.8780	38599.3368	3.8513	444.2816	##	MHI-75	79.3600	87.0517
L_CI-70	22.4025	212340.3214	7.0575	161.3769	##	MHI-74	77.8600	86.7271
L_MHI-43	13.4628	287994.7913	2.7283	941.7084	##	CI-135	78.9000	85.4183
L_MHI-44	46.1590	502188.7842	3.6606	3965.2613	##	CI-158	77.2900	84.7962
L_CI-73	7.4988	38390.0871	4.2012	417.0406	##	MHI-84	76.9900	84.9202
L_CI-74	8.9096	27053.5959	4.9784	92.6271	##	MHI-85	77.7400	84.8367
L_MHI-45	56.0342	636888.1586	4.4392	6971.8560	##	MH-40	75.2500	84.8094
L_CI-77A	7.0917	25796.3866	3.9636	277.1966	##	CI-161	76.3200	84.8096
L_CI-77B	7.7541	52318.9400	2.4439	487.4242	##	CI-159	78.0500	84.8944
L_CI-78	-10.6116	65786.9066	-3.3293	118.5626	##	MH-34	75.2200	84.8460
L_CI-73A	2.6772	16752.8219	1.4949	188.9574	##	CI-156	76.9800	84.8521
L_CI-76	5.1208	32055.9776	1.6125	144.9099	##	CI-160	78.3200	84.8462
L_MHI-46	-12.0712	86444.1684	-2.4268	1296.7788	##	CI-157	77.7200	84.8694
L_MHI-47	66.4533	803177.3180	4.1618	2484.2577	##	MH-34A	75.0100	84.8006
L_CI-79	8.2029	16813.3279	4.5546	185.2541	##	CI-155	76.0700	85.0440
L_CI-80	8.2599	20340.4590	2.5945	164.6703	##	MH-33	74.7300	84.8071
L_CI-81	8.2584	30694.9673	4.5704	92.8347	##	CI-153	77.7800	84.8081
L_MHI-48	-14.1275	66876.8531	-2.8399	1029.1895	##	CI-154	76.8900	85.2326
L_MHI-49	-24.8883	145495.1316	-3.4810	1333.8296	##	MHI-83	78.0600	85.0639
L_CI-82	3.4653	24713.7982	1.9317	94.4796	##	MH-32	75.4300	84.9137
L_MHI-50	61.9583	1103333.327	4.8849	3278.5787	##	CI-150	78.7200	84.9141
L_CI-83	11.1698	87920.9520	3.5297	599.3999	##	MH-31	76.7900	85.0216
L_CI-84	11.7357	40747.5856	6.5514	92.6271	##	CI-146	78.6700	85.4142
L_MHI-52	24.0852	192555.9108	4.8817	1397.4134	##	CI-145	79.7400	85.4143
L_CI-85	7.5936	18042.0916	4.2264	277.8812	##	MH-29	79.0700	85.4139
L_CI-86	10.3728	26706.1680	3.2620	358.9813	##	MH-27	77.4200	85.4124
L_CI-87	160.7553	1741821.542	10.0191	917.0079	##	CI-143	77.6200	85.4124
L_MHI-53	149.0286	1772615.071	9.3108	3551.3214	##	MH-26	74.7100	85.4120
L_CI-91	10.6088	21909.5213	5.9348	185.2541	##	CI-142	80.0200	85.4129
L_CI-92	21.3067	48982.2661	6.7202	105.3890	##	MHI-80	75.0800	88.6082
L_CI-93	37.3029	219918.2404	3.8575	1008.6058	##	MH-25	74.3900	85.4114
L_CI-94	24.6379	229540.2569	1.9518	3306.5802	##	MHI-77	78.2800	85.4179
L_MH-13	28.3407	291620.2745	2.2420	2634.7252	##	MHI-78	77.8300	85.4162
L_CI-96A	10.4296	37545.3144	5.8193	75.9542	##	CI-131	79.5400	85.4176
L_CI-95A	8.9188	16755.7761	4.9802	70.3966	##	CI-134	79.5400	85.4188
L_MHI-55	10.3414	87141.3407	3.2670	652.6237	##	CI-133	80.5200	85.6777
L_MHI-56	53.1966	461983.0842	4.2070	3939.7192	##	CI-130	79.7000	85.7012
L_MHI-54	213.1015	2520557.269	6.3987	1982.8366	##	CI-129	81.1400	86.7390
L_CI-95B	18.2928	267148.3883	10.1394	92.6270	##	CI-128	80.5400	86.7385
L_MHI-57	15.9194	345764.2446	5.0381	605.6233	##	MHI-76	78.6200	86.7384
L_MHI-58	22.0691	446895.0838	6.9789	69.1615	##	CI-127	79.9500	87.1847
L_CI-96B	3.3350	22317.6818	1.8614	53.7237	##	MH-24	79.9900	87.3238
L_MH-14	23.8106	469133.3729	4.8291	1548.1839	##	CI-126	81.0400	87.3244
L_CI-98	3.5654	24304.9795	1.9879	53.7237	##	CI-124	81.5100	86.7288

L_CI-97	9.0649	25693.7614	5.0563	92.6271	##	MHI-73	80.9100	86.7285
L_MHI-59	9.6329	69390.3682	1.9465	936.5624	##	CI-125	81.0400	86.7277
L_MHI-60	15.2286	111064.5863	3.0783	108.0649	##	MH-22	81.1800	88.9199
L_MH-15	37.0561	604471.7443	5.1972	1467.2126	##	MH-23	77.3000	86.7239
L_CI-99	-3.1883	12041.5030	-1.7728	92.6271	##	MHI-72	74.1600	86.7221
L_CI-100	6.8535	38346.0387	3.8210	53.7237	##	MHI-71	77.2000	86.7233
L_MH-16	43.4518	642778.2163	4.4690	1412.0481	##	CI-122	77.2800	86.7236
L_MH-17	43.4332	642924.0349	4.4527	1149.8106	##	CI-119	77.6400	86.7227
L_CI-101	9.9173	21764.5808	5.5337	249.4806	##	CI-118	75.1300	86.7238
L_CI-102	10.2626	50853.5104	2.0716	210.9839	##	CI-115	81.1200	86.7261
L_MH-19	10.4859	50834.4698	2.1160	891.9295	##	CI-117	81.1200	86.7276
L_CI-106	9.2533	11333.2321	5.1636	92.6270	##	CI-116	80.5200	86.7267
L_MHI-66	12.1394	49900.4742	3.8282	658.6813	##	MHI-67	79.8500	86.7264
L_CI-105	4.5195	17352.2155	2.5139	92.6271	##	MHI-68	78.9700	86.7257
L_CI-108	11.8682	14172.3695	6.6116	113.0050	##	CI-111	81.0900	86.7259
L_MHI-64	33.7594	65317.9760	10.6850	503.8912	##	CI-114	80.5200	86.7252
L_CI-107B	5.1698	14288.0287	2.8758	92.6271	##	MHI-70	78.0500	86.7251
L_CI-107A	11.4998	20041.2791	7.2292	92.6271	##	CI-109	82.0900	86.7261
L_MHI-61	31.3013	87423.1440	9.8619	329.3406	##	MHI-64	81.3500	89.1392
L_MHI-63	67.0384	193960.5926	9.4134	1348.6500	##	CI-108	81.9600	89.1395
L_MHI-65	73.9605	291924.3832	7.6273	1028.7779	##	MHI-63	80.0900	89.1381
L_MHI-62	11.3961	70765.7964	3.5707	69.1615	##	CI-107A	81.9700	89.1393
L_CI-104	4.0086	14072.3703	2.2313	53.7237	##	MHI-61	81.3600	89.1390
L_MH-20	73.3496	376639.1126	7.5690	2519.0323	##	MHI-62	80.3500	89.1370
L_CI-103	3.4640	20845.5955	2.0454	53.7237	##	MHI-65	79.0200	89.1372
L_MH-18B	73.0583	397411.2985	7.5378	2172.1884	##	CI-105	82.0700	89.1373
L_MH-18A	73.0766	397383.5989	7.5454	2768.2551	##	CI-106	82.6800	89.1385
L_CI-109	1.8198	9540.5403	1.0871	462.4187	##	MHI-66	82.1200	89.1382
L_CI-110	3.8610	21771.4843	1.2208	823.3515	##	CI-104	82.3300	89.1370
L_CI-111	5.8805	33818.5842	1.8585	148.2033	##	MH-18B	77.5700	89.1375
L_CI-112A	3.3384	19606.8016	1.8610	258.9595	##	CI-103	82.9100	89.1376
L_CI-112B	34.0740	375218.6877	4.7878	1363.4703	##	CI-102	81.7000	89.3861
L_CI-113	35.5348	383859.9572	4.9950	348.2777	##	CI-101	82.9600	89.3902
L_MHI-67	38.0782	420631.6446	5.3528	1407.9313	##	MHI-59	82.6500	89.4850
L_MHI-68	51.6703	501277.0078	5.3436	2037.3836	##	CI-98	83.4400	89.4844
L_CI-114	8.6896	33107.8053	2.7393	164.6703	##	CI-99	82.9600	89.3154
L_CI-115	8.7394	18646.5848	4.8750	185.2541	##	CI-100	82.9100	89.3151
L_CI-116	7.5529	30547.0996	2.3786	154.7901	##	MH-16	78.1200	89.3142
L_CI-117	7.5465	16383.5061	4.2062	185.2541	##	CI-95B	84.5600	92.0207
L_MHI-69	13.4490	82526.3073	2.7252	941.7084	##	MHI-57	84.0000	90.9098
L_MHI-70	75.9063	667926.2426	6.0166	7142.4515	##	MHI-58	83.5400	90.1383
L_CI-129	9.4988	12294.5164	5.3109	185.2541	##	MH-14	83.0200	90.0221
L_CI-128	9.5081	26786.2726	3.0032	154.7901	##	CI-93	83.0500	91.2046
L_CI-127	50.8127	847017.1752	7.1309	370.5082	##	CI-94	82.3800	91.2045
L_MHI-75	42.2968	920739.2192	5.9436	1378.2906	##	CI-95A	84.9100	91.2043
L_MHI-76	50.8544	1016510.765	5.2607	2027.2976	##	MHI-55	84.3300	91.2036
L_CI-125	10.3901	18102.8293	5.7961	92.6271	##	MHI-56	81.6800	91.2035
L_CI-124	9.1139	20797.4088	5.0918	92.6271	##	CI-96A	84.6600	91.2042
L_MHI-73	7.3100	51183.1619	2.3054	596.1986	##	CI-92	84.3000	91.2044
L_MHI-74	65.4560	1115149.256	5.1890	4610.7691	##	MH-13	82.0000	91.2041
L_MH-23	65.4455	1113011.547	5.1894	3859.8724	##	CI-91	84.9100	91.2058
L_CI-122	19.9125	335516.1325	2.7434	685.0286	##	MHI-54	78.0500	91.2014
L_DI-15	11.4938	241645.1431	6.3205	38.9034	##	CI-88	82.0600	91.2028
L_MH-21	11.4902	241638.8955	6.3301	127.8253	##	MHI-52	84.3300	91.2035
L_MH-22	11.4864	241245.9975	6.3700	469.8656	##	CI-81	85.0100	91.8383
L_MH-71	44.2398	651097.2996	3.5075	2450.2945	##	MHI-50	79.2700	91.8424
L_MHI-72	198.0025	2503793.579	5.9529	2087.1964	##	MHI-49	82.7500	91.8357
L_CI-130	8.7404	24704.3796	4.8841	462.5997	##	MHI-48	83.4500	91.8340
L_CI-131	16.4882	48592.2658	5.1953	329.3406	##	CI-79	84.6100	91.8362
L_CI-132	16.5843	63742.6979	3.3529	313.9028	##	MHI-47	81.8500	91.8366
L_CI-133	8.0226	19910.4017	4.4799	459.9379	##	MHI-46	83.5400	91.8377
L_CI-134	12.0955	39608.8582	3.8106	329.3407	##	CI-76	84.8600	91.8382
L_CI-136	8.9607	24951.8995	5.0058	275.6783	##	CI-75	85.5900	91.8398
L_CI-135	33.0886	350164.8684	6.6979	319.0488	##	CI-78	84.5600	91.8374

L_MHI-77	46.1453	427041.6871	6.4993	1185.6263	##	CI-77A	85.5800	91.8393
L_MHI-78	66.4796	559325.7787	6.8933	2585.4158	##	CI-74	86.3800	91.8438
L_MHI-80	216.5183	6612829.378	17.1148	3016.7047	##	MHI-45	83.7800	91.8391
L_CI-145	8.2534	13936.5493	4.6008	214.8947	##	CI-73	86.8100	91.8424
L_CI-147	8.0633	23596.6613	4.5056	277.8180	##	CI-70	86.5000	92.0654
L_MH-29	8.5640	41561.8412	2.6960	862.6013	##	MHI-44	84.2300	91.8417
L_MH-30	13.8180	88446.0358	2.8008	349.9244	##	CI-72	86.2900	91.8462
L_CI-142	8.1505	29021.6277	4.5488	326.2472	##	CI-112B	80.1100	86.8546
L_CI-143	11.4593	59054.3975	1.1830	1311.1874	##	MHI-86	76.7700	84.8136
L_MH-27	11.4158	59040.1663	1.1798	2672.8052	##	CI-155A	77.3500	84.7802
L_CI-141	9.1278	20344.2751	5.0874	72.2491	##	CI-155B	77.1900	84.7810
L_MH-28	28.1011	167770.1461	2.2276	6187.1428	##	MH-35	73.0300	84.7836
L_CI-139	4.8498	24987.0977	1.5284	658.6813	##	MH-36	71.4200	84.7781
L_CI-138	7.3759	45003.6051	2.5549	95.5088	##	CI-151	78.6500	85.2519
L_MH-26	35.4531	212527.8543	2.2199	3334.5741	##	CI-152	78.1400	84.8126
L_MH-25	35.4283	211832.8709	2.2174	4568.3665	##	CI-149	78.2800	85.3556
L_JCT137	161.7389	7508735.817	8.1913	1920.0917	##	CI-148	79.3900	86.6161
L_CI-148	9.9723	155294.6892	5.5791	508.7642	##	MHI-82	76.8400	85.0322
L_CI-149	22.0592	273392.2160	6.9433	164.6703	##	MHI-81	77.6900	85.2298
L_MHI-81A	26.8170	382593.4633	5.4230	936.5625	##	CI-147	79.4100	85.4163
L_MHI-82	35.7006	472866.8809	5.0231	163.0236	##	MH-30	77.9000	85.4130
L_MH-31	35.6864	472342.6433	5.0883	1659.8769	##	CI-144	79.1200	85.4140
L_CI-150	4.4935	20504.0825	3.1374	53.7237	##	CI-141	78.7900	85.4130
L_CI-151	12.3106	198693.7196	6.8848	94.4796	##	CI-140	78.9900	85.4132
L_MHI-83	16.0227	248553.5460	5.0629	619.1499	##	CI-139	78.2700	85.4127
L_MHI-84	22.8644	308834.3333	5.5309	113.2108	##	CI-138	78.0700	85.4124
L_MH-32	60.3741	802135.4584	4.7876	6585.1333	##	MHI-79X	71.7300	85.4107
L_MH-33	64.2136	857936.6266	5.0928	1844.3077	##	CI-132	78.9000	85.4167
L_CI-152	7.7376	30428.6254	4.3161	347.5722	##	CI-136	80.2300	85.4190
L_CI-153	11.3014	55647.7809	3.5611	138.3231	##	MHI-72X	73.3700	86.7213
L_CI-154	7.7551	162657.1450	4.3202	312.9832	##	JCT-72	74.0600	86.7216
L_CI-155	14.3937	272995.0552	4.5363	665.1347	##	MH-21	81.2500	89.6599
L_CI-157	7.1264	76364.7922	3.9795	372.3604	##	DI-15	81.2700	89.8868
L_CI-156	15.6032	165532.8486	4.9189	138.3231	##	MHI-69	79.9600	86.7263
L_MH-34	27.7082	438714.2437	5.5988	421.9677	##	CI-110	81.3400	86.7260
L_CI-159	10.6632	102857.0051	5.9590	369.6643	##	CI-112A	81.8600	86.9413
L_CI-158	20.8954	184331.5026	6.5963	115.2692	##	MH-18A	76.8200	89.1391
L_CI-160	9.2807	91195.3670	5.1811	144.4982	##	CI-100B	82.0100	89.1840
L_MHI-85	13.8770	192419.3695	4.3857	531.9963	##	CI-100A	81.9300	89.1832
L_MHI-86	20.7492	293294.9240	4.4436	164.6703	##	MH-18	71.7700	89.1828
L_CI-161	5.0558	29136.9537	2.7482	95.5088	##	JCT-18A	71.8200	89.2141
L_MH-40	24.5557	322527.3934	3.4493	3800.8053	##	MH-19	81.6100	89.3850
L_MH-35	71.4499	957510.5268	5.6502	922.1538	##	JCT-19	72.0600	89.3814
L_MH-36	135.0171	1815244.890	5.6568	10428.3415	##	MH-17	76.0500	89.2588
L_CI-100B	6.2349	33393.7689	3.4635	92.6271	##	CI-97	83.7600	89.4852
L_CI-100A	6.2311	33385.4325	3.4617	72.2491	##	MH-15	80.6100	89.4837
L_JCT-18A	605.5535	15548592.31	-9.1707	4847.8942	##	MHI-60	82.4500	89.4840
L_CI-102A	6.7499	29272.8919	3.7498	175.9522	##	CI-96B	84.2800	90.0227
L_JCT102A	610.2767	14466551.70	-7.4511	4847.8315	##	CI-82	85.2600	91.8503
L_CI-118	9.6975	22331.7317	5.3380	135.2355	##	CI-81A	85.0800	91.8401
L_CI-120	3.2089	8887.3238	1.7769	277.8812	##	CI-82A	85.7100	91.8245
L_CI-119	6.8096	22993.9975	2.1310	256.8857	##	MHI-50A	85.6600	91.8239
L_JCT-72	203.5292	2547263.808	6.1190	1982.8366	##	CI-83	85.6300	91.2057
L_CI-126	-5.8606	4195.0780	-3.2664	92.6271	##	MH-12	80.7800	91.2016
L_MH-24	54.9911	833450.2240	7.7157	259.3558	##	MHI-53	80.5300	91.7853
L_CI-137	9.4694	25743.1237	5.1965	198.0754	##	CI-85	84.5900	91.9169
L_CI-144	8.5981	41637.4305	2.7052	161.3769	##	CI-86	83.9200	92.0131
L_CI-146	8.9347	46816.3682	2.8175	520.3582	##	CI-87	80.6500	92.0474
L_CI-155A	8.1311	9136.9477	4.5310	198.2219	##	CI-89	81.5300	91.2018
L_CI-155B	-11.6207	11878.6368	-6.4208	46.3135	##	CI-90	82.1300	91.2036
L_MH-34A	27.9438	450581.2173	5.6495	756.3416	##	JCT-54	77.9600	91.2012
L_CI-75	3.3948	21998.2526	1.8944	185.2136	##	MHI-54X	77.8800	91.2011
L_CI-78A	-3.2464	16816.6492	-1.7975	62.1977	##	CI-80	84.0100	91.8345
L_JCT-78A	68.4214	819023.6015	4.2835	3334.5741	##	CI-77B	84.8200	91.8388

L_CI-81A	7.0448	16547.7215	3.9093	92.6271	##	CI-78A	84.3500	91.8357
L_CI-88	8.6482	22289.3152	4.7672	175.9914	##	JCT-78A	81.4600	91.8357
L_CI-90	8.3775	18934.7506	4.6216	185.2541	##	CI-73A	85.8100	91.8406
L_CI-89	8.4211	40211.9268	2.6324	181.1374	##	CI-69	87.2400	91.9741
Link687	9.5569	24551.2243	5.3352	92.6271	##	MHI-43	85.9500	91.9363
Link688	6.3428	41913.0485	3.5460	364.2983	##	CI-71	87.0400	92.2471
L-JCT-54	219.2705	2581383.520	6.5840	1878.4768	##	MHI-42	86.0000	91.9466
Link691	64.4003	522742.1832	5.0817	4250.0019	##	MHI-41	86.9600	92.0241
L-JCT-19	609.9535	14512677.75	-6.8809	23642.6714	##	CI-68	87.6100	91.9653
L-MHI-79	160.5019	7484478.543	8.1275	1919.4787	##	CI-67	87.0200	92.0269
Link700	4.2355	12953.0372	2.3643	370.5057	##	CI-107B	82.0800	89.1382
Link714	9.1525	30766.7750	5.0980	92.6271	##	CI-102A	81.7900	89.4243
Link715	9.1343	23026.8307	5.0910	183.4016	##	CI-137	75.9700	85.4114
L-MHI-72X	203.3979	2519742.995	0.8978	4470.1399	##	G-4	69.5700	84.7395
L-C-2	-217.5727	-2578110.69	1.6168	11760.3493	##	JCT102A	72.1100	89.4193
L-F-1	300.1683	7494497.517	2.3970	391745.5817	##	JCT137	71.8000	85.4111
L-B-3	598.0996	28745426.35	2.7646	35912.3068	##	SYS-D-OUT	70.9600	89.1400
L-B-4	574.6549	26830654.38	1.9394	92119.9530	##	MHI-51	85.0800	91.2056
L-B-5	574.7173	26837311.96	1.6626	28359.5479	##	CI-121	80.9500	86.7259
L-MH-D2	612.2353	14440492.03	6.3635	14526.7191	##	B-3	78.6400	91.8337
L-B-6	574.8398	26840997.26	5.1477	36730.4923	##	SYS-E-OUT	78.0000	86.7200
L-B-1	598.1199	28741436.51	4.1668	94132.9500	##	SYS-C-OUT	82.3100	91.2000
L-B-2	598.0992	28744607.77	4.7257	61663.5115	##	SYS-F-OUT	73.6900	85.4100
L-MHI-54X	219.0620	2580135.882	0.7914	4252.6837	##	SYS-B-OUT	79.2600	91.6400
L-C-1	211.2829	2577148.322	1.6467	72335.4156	##	B-4	83.2000	91.9079
L-MH-18	606.8462	15579516.05	-7.5503	9695.5868	##	B-5	83.3900	91.9150
L-E-2	-202.4917	-2520313.73	-1.2831	22075.3152	##	MH-D2	72.2600	89.5377
L-E-1	199.2827	2518398.665	3.6958	88790.8572	##	B-6	83.8600	92.6446
L-D-1	606.0461	15575009.92	-7.3348	15399.5520	##	B-1	81.2100	91.7833
L-MHI-79X	323.0863	7508148.802	1.3734	5469.5160	##	B-2	82.1800	91.8153
L-G-4	134.9762	1824976.033	4.7523	14138.5943	##	C-2	77.8800	91.2011
L-G-2	295.9007	4740921.339	8.8761	8000.9195	##	C-1	82.4400	91.2011
L-G-1	295.8656	4739489.434	8.8779	3478.6607	##	D-1	71.6600	89.1417
L-G-3	295.9472	4605302.882	8.8693	18019.4622	##	E-1	78.3200	86.7213
L-F-OFF	232.6986	6541548.195	18.2916	922.1538	##	E-2	73.9600	86.7213
L_MH-B1	53.5013	825167.7082	7.4407	855.6517	##	F-1	71.7300	85.4107
L_MH-B2	50.2569	824299.9635	7.0007	1097.9641	##	G-2	68.5100	84.3392
Link741	50.2494	825869.9323	5.1607	3746.8695	##	G-1	68.2100	84.2043
FREE # 1	606.0461	15575127.68	0.0000	0.0000	##	SYS-G-OUT	68.1100	84.1500
FREE # 2	199.2827	2518392.599	0.0000	0.0000	##	G-3	68.7700	84.7179
FREE # 3	211.2829	2577178.021	0.0000	0.0000	##	F-OFFSITE	75.2200	89.7828
FREE # 4	300.1683	7494527.638	0.0000	0.0000	##	MHI-50S	80.2600	92.1445
FREE # 5	598.1199	28741371.45	0.0000	0.0000	##	MH-B2	80.7600	92.7011
FREE # 6	295.8656	4739535.595	0.0000	0.0000	##	MH-B1	80.9200	93.1964

Table E15a - SPREADSHEET REACH LIST
Peak flow and Total Flow listed by Reach or those conduits or diversions having the same upstream and downstream nodes.

Upstream Node	Downstream Node	Maximum Flow (cfs)	Total Flow (ft^3)
CI-67	MHI-41	3.5362	23857.1489
MHI-41	MHI-42	12.6733	77116.8670
CI-68	MHI-42	3.4163	20753.0480
MHI-42	MHI-44	25.0886	150332.999
CI-71	CI-72	2.0914	10155.0926
CI-72	MHI-44	4.2000	22875.1208
CI-69	CI-70	6.8780	38599.3368
CI-70	MHI-43	22.4025	212340.321
MHI-43	MHI-44	13.4628	287994.791
MHI-44	MHI-45	46.1590	502188.784
CI-73	MHI-45	7.4988	38390.0871
CI-74	MHI-45	8.9096	27053.5959
MHI-45	MHI-47	56.0342	636888.159
CI-77A	CI-77B	7.0917	25796.3866

CI-77B	CI-78	7.7541	52318.9400
CI-78	MHI-47	-10.6116	65786.9066
CI-73A	CI-75	2.6772	16752.8219
CI-76	MHI-46	5.1208	32055.9776
MHI-46	MHI-47	-12.0712	86444.1684
MHI-47	JCT-78A	66.4533	803177.318
CI-79	CI-80	8.2029	16813.3279
CI-80	MHI-48	8.2599	20340.4590
CI-81	MHI-49	8.2584	30694.9673
MHI-48	MHI-49	-14.1275	66876.8531
MHI-49	MHI-50	-24.8883	145495.132
CI-82	MHI-50	3.4653	24713.7982
MHI-50	B-3	61.9583	1103333.33
MHI-51	MHI-52	11.1698	87920.9520
CI-84	MHI-52	11.7357	40747.5856
MHI-52	MHI-54	24.0852	192555.911
CI-85	CI-86	7.5936	18042.0916
CI-86	CI-87	10.3728	26706.1680
CI-87	MHI-53	160.7553	1741821.54
MHI-53	MHI-54	149.0286	1772615.07
CI-91	CI-92	10.6088	21909.5213
CI-92	MH-13	21.3067	48982.2661
CI-93	CI-94	37.3029	219918.240
CI-94	MH-13	24.6379	229540.257
MH-13	MHI-56	28.3407	291620.275
CI-96A	MHI-56	10.4296	37545.3144
CI-95A	MHI-55	8.9188	16755.7761
MHI-55	MHI-56	10.3414	87141.3407
MHI-56	MH-12	53.1966	461983.084
MHI-54	JCT-54	213.1015	2520557.27
CI-95B	MHI-57	18.2928	267148.388
MHI-57	MHI-58	15.9194	345764.245
MHI-58	MH-14	22.0691	446895.084
CI-96B	MH-14	3.3350	22317.6818
MH-14	MH-15	23.8106	469133.373
CI-98	MH-15	3.5654	24304.9795
CI-97	MHI-59	9.0649	25693.7614
MHI-59	MHI-60	9.6329	69390.3682
MHI-60	MH-15	15.2286	111064.586
MH-15	MH-16	37.0561	604471.744
CI-99	CI-100	-3.1883	12041.5030
CI-100	MH-16	6.8535	38346.0387
MH-16	MH-17	43.4518	642778.216
MH-17	JCT-18A	43.4332	642924.035
CI-101	CI-102	9.9173	21764.5808
CI-102	MH-19	10.2626	50853.5104
MH-19	JCT-19	10.4859	50834.4698
CI-106	MHI-66	9.2533	11333.2321
MHI-66	MHI-65	12.1394	49900.4742
CI-105	MHI-65	4.5195	17352.2155
CI-108	MHI-64	11.8682	14172.3695
MHI-64	MHI-63	33.7594	65317.9760
CI-107B	MHI-63	5.1698	14288.0287
CI-107A	MHI-61	11.4998	20041.2791
MHI-61	MHI-63	31.3013	87423.1440
MHI-63	MHI-65	67.0384	193960.593
MHI-65	MH-20	73.9605	291924.383
MHI-62	MH-20	11.3961	70765.7964
CI-104	MH-20	4.0086	14072.3703
MH-20	MH-18B	73.3496	376639.113
CI-103	MH-18B	3.4640	20845.5955
MH-18B	MH-18A	73.0583	397411.298
MH-18A	JCT-18A	73.0766	397383.599
CI-109	CI-110	1.8198	9540.5403

CI-110	CI-111	3.8610	21771.4843
CI-111	MHI-68	5.8805	33818.5842
CI-112A	CI-112B	3.3384	19606.8016
CI-112B	CI-113	34.0740	375218.688
CI-113	MHI-67	35.5348	383859.957
MHI-67	MHI-68	38.0782	420631.645
MHI-68	MHI-70	51.6703	501277.008
CI-114	MHI-70	8.6896	33107.8053
CI-115	CI-114	8.7394	18646.5848
CI-116	MHI-69	7.5529	30547.0996
CI-117	CI-116	7.5465	16383.5061
MHI-69	MHI-70	13.4490	82526.3073
MHI-70	MHI-72	75.9063	667926.243
CI-129	CI-128	9.4988	12294.5164
CI-128	MHI-76	9.5081	26786.2726
CI-127	MHI-75	50.8127	847017.175
MHI-75	MHI-76	42.2968	920739.219
MHI-76	MHI-74	50.8544	1016510.77
CI-125	MHI-74	10.3901	18102.8293
CI-124	MHI-73	9.1139	20797.4088
MHI-73	MHI-74	7.3100	51183.1619
MHI-74	MH-23	65.4560	1115149.26
MH-23	MHI-72	65.4455	1113011.55
CI-122	MHI-71	19.9125	335516.133
DI-15	MH-21	11.4938	241645.143
MH-21	MH-22	11.4902	241638.896
MH-22	MHI-71	11.4864	241245.998
MHI-71	MHI-72	44.2398	651097.300
MHI-72	JCT-72	198.0025	2503793.58
CI-130	CI-131	8.7404	24704.3796
CI-131	CI-132	16.4882	48592.2658
CI-132	MHI-78	16.5843	63742.6979
CI-133	CI-134	8.0226	19910.4017
CI-134	CI-135	12.0955	39608.8582
CI-136	CI-135	8.9607	24951.8995
CI-135	MHI-77	33.0886	350164.868
MHI-77	MHI-78	46.1453	427041.687
MHI-78	MHI-79	66.4796	559325.779
MHI-80	MHI-79	216.5183	6612829.38
CI-145	CI-144	8.2534	13936.5493
CI-147	CI-146	8.0633	23596.6613
MH-29	MH-30	8.5640	41561.8412
MH-30	MH-28	13.8180	88446.0358
CI-142	CI-143	8.1505	29021.6277
CI-143	MH-27	11.4593	59054.3975
MH-27	MH-28	11.4158	59040.1663
CI-141	MH-28	9.1278	20344.2751
MH-28	MH-26	28.1011	167770.146
CI-139	CI-138	4.8498	24987.0977
CI-138	MH-26	7.3759	45003.6051
MH-26	MH-25	35.4531	212527.854
MH-25	MHI-79	35.4283	211832.871
JCT137	MHI-79X	323.4777	7508735.82
CI-148	CI-149	9.9723	155294.689
CI-149	MHI-81	22.0592	273392.216
MHI-81	MHI-82	26.8170	382593.463
MHI-82	MH-31	35.7006	472866.881
MH-31	MH-32	35.6864	472342.643
CI-150	MH-32	4.4935	20504.0825
CI-151	MHI-83	12.3106	198693.720
MHI-83	MHI-84	16.0227	248553.546
MHI-84	MH-32	22.8644	308834.333
MH-32	MH-33	60.3741	802135.458
MH-33	MH-36	64.2136	857936.627

CI-152	CI-153	7.7376	30428.6254
CI-153	MH-33	11.3014	55647.7809
CI-154	CI-155	7.7551	162657.145
CI-155	MH-34	14.3937	272995.055
CI-157	CI-156	7.1264	76364.7922
CI-156	MH-34	15.6032	165532.849
MH-34	MH-34A	27.7082	438714.244
CI-159	CI-158	10.6632	102857.005
CI-158	MH-35	20.8954	184331.503
CI-160	MHI-85	9.2807	91195.3670
MHI-85	MHI-86	13.8770	192419.370
MHI-86	MH-40	20.7492	293294.924
CI-161	MH-40	5.0558	29136.9537
MH-40	MH-35	24.5557	322527.393
MH-35	MH-36	71.4499	957510.527
MH-36	G-4	135.0171	1815244.89
CI-100B	CI-100A	6.2349	33393.7689
CI-100A	MH-18	6.2311	33385.4325
JCT-18A	MH-18	605.5535	15548592.3
CI-102A	JCT102A	6.7499	29272.8919
JCT102A	JCT-19	610.2767	14466551.7
CI-118	JCT-72	9.6975	22331.7317
CI-120	CI-119	3.2089	8887.3238
CI-119	JCT-72	6.8096	22993.9975
JCT-72	MHI-72X	203.5292	2547263.81
CI-126	MH-24	-5.8606	4195.0780
MH-24	CI-127	54.9911	833450.224
CI-137	JCT137	9.4694	25743.1237
CI-144	MH-29	8.5981	41637.4305
CI-146	MH-30	8.9347	46816.3682
CI-155A	CI-155B	8.1311	9136.9477
CI-155B	MH-34A	-11.6207	11878.6368
MH-34A	MH-35	27.9438	450581.217
CI-75	CI-76	3.3948	21998.2526
CI-78A	JCT-78A	-3.2464	16816.6492
JCT-78A	B-3	68.4214	819023.601
CI-81A	CI-81	7.0448	16547.7215
CI-88	JCT-54	8.6482	22289.3152
CI-90	CI-89	8.3775	18934.7506
CI-89	JCT-54	8.4211	40211.9268
CI-82A	MHI-50A	9.5569	24551.2243
MHI-50A	MHI-50	6.3428	41913.0485
JCT-54	MHI-54X	219.2705	2581383.52
MH-12	MHI-54	64.4003	522742.183
JCT-19	JCT-18A	609.9535	14512677.7
MHI-79	JCT137	321.0039	7484478.54
CI-140	CI-139	4.2355	12953.0372
CI-83	MHI-51	9.1525	30766.7750
CI-121	CI-122	9.1343	23026.8307
MHI-72X	E-2	203.3979	2519742.99
C-1	C-2	217.5727	2578110.69
F-1	SYS-F-OUT	300.1683	7494497.52
B-3	B-2	598.0996	28745426.3
B-4	B-3	574.6549	26830654.4
B-5	B-4	574.7173	26837312.0
MH-D2	JCT102A	612.2353	14440492.0
B-6	B-5	574.8398	26840997.3
B-1	SYS-B-OUT	598.1199	28741436.5
B-2	B-1	598.0992	28744607.8
MHI-54X	C-2	219.0620	2580135.88
C-1	SYS-C-OUT	211.2829	2577148.32
MH-18	D-1	606.8462	15579516.1
E-1	E-2	202.4917	2520313.73
E-1	SYS-E-OUT	199.2827	2518398.66

D-1	SYS-D-OUT	606.0461	15575009.9	
MHI-79X	F-1	323.0863	7508148.80	
G-4	G-3	134.9762	1824976.03	
G-2	G-1	295.9007	4740921.34	
G-1	SYS-G-OUT	295.8656	4739489.43	
G-3	G-2	295.9472	4605302.88	
F-OFFSITE	MHI-80	232.6986	6541548.19	
MH-B1	MH-B2	53.5013	825167.708	
MH-B2	MHI-50S	50.2569	824299.963	
MHI-50S	MHI-50	50.2494	825869.932	

Table E18 - Junction Continuity Error. Division by Volume added 11/96

Continuity Error = Net Flow + Beginning Volume - Ending Volume / (Total Flow + (Beginning Volume + Ending Volume)/2)

Net Flow = Node Inflow - Node Outflow
Total Flow = absolute (Inflow + Outflow)
Intermediate column is a judgement on the node continuity error.

Excellent < 1 percent Great 1 to 2 percent Good 2 to 5 percent
Fair 5 to 10 percent Poor 10 to 25 percent Bad 25 to 50 percent
Terrible > 50 percent

Junction Name	<-----Continuity Error -------> Volume	% of Node	% of Inflow	Remaining Volume	Beginning Volume	Net Flow Thru Node	Total Flow Thru Node	Failed to Converge
CI-84	-14434.2807	-21.5245	0.0236	1.1767	0.0000	-14433.1039	67059.0881	0
MH-20	128.1372	0.0170	0.0002	0.0022	0.0000	128.1394	753401.6625	0
CI-113	19.1258	0.0025	0.0000	36.1185	0.0000	55.2443	767772.6450	0
CI-120	114.2787	0.6318	0.0002	132.7601	0.0000	247.0388	18022.3238	0
MHI-79	-600.4558	-0.0040	0.0010	1498.1400	0.0000	897.6843	14969838.07	0
MH-28	53.9514	0.0161	0.0001	10.5900	0.0000	64.5414	335600.6233	0
MHI-75	879.7298	0.0477	0.0014	81.0454	0.0000	960.7752	1842438.394	0
MHI-74	-384.1939	-0.0172	0.0006	1131.6901	0.0000	747.4962	2231051.012	0
CI-135	227.8779	0.0325	0.0004	11.6229	0.0000	239.5008	700570.1986	0
CI-158	-494.3410	-0.1343	0.0008	0.0017	0.0000	-494.3394	368170.5077	0
MHI-84	-3438.4435	-0.5598	0.0056	9.4254	0.0000	-3429.0182	614240.8792	0
MHI-85	-3743.7740	-0.9823	0.0061	0.0014	0.0000	-3743.7726	381111.7365	0
MH-40	-98.5423	-0.0153	0.0002	0.0037	0.0000	-98.5387	644959.2711	0
CI-161	-949.7297	-1.6567	0.0016	0.0004	0.0000	-949.7294	57324.9537	0
CI-159	-19293.9764	-10.3501	0.0315	0.0013	0.0000	-19293.9751	186413.0051	0
MH-34	-200.8708	-0.0229	0.0003	16.8414	0.0000	-184.0293	877242.1474	0
CI-156	-798.0568	-0.2416	0.0013	1.7492	0.0000	-796.3075	330273.1432	0
CI-160	-22647.6614	-14.1787	0.0370	0.0007	0.0000	-22647.6607	159730.3670	0
CI-157	-18899.9371	-14.1224	0.0309	0.0013	0.0000	-18899.9358	133829.7922	0
MH-34A	2.0558	0.0002	0.0000	13.9082	0.0000	15.9640	901174.0979	0
CI-155	-290.3976	-0.0532	0.0005	21.3978	0.0000	-268.9998	545722.2051	0
MH-33	-210.4104	-0.0123	0.0003	61.8770	0.0000	-148.5334	1715719.866	0
CI-153	-830.7514	-0.7520	0.0014	0.0016	0.0000	-830.7497	110466.4063	0
CI-154	-16925.8358	-5.4882	0.0277	9.0133	0.0000	-16916.8225	308398.6675	0
MHI-83	747.8131	0.1502	0.0012	10.7549	0.0000	758.5680	497863.2656	0
MH-32	-516.0755	-0.0322	0.0008	62.5597	0.0000	-453.5158	1603816.517	0
CI-150	-497.0549	-1.2270	0.0008	0.0005	0.0000	-497.0545	40511.0825	0
MH-31	515.4327	0.0545	0.0008	13.6777	0.0000	529.1104	945209.5241	0
CI-146	704.7691	0.7470	0.0012	0.0020	0.0000	704.7711	94344.0296	0
CI-145	-10054.5611	-56.4370	0.0164	0.0009	0.0000	-10054.5602	17815.5493	0
MH-29	77.3222	0.0929	0.0001	0.0018	0.0000	77.3240	83199.2718	0
MH-27	14.3653	0.0122	0.0000	0.0021	0.0000	14.3674	118094.5638	0
CI-143	16.9715	0.0144	0.0000	0.0015	0.0000	16.9731	118127.0252	0
MH-26	45.2603	0.0106	0.0001	205.1208	0.0000	250.3812	425301.6055	0
CI-142	-9865.5245	-20.4791	0.0161	0.0012	0.0000	-9865.5233	48173.6277	0
MHI-80	4958.7462	0.0375	0.0081	344.0138	0.0000	5302.7600	13230958.57	0
MH-25	35.9501	0.0085	0.0001	661.1389	0.0000	697.0890	424360.7253	0
MHI-77	2037.4453	0.2380	0.0033	26.0657	0.0000	2063.5110	856145.5555	0
MHI-78	1065.4921	0.0952	0.0017	45.2173	0.0000	1110.7093	1119761.164	0
CI-131	-5597.1698	-6.1115	0.0091	0.0020	0.0000	-5597.1678	91584.6454	0
CI-134	-546.1976	-0.6943	0.0009	0.0020	0.0000	-546.1956	78671.2598	0
CI-133	-3835.6401	-10.6592	0.0063	0.0016	0.0000	-3835.6385	35984.4017	0
CI-130	-8169.2904	-19.8036	0.0134	10.3057	0.0000	-8158.9847	41246.3796	0
CI-129	-9437.3106	-62.3027	0.0154	0.0008	0.0000	-9437.3098	15147.5164	0

CI-128	-243.9763	-0.4575	0.0004	0.0012	0.0000	-243.9751	53327.7890	0
MHI-76	277.7976	0.0137	0.0005	254.0926	0.0000	531.8902	2033552.257	0
CI-127	-124.6919	-0.0074	0.0002	31.8652	0.0000	-92.8267	1693940.399	0
MH-24	8.5747	0.0005	0.0000	17.9071	0.0000	26.4818	1666928.155	0
CI-126	-729.8892	-9.5285	0.0012	0.0009	0.0000	-729.8883	7660.0780	0
CI-124	-8208.9475	-24.5928	0.0134	0.0006	0.0000	-8208.9469	33379.4088	0
MHI-73	-178.2884	-0.1745	0.0003	0.0014	0.0000	-178.2870	102193.5706	0
CI-125	-5263.7231	-17.0144	0.0086	0.0006	0.0000	-5263.7226	30936.8293	0
MH-22	364.1633	0.0754	0.0006	28.7133	0.0000	392.8766	482884.8930	0
MH-23	106.1832	0.0048	0.0002	2031.7651	0.0000	2137.9482	2228160.803	0
MHI-72	1458.5088	0.0291	0.0024	4385.4229	0.0000	5843.9317	5013426.668	0
MHI-71	2752.2909	0.2107	0.0045	920.9745	0.0000	3673.2654	1305862.430	0
CI-122	94.3982	0.0141	0.0002	225.6498	0.0000	320.0481	671342.6357	0
CI-119	25.7210	0.0555	0.0000	240.8022	0.0000	266.5233	46254.3212	0
CI-118	-12862.0767	-40.2521	0.0210	110.1198	0.0000	-12751.9568	31898.7317	0
CI-115	-11280.2672	-43.3713	0.0184	0.0008	0.0000	-11280.2663	26008.5848	0
CI-117	-9018.0801	-37.9780	0.0147	0.0008	0.0000	-9018.0793	23745.5061	0
CI-116	38.7040	0.0633	0.0001	0.0012	0.0000	38.7052	61132.6057	0
MHI-67	1424.3222	0.1690	0.0023	30.3830	0.0000	1454.7052	842714.6018	0
MHI-68	860.1434	0.0857	0.0014	131.3541	0.0000	991.4975	1003544.237	0
CI-111	-58.8095	-0.0870	0.0001	0.0020	0.0000	-58.8076	67578.0685	0
CI-114	73.7940	0.1113	0.0001	0.0012	0.0000	73.7953	66289.3901	0
MHI-70	-615.5179	-0.0460	0.0010	1805.0562	0.0000	1189.5383	1337037.363	0
CI-109	8.4791	0.0444	0.0000	0.0016	0.0000	8.4807	19089.5403	0
MHI-64	137.8090	0.1054	0.0002	0.0013	0.0000	137.8103	130781.3455	0
CI-108	-674.0384	-2.4358	0.0011	0.0006	0.0000	-674.0377	27672.3695	0
MHI-63	-501.7136	-0.1295	0.0008	0.0026	0.0000	-501.7110	387413.7413	0
CI-107A	-437.0932	-1.1026	0.0007	0.0006	0.0000	-437.0926	39643.2791	0
MHI-61	447.2455	0.2551	0.0007	0.0010	0.0000	447.2465	175288.4230	0
MHI-62	-491.7865	-0.3487	0.0008	0.0003	0.0000	-491.7861	141037.7964	0
MHI-65	768.2982	0.1314	0.0013	0.0027	0.0000	768.3009	584610.6655	0
CI-105	62.9499	0.1811	0.0001	0.0009	0.0000	62.9507	34767.2155	0
CI-106	-1348.9279	-6.3288	0.0022	0.0006	0.0000	-1348.9273	21314.2321	0
MHI-66	-154.6026	-0.1552	0.0003	0.0015	0.0000	-154.6011	99645.7063	0
CI-104	274.7430	0.9668	0.0004	0.0005	0.0000	274.7434	28418.3703	0
MH-18B	76.7897	0.0097	0.0001	0.0025	0.0000	76.7922	794896.0065	0
CI-103	62.0328	0.1486	0.0001	0.0005	0.0000	62.0332	41752.5955	0
CI-102	-368.9525	-0.3641	0.0006	0.0009	0.0000	-368.9516	101337.0912	0
CI-101	-6972.1512	-19.0748	0.0114	0.0010	0.0000	-6972.1502	36551.5808	0
MHI-59	-555.1090	-0.4016	0.0009	0.0012	0.0000	-555.1078	138230.1296	0
CI-98	-391.6294	-0.8122	0.0006	0.0005	0.0000	-391.6289	48217.9795	0
CI-99	-738.0655	-3.1615	0.0012	0.0003	0.0000	-738.0652	23345.5030	0
CI-100	-636.0320	-0.8363	0.0010	0.0010	0.0000	-636.0309	76055.5417	0
MH-16	32.8538	0.0026	0.0001	8.7816	0.0000	41.6353	1285595.999	0
CI-95B	-12171.7372	-2.3312	0.0199	1.8431	0.0000	-12169.8942	522118.3933	0
MHI-57	2056.8259	0.2965	0.0034	5.2053	0.0000	2062.0312	693588.6329	0
MHI-58	1586.2280	0.1772	0.0026	5.2618	0.0000	1591.4898	895380.8309	0
MH-14	72.7025	0.0077	0.0001	7.8811	0.0000	80.5836	938346.1385	0
CI-93	-6950.9065	-1.6056	0.0114	4.7802	0.0000	-6946.1263	432921.2554	0
CI-94	618.7711	0.1345	0.0010	181.9914	0.0000	800.7624	459889.4973	0
CI-95A	-4997.2997	-17.5284	0.0082	0.0005	0.0000	-4997.2992	28509.7761	0
MHI-55	-2386.3422	-1.3883	0.0039	0.0014	0.0000	-2386.3408	171892.1168	0
MHI-56	-4261.9690	-0.4627	0.0070	964.4786	0.0000	-3297.4905	920707.0138	0
CI-96A	-7549.5501	-11.1782	0.0123	1.0940	0.0000	-7548.4560	67537.8169	0
CI-92	-108.5802	-0.1109	0.0002	0.0011	0.0000	-108.5791	97873.7874	0
MH-13	-13467.9236	-2.3613	0.0220	423.7401	0.0000	-13044.1835	570142.7975	0
CI-91	-5822.8134	-15.3262	0.0095	0.0008	0.0000	-5822.8126	37992.5213	0
MHI-54	-1657.8619	-0.0329	0.0027	3166.3390	0.0000	1508.4770	5042760.434	0
CI-88	-9538.8270	-27.1637	0.0156	57.5928	0.0000	-9481.2343	35087.3152	0
MHI-52	-484.2694	-0.1259	0.0008	3.4371	0.0000	-480.8323	384629.4484	0
CI-81	-5573.5624	-9.9849	0.0091	0.0005	0.0000	-5573.5619	55819.6888	0
MHI-50	652.0498	0.0295	0.0011	3331.5424	0.0000	3983.5922	2210656.288	0
MHI-49	-1805.3460	-0.6241	0.0030	61.2782	0.0000	-1744.0677	289245.9520	0
MHI-48	343.2892	0.2560	0.0006	0.0013	0.0000	343.2904	134098.3121	0

CI-79	-8106.4532	-31.7697	0.0132	0.0008	0.0000	-8106.4524	25516.3279	0
MHI-47	-1593.2785	-0.0992	0.0026	478.7655	0.0000	-1114.5130	1605238.552	0
MHI-46	-3303.9314	-1.9483	0.0054	0.0017	0.0000	-3303.9297	169584.1460	0
CI-76	-508.0024	-0.7987	0.0008	0.0010	0.0000	-508.0015	63603.2302	0
CI-75	-898.2805	-2.0843	0.0015	0.0013	0.0000	-898.2792	43098.0745	0
CI-78	-1281.0261	-0.9832	0.0021	0.0012	0.0000	-1281.0250	130291.8466	0
CI-77A	-7549.5556	-17.1427	0.0123	0.0011	0.0000	-7549.5545	44039.3866	0
CI-74	-10095.5427	-22.9394	0.0165	0.0006	0.0000	-10095.5422	44009.5959	0
MHI-45	966.3007	0.0758	0.0016	143.3041	0.0000	1109.6048	1274882.626	0
CI-73	-14014.5236	-22.3296	0.0229	0.0015	0.0000	-14014.5221	62762.0871	0
CI-70	-153564.057	-56.6957	0.2510	0.0017	0.0000	-153564.056	270856.6581	0
MHI-44	1051.4024	0.1046	0.0017	0.0045	0.0000	1051.4069	1005430.695	0
CI-72	-461.7483	-1.0196	0.0008	0.0016	0.0000	-461.7467	45288.2134	0
CI-112B	23.7827	0.0032	0.0000	29.7153	0.0000	53.4981	750492.0718	0
MHI-86	-4100.1477	-0.7039	0.0067	0.0012	0.0000	-4100.1465	582491.2936	0
CI-155A	-6525.6246	-55.5517	0.0107	0.0005	0.0000	-6525.6241	11746.9477	0
CI-155B	-576.3096	-2.4857	0.0009	0.0010	0.0000	-576.3086	23184.5845	0
MH-35	-76.4246	-0.0040	0.0001	12.9210	0.0000	-63.5036	1914950.640	0
MH-36	144.9211	0.0040	0.0002	58.9863	0.0000	203.9074	3630692.044	0
CI-151	-16353.6635	-4.2919	0.0267	3.9707	0.0000	-16349.6928	381029.2421	0
CI-152	-13901.1952	-29.6069	0.0227	0.0009	0.0000	-13901.1943	46952.6254	0
CI-149	-16825.3293	-3.1749	0.0275	10.7941	0.0000	-16814.5352	529950.4127	0
CI-148	-13188.6784	-4.4345	0.0216	8.7534	0.0000	-13179.9250	297409.2017	0
MHI-82	2682.0228	0.2828	0.0044	10.8323	0.0000	2692.8551	948421.3442	0
MHI-81	1720.3071	0.2243	0.0028	11.6991	0.0000	1732.0062	766951.1818	0
CI-147	-8812.8740	-22.9653	0.0144	0.0011	0.0000	-8812.8729	38374.6613	0
MH-30	-66.0764	-0.0374	0.0001	0.0026	0.0000	-66.0738	176824.2453	0
CI-144	-737.3365	-0.8933	0.0012	0.0008	0.0000	-737.3357	82537.9798	0
CI-141	526.1463	1.2766	0.0009	0.0008	0.0000	526.1472	41215.2751	0
CI-140	-1208.2415	-4.8921	0.0020	0.0013	0.0000	-1208.2402	24698.0372	0
CI-139	-289.5355	-0.5827	0.0005	0.0021	0.0000	-289.5334	49685.1348	0
CI-138	-420.3312	-0.4692	0.0007	0.0014	0.0000	-420.3298	89583.7028	0
MHI-79X	273.0488	0.0018	0.0004	1122.3871	0.0000	1395.4359	15016884.62	0
CI-132	56.5847	0.0444	0.0001	0.0012	0.0000	56.5859	127544.9637	0
CI-136	-10600.2027	-26.9740	0.0173	0.0011	0.0000	-10600.2016	39297.8995	0
MHI-72X	-778.8304	-0.0154	0.0013	1410.0950	0.0000	631.2646	5067006.802	0
JCT-72	50.5181	0.0010	0.0001	1924.5126	0.0000	1975.0307	5096383.115	0
MH-21	-4.8646	-0.0010	0.0000	11.6751	0.0000	6.8105	483284.0386	0
DI-15	685.5955	0.1417	0.0011	7.8792	0.0000	693.4748	483983.6856	0
MHI-69	405.7107	0.2452	0.0007	0.0013	0.0000	405.7120	165462.4069	0
CI-110	-44.8417	-0.1031	0.0001	0.0028	0.0000	-44.8390	43498.0245	0
CI-112A	-4.9918	-0.0127	0.0000	0.0010	0.0000	-4.9908	39208.8016	0
MH-18A	27.2837	0.0034	0.0000	0.0026	0.0000	27.2863	794794.8974	0
CI-100B	-740.1759	-1.1207	0.0012	0.0003	0.0000	-740.1757	66045.7689	0
CI-100A	7.7110	0.0115	0.0000	0.0008	0.0000	7.7117	66779.2013	0
MH-18	273.0705	0.0009	0.0004	2356.7714	0.0000	2629.8419	31161493.80	0
JCT-18A	130.2499	0.0004	0.0002	4384.4877	0.0000	4514.7376	31101577.69	0
MH-19	22.6953	0.0223	0.0000	0.0013	0.0000	22.6966	101687.9802	0
JCT-19	559.9194	0.0019	0.0009	4321.1710	0.0000	4881.0904	29030063.91	0
MH-17	-150.6527	-0.0117	0.0002	5.9363	0.0000	-144.7164	1285702.251	0
CI-97	-12193.1929	-31.1172	0.0199	0.0006	0.0000	-12193.1924	39184.7614	0
MH-15	21.9622	0.0018	0.0000	12.8460	0.0000	34.8082	1208974.683	0
MHI-60	-438.3056	-0.1977	0.0007	0.0012	0.0000	-438.3044	221692.9546	0
CI-96B	-150.4152	-0.3381	0.0002	0.0005	0.0000	-150.4147	44484.6818	0
CI-82	81.3087	0.1642	0.0001	0.0009	0.0000	81.3096	49508.7982	0
CI-81A	-9450.0854	-39.9755	0.0154	0.0006	0.0000	-9450.0849	23639.7215	0
CI-82A	-7579.7607	-18.2573	0.0124	0.0003	0.0000	-7579.7604	41516.2243	0
MHI-50A	-854.8715	-1.0303	0.0014	0.0016	0.0000	-854.8700	82974.7728	0
CI-83	-22030.7984	-55.7914	0.0360	0.0006	0.0000	-22030.7979	39487.7750	0
MH-12	-62854.2722	-6.3762	0.1027	2090.3329	0.0000	-60763.9393	984725.2673	0
MHI-53	2524.3427	0.0711	0.0041	1236.2147	0.0000	3760.5574	3548942.613	0
CI-85	-12805.9848	-55.0296	0.0209	0.0011	0.0000	-12805.9837	23271.0916	0
CI-86	56.0964	0.1049	0.0001	0.0018	0.0000	56.0981	53469.2596	0
CI-87	-9388.9223	-0.2702	0.0153	246.4904	0.0000	-9142.4319	3474477.925	0

CI-89	-312.9857	-0.3897	0.0005	139.8982	0.0000	-173.0875	80251.6774	0
CI-90	-5944.1996	-18.5740	0.0097	54.0006	0.0000	-5890.1990	31975.7506	0
JCT-54	8.9412	0.0002	0.0000	1653.1980	0.0000	1662.1392	5164442.031	0
MHI-54X	-50.1867	-0.0010	0.0001	1234.9057	0.0000	1184.7190	5161519.402	0
CI-80	-52.3554	-0.1289	0.0001	0.0012	0.0000	-52.3542	40627.7869	0
CI-77B	-423.5756	-0.4064	0.0007	0.0015	0.0000	-423.5741	104215.3266	0
CI-78A	-283.7366	-0.8508	0.0005	0.0005	0.0000	-283.7361	33349.6492	0
JCT-78A	7.9238	0.0005	0.0000	965.4124	0.0000	973.3362	1639017.569	0
CI-73A	-213.6018	-0.6415	0.0003	0.0005	0.0000	-213.6013	33294.8219	0
CI-69	-22533.0840	-41.2072	0.0368	0.0015	0.0000	-22533.0825	54682.3368	0
MHI-43	3310.6870	0.5713	0.0054	0.0014	0.0000	3310.6883	579508.1126	0
CI-71	5.5023	0.0271	0.0000	0.0014	0.0000	5.5037	20316.0926	0
MHI-42	-2.4414	-0.0008	0.0000	0.0033	0.0000	-2.4381	300663.9141	0
MHI-41	-15.7062	-0.0102	0.0000	0.0014	0.0000	-15.7047	154218.0159	0
CI-68	10.1064	0.0243	0.0000	0.0006	0.0000	10.1070	41516.0480	0
CI-67	-7.1571	-0.0150	0.0000	0.0002	0.0000	-7.1569	47707.1489	0
CI-107B	59.3719	0.2073	0.0001	0.0009	0.0000	59.3728	28634.0287	0
CI-102A	-1866.4039	-3.2930	0.0031	0.0008	0.0000	-1866.4031	56677.8919	0
CI-137	-10950.8631	-27.0251	0.0179	0.0009	0.0000	-10950.8623	40521.1237	0
G-4	-9862.4491	-0.2709	0.0161	143.2101	0.0000	-9719.2391	3640220.924	0
JCT102A	631.3509	0.0022	0.0010	2787.1262	0.0000	3418.4771	28936316.63	0
JCT137	24.9876	0.0002	0.0000	1497.7363	0.0000	1522.7239	15018957.48	0
SYS-D-OUT	-2789.3680	-0.0089	0.0046	2794.2496	57.3011	-52.4196	31219888.91	0
MHI-51	338.8352	0.1923	0.0006	0.0014	0.0000	338.8366	176197.7269	0
CI-121	-11295.5246	-32.5015	0.0185	0.0008	0.0000	-11295.5237	34753.8307	0
B-3	4786.7122	0.0083	0.0078	2824.1165	0.0000	7610.8287	57498437.66	0
SYS-E-OUT	-351.9045	-0.0067	0.0006	364.3540	0.0000	12.4495	5246792.365	0
SYS-C-OUT	-208.1225	-0.0038	0.0003	196.1339	0.0000	-11.9887	5542625.875	0
SYS-F-OUT	-3340.7979	-0.0223	0.0055	3328.5919	0.0000	-12.2060	15004355.66	0
SYS-B-OUT	-203.4334	-0.0004	0.0003	305.5575	0.0000	102.1240	57482807.95	0
B-4	6224.4022	0.0116	0.0102	562.9564	0.0000	6787.3587	53667966.35	0
B-5	3366.1459	0.0063	0.0055	386.7420	0.0000	3752.8878	53678309.22	0
MH-D2	442.8428	0.0015	0.0007	2084.3516	0.0000	2527.1944	28883444.10	0
B-6	-479.0315	-0.0009	0.0008	272.8010	0.0000	-206.2306	53681778.61	0
B-1	2753.7351	0.0048	0.0045	488.6653	0.0000	3242.4004	57486044.28	0
B-2	486.0385	0.0008	0.0008	301.4873	0.0000	787.5258	57490034.12	0
C-2	831.5127	0.0161	0.0014	1151.8936	0.0000	1983.4063	5158246.569	0
C-1	161.1705	0.0031	0.0003	845.3185	0.0000	1006.4890	5155259.009	0
D-1	330.2459	0.0011	0.0005	4335.2953	0.0000	4665.5413	31154525.98	0
E-1	63.3564	0.0013	0.0001	1926.4959	0.0000	1989.8523	5038712.395	0
E-2	982.3844	0.0195	0.0016	2127.8971	0.0000	3110.2814	5040056.725	0
F-1	10502.0119	0.0700	0.0172	3709.5281	0.0000	14211.5399	15002646.32	0
G-2	-136814.144	-1.4638	0.2236	702.4278	0.0000	-136111.716	9346224.221	0
G-1	1221.3273	0.0129	0.0020	267.2081	0.0000	1488.5353	9480410.772	0
SYS-G-OUT	-113.0188	-0.0012	0.0002	74.9410	0.0000	-38.0779	9536455.627	0
G-3	-102911.895	-1.1298	0.1682	612.2531	0.0000	-102299.642	9108715.756	0
F-OFFSITE	-6124.2837	-0.0468	0.0100	95.9042	0.0000	-6028.3795	13077075.92	0
MHI-50S	-3693.3045	-0.2237	0.0060	2129.5095	0.0000	-1563.7950	1650169.896	0
MH-B2	82.8474	0.0050	0.0001	806.7195	0.0000	889.5668	1649467.672	0
MH-B1	-335437.104	-25.5010	0.5482	352.8593	0.0000	-335084.245	1315209.203	0

The total continuity error was -1.30695E+06 cubic feet
The remaining total volume was 84280. cubic feet
Your mean node continuity error was Excellent
Your worst node continuity error was Excellent

Table E19 - Junction Inflow & Outflow Listing
Units are either ft^3 or m^3 depending on the units in your model.

Junction Name	Constant Inflow to Node	User Inflow to Node	Interface Inflow to Node	DWF Inlow to Node	Inflow through Outfall	RNF Layer Inflow to Node	Outflow from Node	Evaporation from Node	Inflow from 2D Layer
CI-84	0.0000	26311.5050	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
CI-113	0.0000	8694.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
CI-120	0.0000	9135.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
MHI-79	0.0000	101371.5050	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
MHI-75	0.0000	74682.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
MHI-74	0.0000	30105.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
CI-135	0.0000	285844.6450	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	

CI-158	0.0000	80982.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
MHI-84	0.0000	56853.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
MHI-85	0.0000	97497.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CI-161	0.0000	28188.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CI-159	0.0000	83556.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CI-156	0.0000	88375.5050	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CI-160	0.0000	68535.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CI-157	0.0000	57465.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CI-155	0.0000	110070.0100	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CI-153	0.0000	24390.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CI-154	0.0000	145741.5450	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
MHI-83	0.0000	50616.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CI-150	0.0000	20007.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CI-146	0.0000	23931.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CI-145	0.0000	3879.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CI-143	0.0000	30051.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CI-142	0.0000	19152.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
MHI-80	0.0000	76581.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
MHI-77	0.0000	78939.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
MHI-78	0.0000	69651.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CI-131	0.0000	18288.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CI-134	0.0000	19152.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CI-133	0.0000	16074.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CI-130	0.0000	16542.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CI-129	0.0000	2853.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CI-128	0.0000	14247.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
MHI-76	0.0000	69516.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CI-127	0.0000	13473.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
MH-24	0.0000	829283.2050	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CI-126	0.0000	3465.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CI-124	0.0000	12582.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
MHI-73	0.0000	30213.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CI-125	0.0000	12834.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
MHI-72	0.0000	77598.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
MHI-71	0.0000	78003.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CI-122	0.0000	312799.8450	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CI-119	0.0000	14373.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CI-118	0.0000	9567.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CI-115	0.0000	7362.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CI-117	0.0000	7362.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CI-116	0.0000	14202.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
MHI-67	0.0000	38223.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
MHI-68	0.0000	47817.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CI-111	0.0000	11988.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CI-114	0.0000	14535.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
MHI-70	0.0000	52200.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CI-109	0.0000	9549.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
MHI-64	0.0000	51291.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CI-108	0.0000	13500.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
MHI-63	0.0000	26424.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CI-107A	0.0000	19602.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
MHI-61	0.0000	67824.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
MHI-62	0.0000	70272.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
MHI-65	0.0000	31473.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CI-105	0.0000	17415.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CI-106	0.0000	9981.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
MHI-66	0.0000	38412.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CI-104	0.0000	14346.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CI-103	0.0000	20907.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CI-102	0.0000	28719.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CI-101	0.0000	14787.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
MHI-59	0.0000	43146.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CI-98	0.0000	23913.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CI-99	0.0000	11304.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

CI-100	0.0000	25668.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CI-95B	0.0000	254970.0100	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
MHI-57	0.0000	80676.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
MHI-58	0.0000	102721.5050	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CI-93	0.0000	213003.0300	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CI-94	0.0000	10431.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CI-95A	0.0000	11754.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
MHI-55	0.0000	67995.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
MHI-56	0.0000	42417.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CI-96A	0.0000	29992.5050	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CI-92	0.0000	26982.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CI-91	0.0000	16083.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
MHI-54	0.0000	34290.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CI-88	0.0000	12798.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
MHI-52	0.0000	63405.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CI-81	0.0000	8577.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
MHI-50	0.0000	69331.0505	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
MHI-49	0.0000	46179.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
MHI-48	0.0000	46881.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CI-79	0.0000	8703.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
MHI-47	0.0000	12942.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
MHI-46	0.0000	51084.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CI-76	0.0000	9549.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CI-75	0.0000	4347.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CI-78	0.0000	12186.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CI-77A	0.0000	18243.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CI-74	0.0000	16956.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
MHI-45	0.0000	70362.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CI-73	0.0000	24372.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CI-70	0.0000	19917.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
MHI-44	0.0000	42039.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CI-72	0.0000	12258.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CI-112B	0.0000	355666.6650	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
MHI-86	0.0000	96777.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CI-155A	0.0000	2610.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CI-155B	0.0000	2169.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CI-151	0.0000	182335.5450	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CI-152	0.0000	16524.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CI-149	0.0000	101263.5150	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CI-148	0.0000	142114.5250	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
MHI-82	0.0000	92961.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
MHI-81	0.0000	110965.5050	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CI-147	0.0000	14778.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CI-144	0.0000	26964.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CI-141	0.0000	20871.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CI-140	0.0000	11745.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CI-139	0.0000	11745.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CI-138	0.0000	19593.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CI-132	0.0000	15210.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CI-136	0.0000	14346.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
DI-15	0.0000	242338.5850	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
MHI-69	0.0000	52389.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CI-110	0.0000	12186.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CI-112A	0.0000	19602.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CI-100B	0.0000	32652.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CI-97	0.0000	13491.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
MHI-60	0.0000	41238.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CI-96B	0.0000	22167.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CI-82	0.0000	24795.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CI-81A	0.0000	7092.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CI-82A	0.0000	16965.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
MHI-50A	0.0000	16510.5000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CI-83	0.0000	8721.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
MHI-53	0.0000	34506.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

CI-85	0.0000	5229.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CI-86	0.0000	8721.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CI-87	0.0000	1.7060E+06	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CI-89	0.0000	21105.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CI-90	0.0000	13041.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CI-80	0.0000	3474.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CI-77B	0.0000	26100.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CI-78A	0.0000	16533.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CI-73A	0.0000	16542.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CI-69	0.0000	16083.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
MHI-43	0.0000	79173.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CI-71	0.0000	10161.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
MHI-42	0.0000	52461.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
MHI-41	0.0000	53244.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CI-68	0.0000	20763.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CI-67	0.0000	23850.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CI-107B	0.0000	14346.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CI-102A	0.0000	27405.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CI-137	0.0000	14778.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
SYS-D-OUT	0.0000	0.0000	0.0000	0.0000	69751.3140	0.0000	15.6449E+06	0.0000
MHI-51	0.0000	57510.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CI-121	0.0000	11727.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
SYS-E-OUT	0.0000	0.0000	0.0000	0.0000	210001.1004	0.0000	2.7284E+06	0.0000
SYS-C-OUT	0.0000	0.0000	0.0000	0.0000	388299.5326	0.0000	2.9655E+06	0.0000
SYS-F-OUT	0.0000	0.0000	0.0000	0.0000	15330.5044	0.0000	7.5099E+06	0.0000
SYS-B-OUT	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	28.7414E+06	0.0000
MH-D2	0.0000	14.4429E+06	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
B-6	0.0000	26.8408E+06	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
SYS-G-OUT	0.0000	0.0000	0.0000	0.0000	57430.5988	0.0000	4.7970E+06	0.0000
G-3	0.0000	2.6784E+06	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
F-OFFSITE	0.0000	6.5355E+06	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
MH-B1	0.0000	490041.5395	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Table E20 - Junction Flooding and Volume Listing. The maximum volume is the total volume in the node including the volume in the flooded storage area. This is the max volume at any time. The volume in the flooded storage area is the total volume above the ground elevation, where the flooded pond storage area starts.
The fourth column is instantaneous, the fifth is the sum of the flooded volume over the entire simulation
Units are either ft^3 or m^3 depending on the units.

Junction Name	Surcharged Time (min)	Flooded Time(min)	Out of 1D-System (Flooded Volume)	Maximum Volume	Passed to 2D cell OR Volume Stored in allowed Flood Pond of 1D-System
CI-84	992.7333	791.7750	0.0000	6921.4389	10241.3419
MH-20	1128.5667	1001.4250	0.0000	129.6421	55.7020
CI-113	972.0583	223.3417	0.0000	990.5623	1000.0185
CI-120	1074.2083	857.7167	0.0000	17533.7343	20869.5298
MHI-79	965.9083	819.7917	0.0000	20452.1070	32961.1448
MH-28	976.0667	807.5667	0.0000	116.8964	1105.0348
MHI-75	977.3167	940.9500	0.0000	101873.7396	141810.7423
MHI-74	987.1333	843.1417	0.0000	26480.4810	36594.3840
CI-135	956.8167	756.7250	0.0000	2730.3036	7464.5795
CI-158	944.9583	529.9500	0.0000	14428.7390	21274.4480
MHI-84	935.4000	747.8583	0.0000	70223.5118	88349.9517
MHI-85	920.7000	787.1917	0.0000	76187.7749	99466.0910
MH-40	951.0417	383.6667	0.0000	120.1239	21.5218
CI-161	990.2333	397.2667	0.0000	12020.7548	13155.9220
CI-159	937.6417	582.7667	0.0000	19447.0614	24404.7840
MH-34	966.7583	690.7083	0.0000	120.9604	1263.2363
CI-156	963.5833	752.2333	0.0000	21002.6400	34989.1156
CI-160	917.2167	565.8167	0.0000	20483.4174	25159.5377
CI-157	952.6750	709.8083	0.0000	40159.8328	46308.7033
MH-34A	977.6333	550.5500	0.0000	123.0288	383.0822
CI-155	1002.1500	775.4583	0.0000	23583.0842	36187.6866
MH-33	920.9167	487.2167	0.0000	126.6293	303.9562

CI-153	917.2250	524.7667	0.0000	14534.8367	20928.1873
CI-154	991.8833	748.4000	0.0000	70411.2284	80517.1484
MHI-83	902.1083	629.6083	0.0000	54399.4583	70779.1898
MH-32	895.3917	310.5500	0.0000	119.1727	17.8347
CI-150	891.6417	324.2167	0.0000	7664.5637	8456.8396
MH-31	919.0333	232.2333	0.0000	103.4380	7.7287
CI-146	972.8917	886.3167	0.0000	19214.5071	24248.1910
CI-145	952.1000	680.5250	0.0000	1982.3478	3797.8062
MH-29	959.7500	637.8917	0.0000	79.7171	59.6153
MH-27	962.0667	639.0750	0.0000	100.4330	23.8471
CI-143	955.3417	732.0250	0.0000	3445.9546	8478.3524
MH-26	991.5750	606.8250	0.0000	134.4814	21.6999
CI-142	941.9417	699.3333	0.0000	2322.6207	3956.9415
MHI-80	1043.0500	891.8167	0.0000	472178.6930	561719.4103
MH-25	1025.4750	0.0000	0.0000	138.4946	0.0000
MHI-77	959.7000	859.3833	0.0000	25251.5034	36167.5983
MHI-78	953.3167	847.8250	0.0000	25206.0602	36467.8420
CI-131	946.5000	713.6583	0.0000	3291.8124	5647.5430
CI-134	953.7667	747.0583	0.0000	3301.4490	6096.4090
CI-133	937.8833	21.0333	0.0000	856.3029	322.8851
CI-130	927.5167	43.8917	0.0000	1022.0107	704.3315
CI-129	982.8917	814.5500	0.0000	7718.8664	13458.0689
CI-128	986.3750	787.9250	0.0000	5843.5898	10057.1476
MHI-76	988.4167	914.2917	0.0000	59002.9366	85386.5655
CI-127	975.0667	836.2000	0.0000	19706.0782	27634.0008
MH-24	974.5250	869.5583	0.0000	92.1568	47.4739
CI-126	991.1500	889.7500	0.0000	20059.8467	25823.7482
CI-124	968.8583	743.1500	0.0000	4816.2534	8043.6564
MHI-73	972.4500	858.3333	0.0000	29790.4992	40668.4763
CI-125	985.2250	733.3750	0.0000	4811.4151	8063.3300
MH-22	1005.0250	808.8333	0.0000	97.2596	58.3855
MH-23	1026.7750	910.6833	0.0000	118.4205	147.6634
MHI-72	1041.6167	837.5167	0.0000	33665.0545	41250.1194
MHI-71	981.1417	831.0667	0.0000	29657.7652	38518.4733
CI-122	985.6250	652.5667	0.0000	2016.4973	3651.3443
CI-119	1083.2333	808.5417	0.0000	20682.3642	24297.8620
CI-118	1083.8917	534.4000	0.0000	1782.6989	5292.1164
CI-115	979.5250	671.1667	0.0000	2721.6727	4530.0741
CI-117	980.0750	663.8333	0.0000	2733.0234	4336.3209
CI-116	983.4750	673.6667	0.0000	2000.5339	3554.5304
MHI-67	973.4583	837.1083	0.0000	16095.2198	21574.8261
MHI-68	966.9250	815.8833	0.0000	16091.3602	18565.7318
CI-111	962.9833	226.9500	0.0000	971.0208	1033.9473
CI-114	983.1583	671.2083	0.0000	1988.4089	3530.8468
MHI-70	985.3500	851.8583	0.0000	29708.6282	34251.6171
CI-109	943.7250	0.0000	0.0000	58.2571	0.0000
MHI-64	1147.6917	1079.0000	0.0000	72437.8918	84342.3596
CI-108	1143.5000	1047.5417	0.0000	21617.6388	25613.4256
MHI-63	1141.8583	1080.9000	0.0000	108094.8886	122130.4244
CI-107A	1142.6333	1051.7250	0.0000	25294.5067	29968.4434
MHI-61	1146.6583	1082.7917	0.0000	83160.2942	96930.8552
MHI-62	1186.1000	1042.5833	0.0000	60209.3704	68344.3651
MHI-65	1125.7917	1067.1083	0.0000	108005.8749	122453.4061
CI-105	1139.0167	1027.5833	0.0000	14999.7128	17252.0196
CI-106	1114.5917	1021.4500	0.0000	18583.7352	22230.7270
MHI-66	1117.0583	1046.5667	0.0000	41016.2742	48053.0303
CI-104	1126.7417	1007.9417	0.0000	24039.7416	28079.1269
MH-18B	1096.2583	922.0167	0.0000	145.3567	115.5584
CI-103	1094.7667	931.4167	0.0000	9177.9935	10602.8007
CI-102	1068.1000	941.8417	0.0000	11408.4374	15999.1297
CI-101	1056.9500	936.7000	0.0000	11836.4262	15082.3897
MHI-59	1037.1417	904.1417	0.0000	11424.1892	19170.9763
CI-98	1042.6583	871.7167	0.0000	8578.8395	10603.6103
CI-99	1057.1167	913.2250	0.0000	12435.8800	15089.0482

CI-100	1058.9083	917.2417	0.0000	8740.5495	10053.5723
MH-16	1062.8500	843.7667	0.0000	140.6669	15.6348
CI-95B	1028.4667	450.3000	0.0000	57871.2501	69698.0019
MHI-57	1028.3667	960.6000	0.0000	85002.5552	106688.0825
MHI-58	1033.1083	965.2000	0.0000	52895.3452	64038.8723
MH-14	1028.9417	324.8417	0.0000	87.9880	10.9197
CI-93	1005.2000	908.5750	0.0000	28661.4771	40688.8816
CI-94	1012.8333	916.8583	0.0000	17072.0569	29970.6509
CI-95A	1011.5250	885.3333	0.0000	19195.2363	25441.7554
MHI-55	1014.3917	941.3750	0.0000	65373.9319	81277.2749
MHI-56	1023.6333	937.9917	0.0000	72790.6521	116052.9098
CI-96A	1020.9167	877.8000	0.0000	18020.5931	23390.2713
CI-92	1015.2083	923.2583	0.0000	19501.5768	29950.7370
MH-13	1016.5333	871.9500	0.0000	17823.8127	27318.6554
CI-91	1011.5333	893.8333	0.0000	18990.8349	24988.1608
MHI-54	1019.7500	903.3750	0.0000	42170.8316	92959.2140
CI-88	1156.2750	830.9583	0.0000	11418.2238	14031.1690
MHI-52	996.5333	915.3167	0.0000	42189.4120	52643.8474
CI-81	1065.3250	772.1833	0.0000	5749.0568	9941.5863
MHI-50	1044.3833	937.8167	0.0000	75910.4714	97153.4149
MHI-49	1151.5833	952.0417	0.0000	98114.4880	109401.6510
MHI-48	1124.9333	974.4917	0.0000	156385.5678	179053.2585
CI-79	1106.1917	832.1083	0.0000	8218.5394	10716.2068
MHI-47	1070.0917	936.8083	0.0000	75409.6943	86599.8209
MHI-46	1041.8583	955.4000	0.0000	103609.4651	115553.0711
CI-76	1036.6750	783.0167	0.0000	9054.7138	10369.1070
CI-75	1021.6500	829.1167	0.0000	12511.7800	14596.3660
CI-78	1061.0917	849.4000	0.0000	19771.7632	21386.6232
CI-77A	1021.8417	899.4500	0.0000	20053.7422	23930.3617
CI-74	987.1833	809.8083	0.0000	7037.1547	12025.9677
MHI-45	991.0167	904.9083	0.0000	31255.7895	46863.0222
CI-73	970.9833	858.4333	0.0000	7015.4553	11586.8674
CI-70	968.2167	552.9333	0.0000	1446.5575	34546.4739
MHI-44	977.0917	814.7167	0.0000	9829.9223	17835.6536
CI-72	974.7167	212.9500	0.0000	411.2111	1577.0091
CI-112B	965.8583	0.0000	0.0000	84.7524	0.0000
MHI-86	947.2917	765.1333	0.0000	68988.7756	82206.7916
CI-155A	968.7083	640.5167	0.0000	34304.0402	41606.8312
CI-155B	975.6667	574.2833	0.0000	34340.1397	40799.9078
MH-35	947.4917	488.1500	0.0000	147.6955	250.8589
MH-36	982.4417	298.1583	0.0000	167.8578	17.4390
CI-151	902.1583	540.9167	0.0000	33583.7068	40777.6632
CI-152	925.4000	516.3667	0.0000	17985.9996	21799.9982
CI-149	888.9250	432.9083	0.0000	16505.2386	25895.4593
CI-148	865.1833	420.2917	0.0000	32985.9251	39896.9427
MHI-82	916.4250	663.8750	0.0000	63215.0082	76805.7222
MHI-81	894.5000	463.3000	0.0000	30208.3397	47477.2903
CI-147	964.8083	838.5833	0.0000	13338.7408	17228.2038
MH-30	968.6667	773.5500	0.0000	94.4079	757.4902
CI-144	958.2000	718.2083	0.0000	4037.3844	9156.9800
CI-141	985.0833	820.8917	0.0000	10799.8397	15624.1743
CI-140	977.3500	822.6000	0.0000	14803.5312	18520.0718
CI-139	984.3583	739.6000	0.0000	7045.4556	8719.7137
CI-138	989.6417	633.6500	0.0000	2343.6874	3143.3796
MHI-79X	0.0000	0.0000	0.0000	171.9120	0.0000
CI-132	949.7167	729.2083	0.0000	2715.2750	5036.3305
CI-136	946.4333	766.6833	0.0000	2292.3491	4529.2454
MHI-72X	0.0000	0.0000	0.0000	167.7727	0.0000
JCT-72	1049.4583	835.9750	0.0000	159.1062	209.6910
MH-21	1004.2583	741.7083	0.0000	105.6792	55.7500
DI-15	1003.5417	891.8250	0.0000	38176.2724	66504.0763
MHI-69	985.6417	859.0833	0.0000	29725.2111	35213.2240
CI-110	953.9750	0.0000	0.0000	67.6809	0.0000
CI-112A	957.6583	0.0000	0.0000	63.8521	0.0000

MH-18A	1360.5000	771.3417	0.0000	154.8013	9.2332
CI-100B	1097.6333	886.9417	0.0000	6252.8837	8285.2717
CI-100A	1101.0917	883.3667	0.0000	91.1437	81.0086
MH-18	1085.6000	928.4667	0.0000	218.8092	133.0123
JCT-18A	1083.5333	929.0333	0.0000	218.5743	212.3643
MH-19	1070.9083	852.6333	0.0000	97.7009	14.7748
JCT-19	1073.1000	937.8917	0.0000	217.6597	245.2897
MH-17	1248.9750	871.7500	0.0000	165.9820	36.1534
CI-97	1034.5417	863.4917	0.0000	5597.0227	8322.4045
MH-15	1040.5750	851.1417	0.0000	111.5068	18.5706
MHI-60	1042.3333	923.8083	0.0000	16686.7782	20151.5551
CI-96B	1028.2083	339.6250	0.0000	5058.5601	5744.1649
CI-82	1044.4500	735.4917	0.0000	3976.9294	8348.5623
CI-81A	1059.3333	751.4500	0.0000	4466.2626	7186.0133
CI-82A	1016.2917	876.4083	0.0000	12417.2554	15390.5489
MHI-50A	1018.6083	944.8250	0.0000	56810.0831	66836.9994
CI-83	987.6750	348.0000	0.0000	1333.3565	3331.8161
MH-12	1086.5833	857.8417	0.0000	9286.6457	43184.7832
MHI-53	1073.5833	915.9417	0.0000	71412.2196	116205.1051
CI-85	1025.3417	846.1917	0.0000	20008.0684	28819.8249
CI-86	1032.3083	831.5500	0.0000	15350.6580	24391.0410
CI-87	1037.5750	792.5833	0.0000	26835.1849	38725.1548
CI-89	1157.2250	822.2417	0.0000	9788.8017	12209.6470
CI-90	1153.3333	840.4583	0.0000	12612.8665	15466.3874
JCT-54	1103.8667	895.4667	0.0000	166.3896	268.6673
MHI-54X	718.3167	668.3250	0.0000	5238.4001	5983.6388
CI-80	1117.8000	830.1583	0.0000	7714.0498	10978.9115
CI-77B	1039.6583	901.9417	0.0000	15107.8104	18904.3141
CI-78A	1137.2583	796.0917	0.0000	10337.9956	11841.3703
JCT-78A	1123.6417	862.9333	0.0000	130.3805	71.0519
CI-73A	1009.7917	841.6167	0.0000	9353.5827	11334.8488
CI-69	956.0083	786.8000	0.0000	2543.9282	17027.1218
MHI-43	970.4167	854.6500	0.0000	16083.2305	124475.2717
CI-71	966.8167	0.0000	0.0000	65.4402	0.0000
MHI-42	949.6750	45.9000	0.0000	260.5062	207.8197
MHI-41	923.8917	0.0000	0.0000	63.6357	0.0000
CI-68	943.9000	0.0000	0.0000	54.7292	0.0000
CI-67	921.1333	0.0000	0.0000	62.9164	0.0000
CI-107B	1138.4333	1043.1667	0.0000	15008.1087	17303.2344
CI-102A	1108.0083	947.4417	0.0000	24261.0603	29001.9577
CI-137	1055.4750	683.5667	0.0000	2290.8277	4438.9447
G-4	1080.9583	759.0833	0.0000	71018.3982	171919.8339
JCT102A	1071.3833	904.3833	0.0000	217.5082	65.7594
JCT137	1060.8083	814.2583	0.0000	171.0368	157.9192
SYS-D-OUT	1125.7000	0.0000	0.0000	37698.7468	33.5834
MHI-51	989.3583	878.2750	0.0000	23700.7498	35610.3163
CI-121	980.6583	666.6000	0.0000	2645.6527	5131.5992
B-3	0.0000	0.0000	0.0000	165.7926	0.0000
SYS-E-OUT	484.9833	0.0000	0.0000	1337.1947	4.1333
SYS-C-OUT	748.6583	0.0000	0.0000	5171.6791	9.1685
SYS-F-OUT	0.0000	0.0000	0.0000	147.2735	0.0000
SYS-B-OUT	789.8250	0.0000	0.0000	4629.9292	33.6320
B-4	488.1000	0.0000	0.0000	109.4236	0.0000
B-5	0.0000	0.0000	0.0000	107.1253	0.0000
MH-D2	1065.9667	908.4167	0.0000	17554.6891	21753.4054
B-6	0.0000	0.0000	0.0000	110.3869	0.0000
B-1	0.0000	0.0000	0.0000	132.8643	0.0000
B-2	0.0000	0.0000	0.0000	121.0775	0.0000
C-2	718.3167	668.3167	0.0000	5238.3359	7339.4306
C-1	0.0000	0.0000	0.0000	442077.5451	0.0000
D-1	1090.2667	903.1083	0.0000	10865.2277	14926.2829
E-1	0.0000	0.0000	0.0000	115496.1226	0.0000
E-2	0.0000	0.0000	0.0000	160.3587	0.0000
F-1	0.0000	0.0000	0.0000	171.9119	0.0000

G-2	1102.5250	657.5667	0.0000	18023.5487	146641.3768	
G-1	1116.3167	774.3417	0.0000	61435.6130	290004.6586	
SYS-G-OUT	1121.0083	0.0000	0.0000	57937.2973	6.0525	
G-3	1092.2167	661.8167	0.0000	25363.0181	122695.0738	
F-OFFSITE	1043.6833	906.7500	0.0000	1539262.028	1.8165E+06	
MHI-50S	1835.6917	677.4250	0.0000	4666.2346	35280.3952	
MH-B2	1835.6500	716.0083	0.0000	13871.9826	328100.6806	
MH-B1	1780.4583	583.4833	0.0000	7519.3160	119197.7523	

==================================
| Simulation Specific Information |
==================================

Number of Input Conduits.....	216	Number of Simulated Conduits.....	222
Number of Natural Channels.....	14	Number of Junctions.....	222
Number of Storage Junctions.....	31	Number of Weirs.....	0
Number of Orifices.....	0	Number of Pumps.....	0
Number of Free Outfalls.....	6	Number of Tide Gate Outfalls.....	0

===
| Average % Change in Junction or Conduit is defined as: |
| Conduit % Change ==> 100.0 (Q(n+1) - Q(n)) / Qfull |
| Junction % Change ==> 100.0 (Y(n+1) - Y(n)) / Yfull |
===

The Conduit with the largest average change was..L_MH-B1 with 10.150 percent
The Junction with the largest average change was.MH-B1 with 2.214 percent
The Conduit with the largest sinuosity was.....L_CI-70 with 2625.964

==
| Table E21. Continuity balance at the end of the simulation |
| Junction Inflow, Outflow or Street Flooding |
| Error = Inflow + Initial Volume - Outflow - Final Volume |
==

Inflow Junction	Inflow Volume,ft^3	Average Inflow, cfs
CI-84	26311.5025	0.1523
CI-113	8694.0000	0.0503
CI-120	9135.0000	0.0529
MHI-79	101371.5025	0.5866
MHI-75	74682.0000	0.4322
MHI-74	30105.0000	0.1742
CI-135	285844.5725	1.6542
CI-158	80982.0000	0.4686
MHI-84	56853.0000	0.3290
MHI-85	97497.0000	0.5642
CI-161	28188.0000	0.1631
CI-159	83556.0000	0.4835
CI-156	88375.5025	0.5114
CI-160	68535.0000	0.3966
CI-157	57465.0000	0.3326
CI-155	110070.0050	0.6370
CI-153	24390.0000	0.1411
CI-154	145741.5225	0.8434
MHI-83	50616.0000	0.2929
CI-150	20007.0000	0.1158
CI-146	23931.0000	0.1385
CI-145	3879.0000	0.0224
CI-143	30051.0000	0.1739
CI-142	19152.0000	0.1108
MHI-80	76581.0000	0.4432
MHI-77	78939.0000	0.4568
MHI-78	69651.0000	0.4031
CI-131	18288.0000	0.1058
CI-134	19152.0000	0.1108
CI-133	16074.0000	0.0930
CI-130	16542.0000	0.0957
CI-129	2853.0000	0.0165
CI-128	14247.0000	0.0824
MHI-76	69516.0000	0.4023
CI-127	13473.0000	0.0780
MH-24	829282.8525	4.7991
CI-126	3465.0000	0.0201
CI-124	12582.0000	0.0728
MHI-73	30213.0000	0.1748
CI-125	12834.0000	0.0743

MHI-72	77598.0000	0.4491
MHI-71	78003.0000	0.4514
CI-122	312799.6725	1.8102
CI-119	14373.0000	0.0832
CI-118	9567.0000	0.0554
CI-115	7362.0000	0.0426
CI-117	7362.0000	0.0426
CI-116	14202.0000	0.0822
MHI-67	38223.0000	0.2212
MHI-68	47817.0000	0.2767
CI-111	11988.0000	0.0694
CI-114	14535.0000	0.0841
MHI-70	52200.0000	0.3021
CI-109	9549.0000	0.0553
MHI-64	51291.0000	0.2968
CI-108	13500.0000	0.0781
MHI-63	26424.0000	0.1529
CI-107A	19602.0000	0.1134
MHI-61	67824.0000	0.3925
MHI-62	70272.0000	0.4067
MHI-65	31473.0000	0.1821
CI-105	17415.0000	0.1008
CI-106	9981.0000	0.0578
MHI-66	38412.0000	0.2223
CI-104	14346.0000	0.0830
CI-103	20907.0000	0.1210
CI-102	28719.0000	0.1662
CI-101	14787.0000	0.0856
MHI-59	43146.0000	0.2497
CI-98	23913.0000	0.1384
CI-99	11304.0000	0.0654
CI-100	25668.0000	0.1485
CI-95B	254970.0050	1.4755
MHI-57	80676.0000	0.4669
MHI-58	102721.5025	0.5945
CI-93	213003.0150	1.2327
CI-94	10431.0000	0.0604
CI-95A	11754.0000	0.0680
MHI-55	67995.0000	0.3935
MHI-56	42417.0000	0.2455
CI-96A	29992.5025	0.1736
CI-92	26982.0000	0.1561
CI-91	16083.0000	0.0931
MHI-54	34290.0000	0.1984
CI-88	12798.0000	0.0741
MHI-52	63405.0000	0.3669
CI-81	8577.0000	0.0496
MHI-50	69331.0503	0.4012
MHI-49	46179.0000	0.2672
MHI-48	46881.0000	0.2713
CI-79	8703.0000	0.0504
MHI-47	12942.0000	0.0749
MHI-46	51084.0000	0.2956
CI-76	9549.0000	0.0553
CI-75	4347.0000	0.0252
CI-78	12186.0000	0.0705
CI-77A	18243.0000	0.1056
CI-74	16956.0000	0.0981
MHI-45	70362.0000	0.4072
CI-73	24372.0000	0.1410
CI-70	19917.0000	0.1153
MHI-44	42039.0000	0.2433
CI-72	12258.0000	0.0709
CI-112B	355666.5825	2.0583

MHI-86	96777.0000	0.5601
CI-155A	2610.0000	0.0151
CI-155B	2169.0000	0.0126
CI-151	182335.5225	1.0552
CI-152	16524.0000	0.0956
CI-149	101263.5075	0.5860
CI-148	142114.5125	0.8224
MHI-82	92961.0000	0.5380
MHI-81	110965.5025	0.6422
CI-147	14778.0000	0.0855
CI-144	26964.0000	0.1560
CI-141	20871.0000	0.1208
CI-140	11745.0000	0.0680
CI-139	11745.0000	0.0680
CI-138	19593.0000	0.1134
CI-132	15210.0000	0.0880
CI-136	14346.0000	0.0830
DI-15	242338.5425	1.4024
MHI-69	52389.0000	0.3032
CI-110	12186.0000	0.0705
CI-112A	19602.0000	0.1134
CI-100B	32652.0000	0.1890
CI-97	13491.0000	0.0781
MHI-60	41238.0000	0.2386
CI-96B	22167.0000	0.1283
CI-82	24795.0000	0.1435
CI-81A	7092.0000	0.0410
CI-82A	16965.0000	0.0982
MHI-50A	16510.5000	0.0955
CI-83	8721.0000	0.0505
MHI-53	34506.0000	0.1997
CI-85	5229.0000	0.0303
CI-86	8721.0000	0.0505
CI-87	1.70595E+06	9.8724
CI-89	21105.0000	0.1221
CI-90	13041.0000	0.0755
CI-80	3474.0000	0.0201
CI-77B	26100.0000	0.1510
CI-78A	16533.0000	0.0957
CI-73A	16542.0000	0.0957
CI-69	16083.0000	0.0931
MHI-43	79173.0000	0.4582
CI-71	10161.0000	0.0588
MHI-42	52461.0000	0.3036
MHI-41	53244.0000	0.3081
CI-68	20763.0000	0.1202
CI-67	23850.0000	0.1380
CI-107B	14346.0000	0.0830
CI-102A	27405.0000	0.1586
CI-137	14778.0000	0.0855
SYS-D-OUT	69751.3140	0.4037
MHI-51	57510.0000	0.3328
CI-121	11727.0000	0.0679
SYS-E-OUT	210001.1004	1.2153
SYS-C-OUT	388299.5326	2.2471
SYS-F-OUT	15330.5044	0.0887
MH-D2	14.44295E+06	83.5819
B-6	26.84078E+06	155.3286
SYS-G-OUT	57430.5988	0.3324
G-3	2.67844E+06	15.5002
F-OFFSITE	6.53553E+06	37.8213
MH-B1	490041.4948	2.8359
SYS-D-OUT	-15.645E+06	-90.5375
SYS-E-OUT	-2.728E+06	-15.7893

SYS-C-OUT	-2.965E+06	-17.1613
SYS-F-OUT	-7.510E+06	-43.4598
SYS-B-OUT	-28.741E+06	-166.3274
SYS-G-OUT	-4.797E+06	-27.7602

Outflow Junction	Outflow Volume,ft^3	Average Outflow, cfs
SYS-D-OUT	15.64488E+06	90.5375
SYS-E-OUT	2.72839E+06	15.7893
SYS-C-OUT	2.96548E+06	17.1613
SYS-F-OUT	7.50986E+06	43.4598
SYS-B-OUT	28.74137E+06	166.3274
SYS-G-OUT	4.79697E+06	27.7602

Initial system volume	=	57.3011 Cu Ft
Total system inflow volume	=	61.185122E+06 Cu Ft
Inflow + Initial volume	=	61.185179E+06 Cu Ft
Total system outflow	=	62.386946E+06 Cu Ft
Volume left in system	=	84279.9881 Cu Ft
Evaporation	=	0.0000 Cu Ft
Outflow + Final Volume	=	62.471226E+06 Cu Ft

Total Model Continuity Error		
Error in Continuity, Percent	=	-2.1019
Error in Continuity, ft^3	=	-1286047.213
+ Error means a continuity loss, - a gain		

```
##################################################
# Table E22. Numerical Model judgement section   #
##################################################
```

Your overall error was -2.1019 percent

Worst nodal error was in node MH-B1 with -25.5042 percent

Of the total inflow this loss was 0.5482 percent

Your overall continuity error was Good

Excellent Efficiency

Efficiency of the simulation 1.48

Most Number of Non Convergences at one Node 0.

Total Number Non Convergences at all Nodes 0.

Total Number of Nodes with Non Convergences 0.

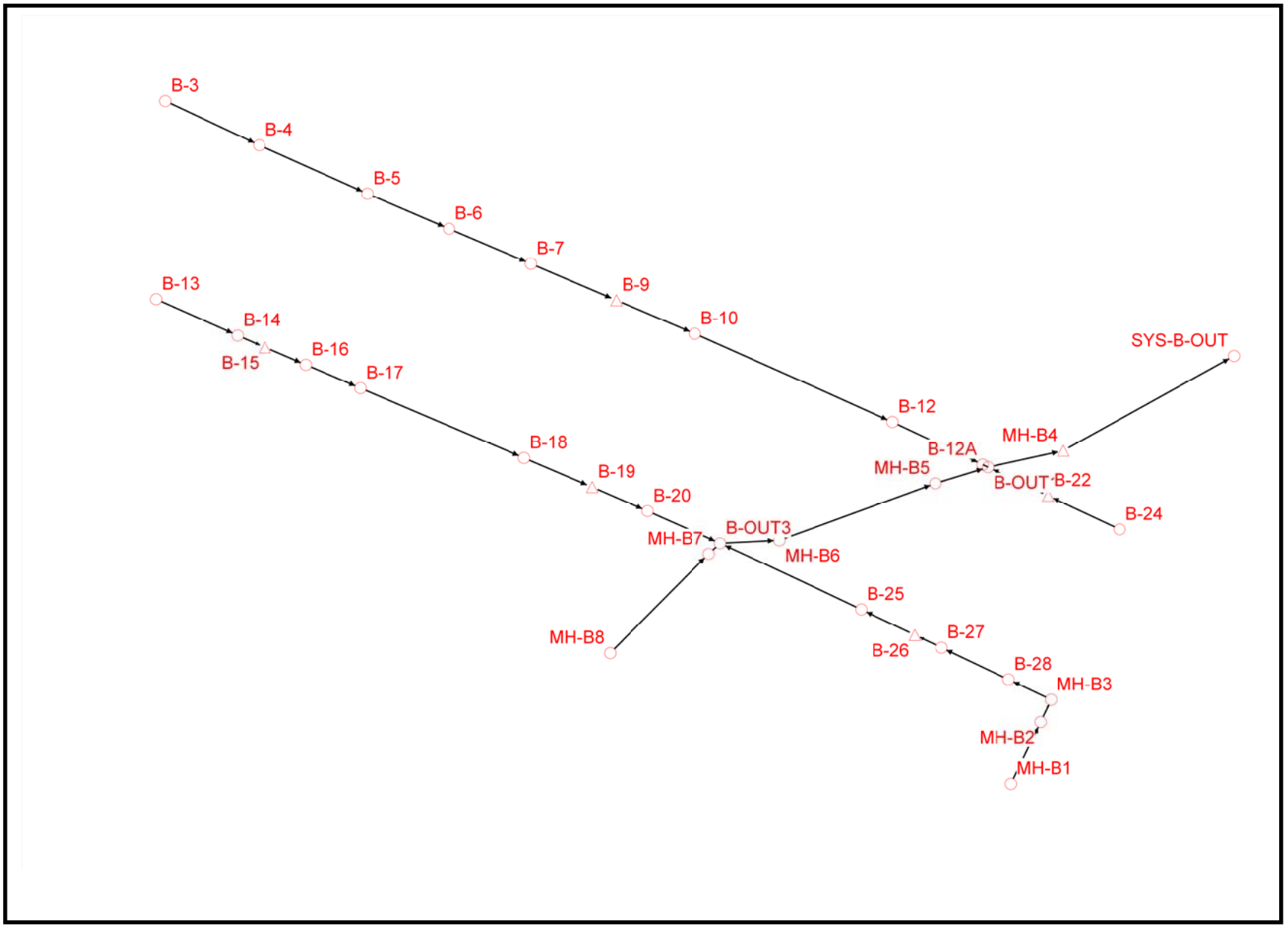
===> Hydraulic model simulation ended normally.
===> XP-SWMM Simulation ended normally.

===> Your input file was named : P:\PROJECTS\290PMC\PHASEII\DRA\Models\SWMM\Outfalls 9-16\SWMM\Report 6-2011\Existing\US290_SegB_EX_B-G_NS_1(final).DAT
===> Your output file was named : P:\PROJECTS\290PMC\PHASEII\DRA\Models\SWMM\Outfalls 9-16\SWMM\Report 6-2011\Existing\US290_SegB_EX_B-G_NS_1(final).out

SWMM Simulation Date and Time Summary				
Starting Date... June	22, 2011	Time...	14:34:44:56	
Ending Date... June	22, 2011	Time...	15:21:32: 3	
Elapsed Time...	46.79117 minutes or		2807.47000 seconds	

OUTFALL 11
SWMM OUTPUT
100 YR- MITIGATED CONDITIONS

OUTFALL 11
MITIGATED CONDITIONS SWMM LAYOUT



```
 Current Directory:   C:\XPS\xpstorm
 Engine Name: C:\XPS\xpstorm\SWMMEN~1.EXE


 Input File : Outfalls 9-16\SWMM\Report 6-2011\Mitigated\US290_Mit_SegB_SysB.XP

          *================================================*
          |                    xpswmm                      |
          |     Storm and Wastewater Management Model      |
          |           Interface Version: 10.52             |
          |              Engine Version: 10.54             |
          |================================================|
          |                                                |
          |                Developed by                    |
          |                                                |
          |                XP Software                     |
          |                                                |
          |================================================|
          |      XP Software       November, 2006          |
          |       Data File Version --->    11.9           |
          |       Serial Number: 66-1052-0602              |
          |                H & H Resources                 |
          *================================================*

Engine Name: C:\XPS\xpstorm\SWMMEN~1.EXE


*====================================================*
|       Input and Output file names by Layer         |
*====================================================*

 Input File  to Layer #     1 JOT.US
 Output File to Layer #     1 JOT.US

*============================================================*
|   Special command line arguments in XP-SWMM2000. This     |
|   now includes program defaults. $Keywords are the program|
|   defaults.  Other Keywords are from the SWMMCOM.CFG file.|
|   or the command line or any cfg file on the command line.|
|   Examples include these in the file xpswm.bat under the   |
|   section :solve or in the windows version XPSWMM32 in the|
|   file solve.bat                                           |
|                                                            |
|   Note: the cfg file should be in the subdirectory swmxp   |
|         or defined by the set variable in the xpswm.bat    |
|         file.  Some examples of the command lines possible|
|         are shown below:                                   |
|                                                            |
|   swmmd swmmcom.cfg                                        |
|   swmmd my.cfg                                             |
|   swmmd nokeys nconv5 perv extranwq                        |
*============================================================*

 $powerstation                        0.0000         1         2
 $perv                                0.0000         0         4
 $oldegg                              0.0000         0         7
 $as                                  0.0000         0        11
 $noflat                              0.0000         0        21
 $oldomega                            0.0000         0        24
 $oldvol                              0.0000         1        28
 $implicit                            0.0000         1        29
 $oldhot                              0.0000         1        31
 $oldscs                              0.0000         0        33
 $flood                               0.0000         1        40
 $nokeys                              0.0000         0        42
 $pzero                               0.0000         0        55
 $oldvol2                             0.0000         2        59
 $storage2                            0.0000         3        62
 $oldhot1                             0.0000         1        63
 $pumpwt                              0.0000         1        70
 $ecloss                              0.0000         1        77
 $exout                               0.0000         0        97
 SPATIAL=0.55                         0.5500         5       124
 $djref = -1.0                       -0.1000         3       143
 $weirlen = 50                       50.0000         1       153
 $oldbnd                              0.0000         1       154
 $nogrelev                            0.0000         1       161
 $ncmid                               0.0000         0       164
 $new_nl_97                           0.0000         2       290
 $best97                              0.0000         1       294
 $newbound                            0.0000         1       295
 $q_tol = 0.01                        0.0001         1       316
 $new_storage                         0.0000         1       322
 $old_iteration                       0.0000         1       333
 MINLEN=10                           10.0000         1       346
 $review_elevation                    0.0000         1       383
 $use_half_volume                     0.0000         1       385
 $min_ts = 0.5                        0.5000         1       407
 $design_restart = on                 0.0000         1       412
 $zero_value=1.e-05                   0.0000         1       415
 $relax_depth = on                    0.0000         1       427
 $saveallpts = on                     0.0000         1       434

 *============================================================*
 | Parameter Values on the Tapes Common Block.These are the |
 | values read from the data file and dynamically allocated |
 | by the model for this simulation.                        |
 *============================================================*

  Number of Subcatchments in the Runoff Block (NW)....     0
  Number of Channel/Pipes in the Runoff Block (NG)....     0
  Runoff Water quality constituents (NRQ).............     0
  Runoff Land Uses per Subcatchment (NLU).............     0
  Number of Elements in the Transport Block (NET).....     0
  Number of Storage Junctions in Transport (NTSE).....     0
  Number of Input Hydrographs in Transport (NTH)......     0
  Number of Elements in the Extran Block (NEE)........    34
  Number of Groundwater Subcatchments in Runoff (NGW).     0
  Number of Interface locations for all Blocks (NIE)..    34
  Number of Pumps in Extran (NEP).....................     0
  Number of Orifices in Extran (NEO)..................     0
  Number of Tide Gates/Free Outfalls in Extran (NTG)..     1
  Number of Extran Weirs (NEW)........................     0
  Number of scs hydrograph points.....................     1
  Number of Extran printout locations (NPO)...........     0
  Number of Tide elements in Extran (NTE).............     1
  Number of Natural channels (NNC)....................     1
  Number of Storage junctions in Extran (NVSE)........     6
  Number of Time history data points in Extran(NTVAL).   300
  Number of Variable storage elements in Extran (NVST)     7
  Number of Input Hydrographs in Extran (NEH).........    25
  Number of Particle sizes in Transport Block (NPS)...     0
  Number of User defined conduits (NHW)...............    34
  Number of Connecting conduits in Extran (NECC)......    20
  Number of Upstream elements in Transport (NTCC).....    10
  Number of Storage/treatment plants (NSTU)...........     1
```

```
 Number of Values for R1 lines in Transport (NR1)....     0
 Number of Nodes to be allowed for (NNOD)............    34
 Number of Plugs in a Storage Treatment Unit.........     1


#####################################################
#    Entry made to the HYDRAULIC Layer(Block) of SWMM #
#    Last Updated June,2005 by XP Software          #

    US 290/ Hempstead Highway Corridor - From W.Little York to Hollister
    Drainage Impact & Mitigation Study - Existing Conditions - SegB_SysA -1


*=========================================================*
|        HYDRAULICS TABLES IN THE OUTPUT FILE             |
|  These are the more important tables in the output file.  |
|  You can use your editor to find the table numbers,       |
|  for example: search for Table E20 to check continuity.   |
|  This output file can be imported into a Word Processor   |
|  and printed on US letter or A4 paper using portrait      |
|  mode, courier font, a size of 8 pt. and margins of 0.75  |
|                                                           |
| Table E1   - Basic Conduit Data                           |
| Table E2   - Conduit Factor Data                          |
| Table E3a  - Junction Data                                |
| Table E3b  - Junction Data                                |
| Table E4   - Conduit Connectivity Data                    |
| Table E4a  - Dry Weather Flow Data                        |
| Table E4b  - Real Time Control Data                       |
| Table E5   - Junction Time Step Limitation Summary        |
| Table E5a  - Conduit Explicit Condition Summary           |
| Table E6   - Final Model Condition                        |
| Table E7   - Iteration Summary                            |
| Table E8   - Junction Time Step Limitation Summary        |
| Table E9   - Junction  Summary  Statistics                |
| Table E10  - Conduit   Summary  Statistics                |
| Table E11  - Area assumptions used in the analysis        |
| Table E12  - Mean conduit information                     |
| Table E13  - Channel losses(H) and culvert info           |
| Table E13a - Culvert Analysis Classification              |
| Table E14  - Natural Channel Overbank Flow Information    |
| Table E14a - Natural Channel Encroachment Information     |
| Table E14b - Floodplain Mapping                           |
| Table E15  - Spreadsheet Info List                        |
| Table E15a - Spreadsheet Reach List                       |
| Table E16  - New Conduit Output Section                   |
| Table E17  - Pump Operation                               |
| Table E18  - Junction Continuity Error                    |
| Table E19  - Junction Inflow & Outflow Listing            |
| Table E20  - Junction Flooding and Volume List            |
| Table E21  - Continuity balance at simulation end         |
| Table E22  - Model Judgement Section                      |
*=========================================================*

Time Control from Hydraulics Job Control
Year.........    1995 Month.......       1
Day..........       1 Hour........       0
Minute.......       0 Second......       0


Control information for simulation
----------------------------------

Integration cycles..................    172800
Length of integration step is......      1.00 seconds
Simulation length...................     48.00 hours
Do not create equiv. pipes(NEQUAL).         0
Use U.S. customary units for I/O...         0
Printing starts in cycle...........         1
Intermediate printout intervals of.       500 cycles
Intermediate printout intervals of.      8.33 minutes
Summary printout intervals of......       500 cycles
Summary printout time interval of..      8.33 minutes
Hot start file parameter (REDO)....         0
Initial time.......................      0.00 hours

Iteration variables: Flow Tolerance.   0.00010
                     Head Tolerance.   0.00010
    Minimum depth (m or ft).........   0.00001
    Underrelaxation parameter.......   0.85000
    Time weighting parameter........   0.85000
    Conduit roughness factor........   1.00000
    Flow adjustment factor..........   1.00000
    Initial Condition Smoothing.....         0
    Courant Time Step Factor........   1.00000
    Default Expansion/Contraction K.   0.00000
    Default Entrance/Exit K.........   0.00000
    Routing Method..................   Dynamic Wave
Default surface area of junctions...     12.57 square feet.
Minimum Junction/Conduit Depth......   0.00001 feet.
Ponding Area Coefficient............   5000.00
Ponding Area Exponent...............    1.0000
Minimum Orifice Length..............    500.00 feet.
NJSW input hydrograph junctions.....    25
     or user defined hydrographs....


        Natural Cross-Section information for Channel L_L-MH-B8
        =======================================================
         Cross-Section ID (from X1 card) :     1.0 Channel sequence number :     1

  Left Overbank Length   :    201.0 ft               Maximum Elevation        :    92.48 ft.
  Main Channel Length    :    206.0 ft               Maximum Depth            :     9.86 ft.
  Right Overbank Length  :    216.0 ft               Maximum Section Area     : 249.2779 ft^2
                                                     Maximum hydraulic radius :     2.54 ft.
  Manning N :      0.050  to Station         107.6    Max topwidth             :    92.97 ft.
    "     "  :      0.040  in main Channel             Maximum Wetted Perimeter : 9.83E+01 ft
    "     "  :      0.050  Beyond station     137.3    Max left bank area       :     2.14 ft^2
                                                     Max right bank area      :    70.33 ft^2
  Allowable Encroachment Depth :    0.00 ft          Max center channel area  : 176.8044 ft^2

*=================================================*
|          Table E1 - Conduit Data                |
*=================================================*

                                                                                    Trapezoid
 Inp          Conduit      Length    Conduit      Area    Manning  Max Width      Depth       Side
 Num            Name         (ft)     Class     (ft^2)     Coef.    (ft)         (ft)      Slopes
---- --------------- ---------- ---------   -------   -------  ---------      -----      -------
   1        L_L-B-12A    10.0690  Rectangle   15.0000     0.0130     5.0000     3.0000
   2         L_L-B-12   167.9780  Rectangle   15.0000     0.0130     5.0000     3.0000
   3         L_L-B-10   366.2550  Rectangle   12.0000     0.0130     4.0000     3.0000
   4          L_L-B-9   143.6140  Rectangle   12.0000     0.0130     4.0000     3.0000
   5          L_L-B-7   156.6020  Rectangle   12.0000     0.0130     4.0000     3.0000
   6          L_L-B-6   150.0000  Rectangle    9.0000     0.0130     3.0000     3.0000
   7          L_L-B-5   149.8850   Circular    7.0686     0.0130     3.0000     3.0000
   8          L_L-B-4   199.7800   Circular    4.9087     0.0130     2.5000     2.5000
   9          L_L-B-3   174.8530   Circular    3.1416     0.0130     2.0000     2.0000
  10         L_L-B-22   105.7840   Circular    4.9087     0.0130     2.5000     2.5000
```

11	L_L-B-24	133.4310	Circular	3.1416	0.0130	2.0000	2.0000		
12	L_L-B-20	133.9150	Rectangle	12.0000	0.0130	4.0000	3.0000		
13	L_L-B-19	101.8690	Rectangle	12.0000	0.0130	4.0000	3.0000		
14	L_L-B-18	124.9910	Rectangle	9.0000	0.0130	3.0000	3.0000		
15	L_L-B-17	299.8140	Rectangle	9.0000	0.0130	3.0000	3.0000		
16	L_L-B-16	100.0000	Rectangle	9.0000	0.0130	3.0000	3.0000		
17	L_L-B-15	75.1960	Circular	7.0686	0.0130	3.0000	3.0000		
18	L_L-B-14	49.9070	Circular	4.9087	0.0130	2.5000	2.5000		
19	L_L-B-13	150.2540	Circular	3.1416	0.0130	2.0000	2.0000		
20	L_L-B-25	259.2280	Rectangle	15.0000	0.0130	5.0000	3.0000		
21	L_L-B-26	100.1480	Rectangle	15.0000	0.0130	5.0000	3.0000		
22	L_L-B-27	49.8520	Rectangle	15.0000	0.0130	5.0000	3.0000		
23	L_L-B-28	125.0000	Rectangle	12.0000	0.0130	4.0000	3.0000		
24	L_L-MH-B3	79.3880	Rectangle	12.0000	0.0130	4.0000	3.0000		
25	L_L-MH-B2	41.5360	Rectangle	12.0000	0.0130	4.0000	3.0000		
26	L_L-MH-B1	115.4700	Circular	7.0686	0.0130	3.0000	3.0000		
27	L_L-MH-B8	206.0000	Natural	249.2779	0.0400	92.9700	9.8600		
28	L_L-B-OUT3	80.0000	Trapezoid	473.0000	0.0400	10.0000	11.0000	3.0000	3.0000
29	L_L-MH-B6	337.0000	Trapezoid	473.0000	0.0400	10.0000	11.0000	3.0000	3.0000
30	L_L-MH-B5	86.0000	Trapezoid	473.0000	0.0400	10.0000	11.0000	3.0000	3.0000
31	L_L-B-OUT1	109.0000	Trapezoid	473.0000	0.0400	10.0000	11.0000	3.0000	3.0000
32	L_L-MH-B4	330.0000	Trapezoid	473.0000	0.0400	10.0000	11.0000	3.0000	3.0000
33	L_L-MH-B7	36.0000	Trapezoid	473.0000	0.0400	10.0000	11.0000	3.0000	3.0000

Total length of all conduits .... 4748.8190 feet

```
*=====================================================*
| If there are messages about (sqrt(g*d)*dt/dx), or |
| the sqrt(wave celerity)*time step/conduit length  |
| in the output file all it means is that the       |
| program will lower the internal time step to      |
| satisfy this condition (explicit condition).      |
| You control the actual internal time step by      |
| using the minimum courant time step factor in the |
| HYDRAULICS job control.  The message put in words |
| states that the smallest conduit with the fastest |
| velocity will control the time step selection.    |
| You have further control by using the modify      |
| conduit option in the HYDRAULICS Job Control.     |
*=====================================================*
```

Conduit Name	Courant Ratio
L_L-B-12A	0.98
L_L-B-12	0.06
L_L-B-10	0.03
L_L-B-9	0.07
L_L-B-7	0.06
L_L-B-6	0.07
L_L-B-5	0.07
L_L-B-4	0.04
L_L-B-3	0.05
L_L-B-22	0.08
L_L-B-24	0.06
L_L-B-20	0.07
L_L-B-19	0.10
L_L-B-18	0.08
L_L-B-17	0.03
L_L-B-16	0.10
L_L-B-15	0.13
L_L-B-14	0.18
L_L-B-13	0.05
L_L-B-25	0.04
L_L-B-26	0.10
L_L-B-27	0.20
L_L-B-28	0.08
L_L-MH-B3	0.12
L_L-MH-B2	0.24
L_L-MH-B1	0.09
L_L-MH-B8	0.05
L_L-B-OUT3	0.18
L_L-MH-B6	0.04
L_L-MH-B5	0.16
L_L-B-OUT1	0.13
L_L-MH-B4	0.04
L_L-MH-B7	0.39

```
*==================*
|  Conduit Volume  |
*==================*

Full pipe or full open conduit volume
Input full depth volume.............    5.4820E+05 cubic feet
```

===
| Table E3a - Junction Data |
===

Inp Num	Junction Name	Ground Elevation	Crown Elevation	Invert Elevation	Qinst cfs	Initial Depth-ft	Interface Flow (%)
1	B-OUT1	90.6500	90.6500	79.5900	0.0000	0.0000	100.0000
2	B-12A	90.2900	90.2900	82.6720	0.0000	0.0000	100.0000
3	B-12	90.3500	90.3500	82.8400	0.0000	0.0000	100.0000
4	B-10	90.6600	90.6600	83.2060	0.0000	0.0000	100.0000
5	B-9	90.7800	90.7800	83.3500	0.0000	0.0000	100.0000
6	B-7	90.9000	90.9000	83.5070	0.0000	0.0000	100.0000
7	B-6	91.0300	91.0300	83.6570	0.0000	0.0000	100.0000
8	B-5	91.2200	91.2200	83.8070	0.0000	0.0000	100.0000
9	B-4	92.0200	92.0200	84.5070	0.0000	0.0000	100.0000
10	B-3	92.7200	92.7200	85.1820	0.0000	0.0000	100.0000
11	B-22	90.2400	90.2400	82.8720	0.0000	0.0000	100.0000
12	B-24	90.1800	90.1800	83.6390	0.0000	0.0000	100.0000
13	B-OUT3	92.2100	92.2100	80.0900	0.0000	0.0000	100.0000
14	B-20	91.7500	91.7500	85.2480	0.0000	0.0000	100.0000
15	B-19	91.3900	91.3900	85.3500	0.0000	0.0000	100.0000
16	B-18	92.2000	92.2000	85.4750	0.0000	0.0000	100.0000
17	B-17	92.9000	92.9000	85.7750	0.0000	0.0000	100.0000
18	B-16	92.5500	92.5500	85.8750	0.0000	0.0000	100.0000
19	B-15	92.2900	92.2900	85.9500	0.0000	0.0000	100.0000
20	B-14	92.6100	92.6100	86.5000	0.0000	0.0000	100.0000
21	B-13	93.5900	93.5900	87.1500	0.0000	0.0000	100.0000
22	B-25	91.1400	91.1400	80.3640	0.0000	0.0000	100.0000
23	B-26	90.4900	90.4900	80.4640	0.0000	0.0000	100.0000
24	B-27	90.6600	90.6600	80.5140	0.0000	0.0000	100.0000
25	B-28	91.1000	91.1000	80.6390	0.0000	0.0000	100.0000
26	MH-B3	91.3800	91.3800	80.7180	0.0000	0.0000	100.0000
27	MH-B2	91.3800	91.3800	80.7600	0.0000	0.0000	100.0000
28	MH-B1	92.2900	92.2900	80.9200	0.0000	0.0000	100.0000
29	SYS-B-OUT	90.5000	90.5000	79.1600	0.0000	0.0000	100.0000
30	MH-B4	91.0000	91.0000	79.4800	0.0000	0.0000	100.0000
31	MH-B5	91.0000	91.0000	79.6700	0.0000	0.0000	100.0000
32	MH-B6	91.5000	91.5000	80.0100	0.0000	0.0000	100.0000
33	MH-B8	93.7300	93.7300	83.8600	0.0000	0.0000	100.0000
34	MH-B7	94.8000	94.8000	83.1800	0.0000	0.0000	100.0000

Table E3b - Junction Data

Inp Num	Junction Name	X Coord.	Y Coord.	Type of Manhole	Type of Inlet	Maximum Capacity	Pavement Shape	Pavement Slope
1	B-OUT1	3.067736E+06	13.87975E+06	F	Normal		0	0.0000
2	B-12A	3.067727E+06	13.87975E+06	F	Normal		0	0.0000
3	B-12	3.067575E+06	13.87982E+06	F	Normal		0	0.0000
4	B-10	3.067240E+06	13.87997E+06	F	Normal		0	0.0000
5	B-9	3.067108E+06	13.88003E+06	F	Normal		0	0.0000
6	B-7	3.066964E+06	13.88009E+06	F	Normal		0	0.0000
7	B-6	3.066826E+06	13.88015E+06	F	Normal		0	0.0000
8	B-5	3.066688E+06	13.88021E+06	F	Normal		0	0.0000
9	B-4	3.066506E+06	13.88029E+06	F	Normal		0	0.0000
10	B-3	3.066348E+06	13.88036E+06	F	Normal		0	0.0000
11	B-22	3.067837E+06	13.87970E+06	F	Normal		0	0.0000
12	B-24	3.067958E+06	13.87964E+06	F	Normal		0	0.0000
13	B-OUT3	3.067283E+06	13.87962E+06	F	Normal		0	0.0000
14	B-20	3.067161E+06	13.87967E+06	F	Normal		0	0.0000
15	B-19	3.067067E+06	13.87971E+06	F	Normal		0	0.0000
16	B-18	3.066952E+06	13.87976E+06	F	Normal		0	0.0000
17	B-17	3.066677E+06	13.87988E+06	F	Normal		0	0.0000
18	B-16	3.066585E+06	13.87992E+06	F	Normal		0	0.0000
19	B-15	3.066515E+06	13.87995E+06	F	Normal		0	0.0000
20	B-14	3.066470E+06	13.87997E+06	F	Normal		0	0.0000
21	B-13	3.066332E+06	13.88003E+06	F	Normal		0	0.0000
22	B-25	3.067522E+06	13.87950E+06	F	Normal		0	0.0000
23	B-26	3.067613E+06	13.87946E+06	F	Normal		0	0.0000
24	B-27	3.067658E+06	13.87944E+06	F	Normal		0	0.0000
25	B-28	3.067771E+06	13.87939E+06	F	Normal		0	0.0000
26	MH-B3	3.067842E+06	13.87935E+06	F	Normal		0	0.0000
27	MH-B2	3.067825E+06	13.87932E+06	F	Normal		0	0.0000
28	MH-B1	3.067775E+06	13.87921E+06	F	Normal		0	0.0000
29	SYS-B-OUT	3.068151E+06	13.87993E+06	F	Normal		0	0.0000
30	MH-B4	3.067863E+06	13.87977E+06	F	Normal		0	0.0000
31	MH-B5	3.067647E+06	13.87972E+06	F	Normal		0	0.0000
32	MH-B6	3.067383E+06	13.87962E+06	F	Normal		0	0.0000
33	MH-B8	3.067098E+06	13.87943E+06	F	Normal		0	0.0000
34	MH-B7	3.067264E+06	13.87960E+06	F	Normal		0	0.0000

Table E4 - Conduit Connectivity

Input Number	Conduit Name	Upstream Node	Downstream Node	Upstream Elevation	Downstream Elevation	
1	L_L-B-12A	B-12A	B-OUT1	82.6720	82.6600	No Design
2	L_L-B-12	B-12	B-12A	82.8400	82.6720	No Design
3	L_L-B-10	B-10	B-12	83.2060	82.8400	No Design
4	L_L-B-9	B-9	B-10	83.3500	83.2060	No Design
5	L_L-B-7	B-7	B-9	83.5070	83.3500	No Design
6	L_L-B-6	B-6	B-7	83.6570	83.5070	No Design
7	L_L-B-5	B-5	B-6	83.8070	83.6570	No Design
8	L_L-B-4	B-4	B-5	84.5070	84.3070	No Design
9	L_L-B-3	B-3	B-4	85.1820	85.0070	No Design
10	L_L-B-22	B-22	B-OUT1	82.8720	82.6600	No Design
11	L_L-B-24	B-24	B-22	83.6390	83.3720	No Design
12	L_L-B-20	B-20	B-OUT3	85.2580	85.1240	No Design
13	L_L-B-19	B-19	B-20	85.3500	85.2480	No Design
14	L_L-B-18	B-18	B-19	85.4750	85.3500	No Design
15	L_L-B-17	B-17	B-18	85.7750	85.4750	No Design
16	L_L-B-16	B-16	B-17	85.8750	85.7750	No Design
17	L_L-B-15	B-15	B-16	85.9500	85.8750	No Design
18	L_L-B-14	B-14	B-15	86.5000	86.4500	No Design
19	L_L-B-13	B-13	B-14	87.1500	87.0000	No Design
20	L_L-B-25	B-25	B-OUT3	80.3640	80.1050	No Design
21	L_L-B-26	B-26	B-25	80.4640	80.3640	No Design
22	L_L-B-27	B-27	B-26	80.5140	80.4640	No Design
23	L_L-B-28	B-28	B-27	80.6390	80.5140	No Design
24	L_L-MH-B3	MH-B3	B-28	80.7180	80.6390	No Design
25	L_L-MH-B2	MH-B2	MH-B3	80.7600	80.7180	No Design
26	L_L-MH-B1	MH-B1	MH-B2	80.9200	80.7600	No Design
27	L_L-MH-B8	MH-B8	MH-B7	83.8600	83.1800	No Design
28	L_L-B-OUT3	B-OUT3	MH-B6	80.0900	80.0100	No Design
29	L_L-MH-B6	MH-B6	MH-B5	80.0100	79.6700	No Design
30	L_L-MH-B5	MH-B5	B-OUT1	79.6700	79.5900	No Design
31	L_L-B-OUT1	B-OUT1	MH-B4	79.5900	79.4800	No Design
32	L_L-MH-B4	MH-B4	SYS-B-OUT	79.4800	79.1600	No Design
33	L_L-MH-B7	MH-B7	B-OUT3	83.1800	80.0900	No Design

====> Warning !!! Node: MH-B4 Area = 0.0 at stage 7.790 Area reset to 0.000

Storage Junction Data

STORAGE JUNCTION NUMBER OR NAME	JUNCTION TYPE	MAXIMUM OR CONSTANT SURFACE AREA (FT2)	PEAK OR CONSTANT VOLUME (CUBIC FEET)	CROWN ELEVATION (FT)	DEPTH STARTS FROM
B-9	Stage/Area	17119.0800	117109.3821	90.7800	Spill Crest
B-22	Stage/Area	17119.0800	116047.9992	90.2400	Spill Crest
B-19	Stage/Area	17119.0800	93313.8609	91.3900	Spill Crest
B-15	Stage/Area	17119.0800	98449.5849	92.2900	Spill Crest
B-26	Stage/Area	17119.0800	161550.5138	90.4900	Spill Crest
MH-B4	Stage/Area	136342.8000	603891.9149	91.0000	Spill Crest

Variable storage data for node | B-9

Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	83.3500	0.0000	4.3560	0.0000	0.0001	0.0000
2	83.3750	0.0250	150.8265	1.5068	0.0035	0.0000
3	83.4000	0.0500	297.2970	7.0058	0.0068	0.0002
4	83.4250	0.0750	443.7675	16.2082	0.0102	0.0004
5	83.4500	0.1000	590.2380	29.0898	0.0135	0.0007
6	83.4750	0.1250	736.7085	45.6428	0.0169	0.0010
7	83.5000	0.1500	883.1790	65.8638	0.0203	0.0015
8	83.5250	0.1750	1029.6495	89.7507	0.0236	0.0021
9	83.5500	0.2000	1176.1200	117.3026	0.0270	0.0027
10	83.5750	0.2250	1475.5950	150.3783	0.0339	0.0035
11	83.6000	0.2500	1775.0700	190.9540	0.0408	0.0044
12	83.6250	0.2750	2074.5450	239.0256	0.0476	0.0055
13	83.6500	0.3000	2374.0200	294.5906	0.0545	0.0068
14	83.6750	0.3250	2673.4950	357.6475	0.0614	0.0082
15	83.7000	0.3500	2972.9700	428.1952	0.0683	0.0098
16	83.7250	0.3750	3272.4450	506.2330	0.0751	0.0116
17	83.7500	0.4000	3571.9200	591.7602	0.0820	0.0136
18	83.7625	0.4125	3773.3850	637.6626	0.0866	0.0146
19	83.7750	0.4250	3974.8500	686.0836	0.0912	0.0158
20	83.7875	0.4375	4176.3150	737.0232	0.0959	0.0169

21	83.8000	0.4500	4377.7800	790.4814	0.1005	0.0181
22	83.8125	0.4625	4579.2450	846.4581	0.1051	0.0194
23	83.8250	0.4750	4780.7100	904.9533	0.1098	0.0208
24	83.8375	0.4875	4982.1750	965.9670	0.1144	0.0222
25	83.8500	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	83.8625	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	83.8750	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	83.8875	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	83.9000	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	83.9125	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	83.9250	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	83.9375	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	83.9500	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	83.9625	0.6125	7900.6950	1761.8875	0.1814	0.0404
35	83.9750	0.6250	8265.5100	1862.9177	0.1897	0.0428
36	83.9875	0.6375	8630.3250	1968.5084	0.1981	0.0452
37	84.0000	0.6500	8995.1400	2078.6597	0.2065	0.0477
38	84.0125	0.6625	9359.9550	2193.3715	0.2149	0.0504
39	84.0250	0.6750	9724.7700	2312.6438	0.2233	0.0531
40	84.0375	0.6875	10089.5850	2436.4765	0.2316	0.0559
41	84.0500	0.7000	10454.4000	2564.8697	0.2400	0.0589
42	84.0750	0.7250	11287.4850	2836.5767	0.2591	0.0651
43	84.1000	0.7500	12120.5700	3129.1156	0.2782	0.0718
44	84.1250	0.7750	12953.6550	3442.4857	0.2974	0.0790
45	84.1500	0.8000	13786.7400	3776.6866	0.3165	0.0867
46	84.1750	0.8250	14619.8250	4131.7177	0.3356	0.0949
47	84.2000	0.8500	15452.9100	4507.5788	0.3548	0.1035
48	84.2250	0.8750	16285.9950	4904.2696	0.3739	0.1126
49	84.2500	0.9000	17119.0800	5321.7897	0.3930	0.1222
50	90.7800	7.4300	17119.0800	117109.3821	0.3930	2.6885

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| Variable storage data for node | B-22
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	82.8720	0.0000	4.3560	0.0000	0.0001	0.0000
2	82.8970	0.0250	150.8265	1.5068	0.0035	0.0000
3	82.9220	0.0500	297.2970	7.0058	0.0068	0.0002
4	82.9470	0.0750	443.7675	16.2082	0.0102	0.0004
5	82.9720	0.1000	590.2380	29.0898	0.0135	0.0007
6	82.9970	0.1250	736.7085	45.6428	0.0169	0.0010
7	83.0220	0.1500	883.1790	65.8638	0.0203	0.0015
8	83.0470	0.1750	1029.6495	89.7507	0.0236	0.0021
9	83.0720	0.2000	1176.1200	117.3026	0.0270	0.0027
10	83.0970	0.2250	1475.5950	150.3783	0.0339	0.0035
11	83.1220	0.2500	1775.0700	190.9540	0.0408	0.0044
12	83.1470	0.2750	2074.5450	239.0256	0.0476	0.0055
13	83.1720	0.3000	2374.0200	294.5906	0.0545	0.0068
14	83.1970	0.3250	2673.4950	357.6475	0.0614	0.0082
15	83.2220	0.3500	2972.9700	428.1952	0.0683	0.0098
16	83.2470	0.3750	3272.4450	506.2330	0.0751	0.0116
17	83.2720	0.4000	3571.9200	591.7602	0.0820	0.0136
18	83.2845	0.4125	3773.3850	637.6626	0.0866	0.0146
19	83.2970	0.4250	3974.8500	686.0836	0.0912	0.0158
20	83.3095	0.4375	4176.3150	737.0232	0.0959	0.0169
21	83.3220	0.4500	4377.7800	790.4814	0.1005	0.0181
22	83.3345	0.4625	4579.2450	846.4581	0.1051	0.0194
23	83.3470	0.4750	4780.7100	904.9533	0.1098	0.0208
24	83.3595	0.4875	4982.1750	965.9670	0.1144	0.0222
25	83.3720	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	83.3845	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	83.3970	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	83.4095	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	83.4220	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	83.4345	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	83.4470	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	83.4595	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	83.4720	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	83.4845	0.6125	7900.6950	1761.8875	0.1814	0.0404
35	83.4970	0.6250	8265.5100	1862.9177	0.1897	0.0428
36	83.5095	0.6375	8630.3250	1968.5084	0.1981	0.0452
37	83.5220	0.6500	8995.1400	2078.6597	0.2065	0.0477
38	83.5345	0.6625	9359.9550	2193.3715	0.2149	0.0504
39	83.5470	0.6750	9724.7700	2312.6438	0.2233	0.0531
40	83.5595	0.6875	10089.5850	2436.4765	0.2316	0.0559
41	83.5720	0.7000	10454.4000	2564.8697	0.2400	0.0589
42	83.5970	0.7250	11287.4850	2836.5767	0.2591	0.0651
43	83.6220	0.7500	12120.5700	3129.1156	0.2782	0.0718
44	83.6470	0.7750	12953.6550	3442.4857	0.2974	0.0790
45	83.6720	0.8000	13786.7400	3776.6866	0.3165	0.0867
46	83.6970	0.8250	14619.8250	4131.7177	0.3356	0.0949
47	83.7220	0.8500	15452.9100	4507.5788	0.3548	0.1035
48	83.7470	0.8750	16285.9950	4904.2696	0.3739	0.1126
49	83.7720	0.9000	17119.0800	5321.7897	0.3930	0.1222
50	90.2400	7.3680	17119.0800	116047.9992	0.3930	2.6641

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| Variable storage data for node | B-19
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	85.3500	0.0000	4.3560	0.0000	0.0001	0.0000
2	85.3750	0.0250	150.8265	1.5068	0.0035	0.0000
3	85.4000	0.0500	297.2970	7.0058	0.0068	0.0002
4	85.4250	0.0750	443.7675	16.2082	0.0102	0.0004
5	85.4500	0.1000	590.2380	29.0898	0.0135	0.0007
6	85.4750	0.1250	736.7085	45.6428	0.0169	0.0010
7	85.5000	0.1500	883.1790	65.8638	0.0203	0.0015
8	85.5250	0.1750	1029.6495	89.7507	0.0236	0.0021
9	85.5500	0.2000	1176.1200	117.3026	0.0270	0.0027
10	85.5750	0.2250	1475.5950	150.3783	0.0339	0.0035
11	85.6000	0.2500	1775.0700	190.9540	0.0408	0.0044
12	85.6250	0.2750	2074.5450	239.0256	0.0476	0.0055
13	85.6500	0.3000	2374.0200	294.5906	0.0545	0.0068
14	85.6750	0.3250	2673.4950	357.6475	0.0614	0.0082
15	85.7000	0.3500	2972.9700	428.1952	0.0683	0.0098
16	85.7250	0.3750	3272.4450	506.2330	0.0751	0.0116
17	85.7500	0.4000	3571.9200	591.7602	0.0820	0.0136
18	85.7625	0.4125	3773.3850	637.6626	0.0866	0.0146
19	85.7750	0.4250	3974.8500	686.0836	0.0912	0.0158
20	85.7875	0.4375	4176.3150	737.0232	0.0959	0.0169
21	85.8000	0.4500	4377.7800	790.4814	0.1005	0.0181
22	85.8125	0.4625	4579.2450	846.4581	0.1051	0.0194
23	85.8250	0.4750	4780.7100	904.9533	0.1098	0.0208
24	85.8375	0.4875	4982.1750	965.9670	0.1144	0.0222
25	85.8500	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	85.8625	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	85.8750	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	85.8875	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	85.9000	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	85.9125	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	85.9250	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	85.9375	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	85.9500	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	85.9625	0.6125	7900.6950	1761.8875	0.1814	0.0404

35	85.9750	0.6250	8265.5100	1862.9177	0.1897	0.0428
36	85.9875	0.6375	8630.3250	1968.5084	0.1981	0.0452
37	86.0000	0.6500	8995.1400	2078.6597	0.2065	0.0477
38	86.0125	0.6625	9359.9550	2193.3715	0.2149	0.0504
39	86.0250	0.6750	9724.7700	2312.6438	0.2233	0.0531
40	86.0375	0.6875	10089.5850	2436.4765	0.2316	0.0559
41	86.0500	0.7000	10454.4000	2564.8697	0.2400	0.0589
42	86.0750	0.7250	11287.4850	2836.5767	0.2591	0.0651
43	86.1000	0.7500	12120.5700	3129.1156	0.2782	0.0718
44	86.1250	0.7750	12953.6550	3442.4857	0.2974	0.0790
45	86.1500	0.8000	13786.7400	3776.6866	0.3165	0.0867
46	86.1750	0.8250	14619.8250	4131.7177	0.3356	0.0949
47	86.2000	0.8500	15452.9100	4507.5788	0.3548	0.1035
48	86.2250	0.8750	16285.9950	4904.2696	0.3739	0.1126
49	86.2500	0.9000	17119.0800	5321.7897	0.3930	0.1222
50	91.3900	6.0400	17119.0800	93313.8609	0.3930	2.1422

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| Variable storage data for node | B-15
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	85.9500	0.0000	4.3560	0.0000	0.0001	0.0000
2	85.9750	0.0250	150.8265	1.5068	0.0035	0.0000
3	86.0000	0.0500	297.2970	7.0058	0.0068	0.0002
4	86.0250	0.0750	443.7675	16.2082	0.0102	0.0004
5	86.0500	0.1000	590.2380	29.0898	0.0135	0.0007
6	86.0750	0.1250	736.7085	45.6428	0.0169	0.0010
7	86.1000	0.1500	883.1790	65.8638	0.0203	0.0015
8	86.1250	0.1750	1029.6495	89.7507	0.0236	0.0021
9	86.1500	0.2000	1176.1200	117.3026	0.0270	0.0027
10	86.1750	0.2250	1475.5950	150.3783	0.0339	0.0035
11	86.2000	0.2500	1775.0700	190.9540	0.0408	0.0044
12	86.2250	0.2750	2074.5450	239.0256	0.0476	0.0055
13	86.2500	0.3000	2374.0200	294.5906	0.0545	0.0068
14	86.2750	0.3250	2673.4950	357.6475	0.0614	0.0082
15	86.3000	0.3500	2972.9700	428.1952	0.0683	0.0098
16	86.3250	0.3750	3272.4450	506.2330	0.0751	0.0116
17	86.3500	0.4000	3571.9200	591.7602	0.0820	0.0136
18	86.3625	0.4125	3773.3850	637.6626	0.0866	0.0146
19	86.3750	0.4250	3974.8500	686.0836	0.0912	0.0158
20	86.3875	0.4375	4176.3150	737.0232	0.0959	0.0169
21	86.4000	0.4500	4377.7800	790.4814	0.1005	0.0181
22	86.4125	0.4625	4579.2450	846.4581	0.1051	0.0194
23	86.4250	0.4750	4780.7100	904.9533	0.1098	0.0208
24	86.4375	0.4875	4982.1750	965.9670	0.1144	0.0222
25	86.4500	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	86.4625	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	86.4750	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	86.4875	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	86.5000	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	86.5125	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	86.5250	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	86.5375	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	86.5500	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	86.5625	0.6125	7900.6950	1761.8875	0.1814	0.0404
35	86.5750	0.6250	8265.5100	1862.9177	0.1897	0.0428
36	86.5875	0.6375	8630.3250	1968.5084	0.1981	0.0452
37	86.6000	0.6500	8995.1400	2078.6597	0.2065	0.0477
38	86.6125	0.6625	9359.9550	2193.3715	0.2149	0.0504
39	86.6250	0.6750	9724.7700	2312.6438	0.2233	0.0531
40	86.6375	0.6875	10089.5850	2436.4765	0.2316	0.0559
41	86.6500	0.7000	10454.4000	2564.8697	0.2400	0.0589
42	86.6750	0.7250	11287.4850	2836.5767	0.2591	0.0651
43	86.7000	0.7500	12120.5700	3129.1156	0.2782	0.0718
44	86.7250	0.7750	12953.6550	3442.4857	0.2974	0.0790
45	86.7500	0.8000	13786.7400	3776.6866	0.3165	0.0867
46	86.7750	0.8250	14619.8250	4131.7177	0.3356	0.0949
47	86.8000	0.8500	15452.9100	4507.5788	0.3548	0.1035
48	86.8250	0.8750	16285.9950	4904.2696	0.3739	0.1126
49	86.8500	0.9000	17119.0800	5321.7897	0.3930	0.1222
50	92.2900	6.3400	17119.0800	98449.5849	0.3930	2.2601

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| Variable storage data for node | B-26
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	80.4640	0.0000	4.3560	0.0000	0.0001	0.0000
2	80.4890	0.0250	150.8265	1.5068	0.0035	0.0000
3	80.5140	0.0500	297.2970	7.0058	0.0068	0.0002
4	80.5390	0.0750	443.7675	16.2082	0.0102	0.0004
5	80.5640	0.1000	590.2380	29.0898	0.0135	0.0007
6	80.5890	0.1250	736.7085	45.6428	0.0169	0.0010
7	80.6140	0.1500	883.1790	65.8638	0.0203	0.0015
8	80.6390	0.1750	1029.6495	89.7507	0.0236	0.0021
9	80.6640	0.2000	1176.1200	117.3026	0.0270	0.0027
10	80.6890	0.2250	1475.5950	150.3783	0.0339	0.0035
11	80.7140	0.2500	1775.0700	190.9540	0.0408	0.0044
12	80.7390	0.2750	2074.5450	239.0256	0.0476	0.0055
13	80.7640	0.3000	2374.0200	294.5906	0.0545	0.0068
14	80.7890	0.3250	2673.4950	357.6475	0.0614	0.0082
15	80.8140	0.3500	2972.9700	428.1952	0.0683	0.0098
16	80.8390	0.3750	3272.4450	506.2330	0.0751	0.0116
17	80.8640	0.4000	3571.9200	591.7602	0.0820	0.0136
18	80.8765	0.4125	3773.3850	637.6626	0.0866	0.0146
19	80.8890	0.4250	3974.8500	686.0836	0.0912	0.0158
20	80.9015	0.4375	4176.3150	737.0232	0.0959	0.0169
21	80.9140	0.4500	4377.7800	790.4814	0.1005	0.0181
22	80.9265	0.4625	4579.2450	846.4581	0.1051	0.0194
23	80.9390	0.4750	4780.7100	904.9533	0.1098	0.0208
24	80.9515	0.4875	4982.1750	965.9670	0.1144	0.0222
25	80.9640	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	80.9765	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	80.9890	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	81.0015	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	81.0140	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	81.0265	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	81.0390	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	81.0515	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	81.0640	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	81.0765	0.6125	7900.6950	1761.8875	0.1814	0.0404
35	81.0890	0.6250	8265.5100	1862.9177	0.1897	0.0428
36	81.1015	0.6375	8630.3250	1968.5084	0.1981	0.0452
37	81.1140	0.6500	8995.1400	2078.6597	0.2065	0.0477
38	81.1265	0.6625	9359.9550	2193.3715	0.2149	0.0504
39	81.1390	0.6750	9724.7700	2312.6438	0.2233	0.0531
40	81.1515	0.6875	10089.5850	2436.4765	0.2316	0.0559
41	81.1640	0.7000	10454.4000	2564.8697	0.2400	0.0589
42	81.1890	0.7250	11287.4850	2836.5767	0.2591	0.0651
43	81.2140	0.7500	12120.5700	3129.1156	0.2782	0.0718
44	81.2390	0.7750	12953.6550	3442.4857	0.2974	0.0790
45	81.2640	0.8000	13786.7400	3776.6866	0.3165	0.0867
46	81.2890	0.8250	14619.8250	4131.7177	0.3356	0.0949
47	81.3140	0.8500	15452.9100	4507.5788	0.3548	0.1035
48	81.3390	0.8750	16285.9950	4904.2696	0.3739	0.1126

49	81.3640	0.9000	17119.0800	5321.7897	0.3930	0.1222
50	90.4900	10.0260	17119.0800	161550.5138	0.3930	3.7087

Variable storage data for node | MH-B4

Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	79.4800	0.0000	0.0000	0.0000	0.0000	0.0000
2	80.4537	0.9738	0.0000	0.0000	0.0000	0.0000
3	81.4275	1.9475	0.0000	0.0000	0.0000	0.0000
4	82.4013	2.9213	0.0000	0.0000	0.0000	0.0000
5	83.3750	3.8950	0.0000	0.0000	0.0000	0.0000
6	84.3488	4.8688	0.0000	0.0000	0.0000	0.0000
7	85.3225	5.8425	0.0000	0.0000	0.0000	0.0000
8	86.2963	6.8163	0.0000	0.0000	0.0000	0.0000
9	87.2700	7.7900	0.0000	0.0000	0.0000	0.0000
10	87.3950	7.9150	15899.4000	662.4750	0.3650	0.0152
11	87.5200	8.0400	31798.8000	3586.7811	0.7300	0.0823
12	87.6450	8.1650	47698.2000	8521.8818	1.0950	0.1956
13	87.7700	8.2900	63597.6000	15454.0876	1.4600	0.3548
14	87.8950	8.4150	79497.0000	24379.0408	1.8250	0.5597
15	88.0200	8.5400	95396.4000	35294.7908	2.1900	0.8103
16	88.1450	8.6650	111295.8000	48200.2945	2.5550	1.1065
17	88.2700	8.7900	127195.2000	63094.9285	2.9200	1.4485
18	88.3950	8.9150	128338.6500	79065.7408	2.9463	1.8151
19	88.5200	9.0400	129482.1000	95179.4849	2.9725	2.1850
20	88.6450	9.1650	130625.5500	111436.1606	2.9987	2.5582
21	88.7700	9.2900	131769.0000	127835.7681	3.0250	2.9347
22	88.8950	9.4150	132912.4500	144378.3073	3.0513	3.3145
23	89.0200	9.5400	134055.9000	161063.7781	3.0775	3.6975
24	89.1450	9.6650	135199.3500	177892.1807	3.1037	4.0838
25	89.2700	9.7900	136342.8000	194863.5149	3.1300	4.4735
26	89.6450	10.1650	136342.8000	245992.0649	3.1300	5.6472
27	90.0200	10.5400	136342.8000	297120.6149	3.1300	6.8210
28	90.3950	10.9150	136342.8000	348249.1649	3.1300	7.9947
29	90.7700	11.2900	136342.8000	399377.7149	3.1300	9.1685
30	91.1450	11.6650	136342.8000	450506.2649	3.1300	10.3422
31	91.5200	12.0400	136342.8000	501634.8149	3.1300	11.5160
32	91.8950	12.4150	136342.8000	552763.3649	3.1300	12.6897
33	92.2700	12.7900	136342.8000	603891.9149	3.1300	13.8635

FREE OUTFALL DATA (DATA GROUP I1)
BOUNDARY CONDITION ON DATA GROUP J1

Outfall at Junction....SYS-B-OUT has boundary condition number... 1

INTERNAL CONNECTIVITY INFORMATION

CONDUIT	JUNCTION	JUNCTION
FREE # 1	SYS-B-OUT	BOUNDARY

Boundary Condition Information
Data Groups J1-J4

XP Note Field Summary

Table E9 - JUNCTION SUMMARY STATISTICS
The Maximum area is only the area of the node, it does not include the area of the surrounding conduits

Junction Name	Ground Elevation feet	Uppermost PipeCrown Elevation feet	Maximum Junction Elevation feet	Time of Occurence Hr.	Min.	Feet of Surcharge at Max Elevation	Freeboard of node feet	Maximum Junction Area ft^2	Maximum Gutter Depth feet	Maximum Gutter Width feet	Maximum Gutter Velocity ft/s
B-OUT1	90.6500	90.5900	91.5720	23	46	0.9820	0.0000	12571.267	0.0000	0.0000	0.0000
B-12A	90.2900	85.6720	91.5721	23	46	5.9001	0.0000	18021.868	0.0000	0.0000	0.0000
B-12	90.3500	85.8400	91.5740	23	46	5.7340	0.0000	17004.088	0.0000	0.0000	0.0000
B-10	90.6600	86.2060	91.5752	23	46	5.3692	0.0000	12486.278	0.0000	0.0000	0.0000
B-9	90.7800	86.3500	91.5755	23	44	5.2255	0.0000	13637.959	0.0000	0.0000	0.0000
B-7	90.9000	86.5070	91.5762	23	43	5.0692	0.0000	9831.9296	0.0000	0.0000	0.0000
B-6	91.0300	86.6570	91.5763	23	44	4.9193	0.0000	8633.8943	0.0000	0.0000	0.0000
B-5	91.2200	86.8070	91.5764	23	42	4.7694	0.0000	7141.1257	0.0000	0.0000	0.0000
B-4	92.0200	87.0070	91.5765	23	42	4.5695	0.4435	12.5660	0.0000	0.0000	0.0000
B-3	92.7200	87.1820	91.5765	23	42	4.3945	1.1435	12.5660	0.0000	0.0000	0.0000
B-22	90.2400	85.3720	91.5729	23	57	6.2009	0.0000	17119.080	0.0000	0.0000	0.0000
B-24	90.1800	85.6390	91.5738	23	53	5.9348	0.0000	20151.148	0.0000	0.0000	0.0000
B-OUT3	92.2100	91.0900	91.5974	23	46	0.5074	0.6126	12.5660	0.0000	0.0000	0.0000
B-20	91.7500	88.2580	91.5976	23	46	3.3396	0.1524	12.5660	0.0000	0.0000	0.0000
B-19	91.3900	88.3500	91.5968	23	45	3.2468	0.0000	1257.0409	0.0000	0.0000	0.0000
B-18	92.2000	88.4750	91.5969	23	47	3.1219	0.6031	12.5660	0.0000	0.0000	0.0000
B-17	92.9000	88.7750	91.5969	23	47	2.8219	1.3031	12.5660	0.0000	0.0000	0.0000
B-16	92.5500	88.8750	91.5970	23	47	2.7220	0.9530	12.5660	0.0000	0.0000	0.0000
B-15	92.2900	88.9500	91.5969	23	46	2.6469	0.6931	12.5660	0.0000	0.0000	0.0000
B-14	92.6100	89.0000	91.5970	23	47	2.5970	1.0130	12.5660	0.0000	0.0000	0.0000
B-13	93.5900	89.1500	91.5969	23	46	2.4469	1.9931	12.5660	0.0000	0.0000	0.0000
B-25	91.1400	83.3640	91.5978	23	51	8.2338	0.0000	7902.6975	0.0000	0.0000	0.0000
B-26	90.4900	83.4640	91.5982	23	51	8.1342	0.0000	17119.080	0.0000	0.0000	0.0000
B-27	90.6600	83.5140	91.5982	23	50	8.0842	0.0000	12777.270	0.0000	0.0000	0.0000
B-28	91.1000	83.6390	91.6363	17	9	7.9973	0.0000	8548.6364	0.0000	0.0000	0.0000
MH-B3	91.3800	83.7180	91.7408	17	8	8.0228	0.0000	7172.4795	0.0000	0.0000	0.0000
MH-B2	91.3800	83.7600	91.7939	17	7	8.0339	0.0000	7563.4344	0.0000	0.0000	0.0000
MH-B1	92.2900	83.9200	92.5049	17	57	8.5849	0.0000	6458.1554	0.0000	0.0000	0.0000
SYS-B-OUT	90.5000	90.1600	91.5500	23	44	1.3900	0.0000	14288.256	0.0000	0.0000	0.0000
MH-B4	91.0000	90.4800	91.5665	23	46	1.0865	0.0000	12.5660	0.0000	0.0000	0.0000
MH-B5	91.0000	90.6700	91.5762	23	46	0.9062	0.0000	8896.5324	0.0000	0.0000	0.0000
MH-B6	91.5000	91.0100	91.5929	23	46	0.5829	0.0000	5486.5935	0.0000	0.0000	0.0000
MH-B8	93.7300	93.7200	91.9055	23	31	0.0000	1.8245	12.5660	0.0000	0.0000	0.0000
MH-B7	94.8000	94.1800	91.5815	23	46	0.0000	3.2185	12.5660	0.0000	0.0000	0.0000

Table E10 - CONDUIT SUMMARY STATISTICS
Note: The peak flow may be less than the design flow and the conduit may still surcharge because of the downstream boundary conditions.

* denotes an open conduit that has been overtopped
this is a potential source of severe errors

Conduit Name	Design Flow (cfs)	Conduit Design Velocity (ft/s)	Maximum Vertical Depth (in)	Maximum Computed Flow (cfs)	Time of Occurence Hr.	Time of Occurence Min.	Maximum Computed Velocity (ft/s)	Time of Occurence Hr.	Time of Occurence Min.	Ratio of Max. to Design Flow	Maximum Water Elev at Pipe Ends Upstream (ft)	Maximum Water Elev at Pipe Ends Dwnstrm (ft)	Ratio d/D US	Ratio d/D DS	
L_L-B-12A	56.6994	3.7800	36.0000	59.9642	16	15	3.9721	16	15	1.0576	91.5721	91.5720	2.967	2.971	
L_L-B-12	51.9409	3.4627	36.0000	53.8632	16	15	3.5677	16	15	1.0370	91.5740	91.5721	2.911	2.967	
L_L-B-10	39.1268	3.2606	36.0000	46.6985	16	15	3.8659	16	15	1.1935	91.5752	91.5740	2.790	2.911	
L_L-B-9	39.1930	3.2661	36.0000	41.0766	16	15	3.4000	16	15	1.0481	91.5755	91.5752	2.742	2.790	
L_L-B-7	39.1901	3.2658	36.0000	30.2383	16	15	2.5030	16	15	0.7716	91.5762	91.5755	2.690	2.742	
L_L-B-6	26.8550	2.9839	36.0000	24.7038	16	15	2.7267	16	15	0.9199	91.5763	91.5762	2.640	2.690	
L_L-B-5	21.1000	2.9850	36.0000	19.1687	16	15	2.6892	16	15	0.9085	91.5764	91.5763	2.590	2.640	
L_L-B-4	12.9779	2.6438	30.0000	12.2316	16	15	2.4671	16	15	0.9425	91.5765	91.5764	2.828	2.908	
L_L-B-3	7.1568	2.2781	24.0000	6.0288	16	15	1.8956	16	15	0.8424	91.5765	91.5765	3.197	3.285	
L_L-B-22	18.3621	3.7407	30.0000	15.2855	16	15	3.0799	16	15	0.8324	91.5729	91.5720	3.480	3.565	
L_L-B-24	10.1197	3.2212	24.0000	8.0686	30	36	2.5314	30	36	0.7973	91.5738	91.5729	3.967	4.100	
L_L-B-20	39.1528	3.2627	36.0000	42.6625	16	15	3.5464	16	15	1.0896	91.5976	91.5974	2.113	2.158	
L_L-B-19	39.1656	3.2638	36.0000	35.8031	16	15	2.9761	16	15	0.9141	91.5968	91.5976	2.082	2.117	
L_L-B-18	26.8560	2.9840	36.0000	28.1271	16	15	3.1174	16	15	1.0473	91.5969	91.5968	2.041	2.082	
L_L-B-17	26.8633	2.9848	36.0000	21.8999	16	15	2.4275	16	15	0.8152	91.5969	91.5969	1.941	2.041	
L_L-B-16	26.8550	2.9839	36.0000	17.4392	16	15	1.9332	16	15	0.6494	91.5970	91.5969	1.907	1.941	
L_L-B-15	21.0644	2.9800	36.0000	13.8418	16	15	1.9527	16	15	0.6571	91.5969	91.5970	1.882	1.907	
L_L-B-14	12.9828	2.6448	30.0000	9.2834	16	15	2.7388	15	32	0.7151	91.5970	91.5969	2.039	2.059	
L_L-B-13	7.1478	2.2752	24.0000	3.7476	16	15	2.3595	15	41	0.5243	91.5969	91.5970	2.223	2.298	
L_L-B-25	51.9146	3.4610	36.0000	81.2785	16	15	5.3586	16	15	1.5656	91.5978	91.5974	3.745	3.831	
L_L-B-26	51.8991	3.4599	36.0000	74.3141	16	15	4.8977	16	15	1.4319	91.5982	91.5978	3.711	3.745	
L_L-B-27	52.0145	3.4676	36.0000	68.8301	16	15	4.5357	16	15	1.3233	91.5982	91.5982	3.695	3.711	
L_L-B-28	39.1404	3.2617	36.0000	64.2493	16	15	5.2913	16	15	1.6415	91.6363	91.5982	3.666	3.695	
L_L-MH-B3	39.0447	3.2537	36.0000	56.1712	16	24	4.6228	16	24	1.4386	91.7408	91.6363	3.674	3.666	
L_L-MH-B2	39.3584	3.2799	36.0000	56.1779	16	24	4.6229	16	24	1.4273	91.7939	91.7408	3.678	3.674	
L_L-MH-B1	24.8279	3.5124	36.0000	56.5295	16	29	7.8625	16	29	2.2769	92.5048	91.7939	3.862	3.678	
L_L-MH-B8	989.6303	3.9700	118.3200	549.9670	17	32	6.1871	14	21	0.5557	91.9055	91.5815	0.816	0.852	
L_L-B-OUT3	1823.451	3.8551	132.0000	610.1579	17	17	1.8812	15	26	0.3346	91.5974	91.5929	1.046	1.053	*
L_L-MH-B6	1831.549	3.8722	132.0000	608.6821	17	17	1.7675	11	21	0.3323	91.5929	91.5762	1.053	1.082	*
L_L-MH-B5	1758.692	3.7182	132.0000	608.7032	17	17	1.8075	10	52	0.3461	91.5762	91.5720	1.082	1.089	*
L_L-B-OUT1	1831.796	3.8727	132.0000	633.2949	16	32	1.8484	10	41	0.3457	91.5720	91.5665	1.089	1.099	*
L_L-MH-B4	1795.610	3.7962	132.0000	630.3744	16	48	2.3808	8	47	0.3511	91.5665	91.5500	1.099	1.126	*
L_L-MH-B7	16893.60	35.7158	132.0000	554.0560	17	41	4.3821	15	20	0.0328	91.5815	91.5974	0.764	1.046	*
FREE # 1	Undefnd	Undefnd	Undefn	630.3746	16	48									

Table E14 - Natural Channel Overbank Flow Information

Conduit Name	Maximum Velocity <---- Left Velocity	Maximum Velocity <---- Center Velocity	Maximum Velocity <---- Right Velocity	Maximum Flow <---- Left Flow	Maximum Flow <---- Center Flow	Maximum Flow <---- Right Flow	Maximum Area <---- Left Area	Maximum Area <---- Center Area	Maximum Area <---- Right Area	Max. Storage Volume <--- Left Area	Max. Storage Volume <--- Center Area	Max. Storage Volume <--- Right Area	Maximum Depth
L_L-MH-B8	0.0000	4.2171	0.3213	0.0000	549.2331	0.7339	0.0000	130.2395	2.2838	0.0000	26829.327	493.2977	8.2418

Table E14a - Natural Channel Encroachment Information

Conduit Name	Existing Conveyance Condition <---- Left Bank	Existing Conveyance Condition <---- Centre Channel	Existing Conveyance Condition <---- Right Bank	Existing Conveyance Condition <---- Total	Encroachment Conveyance Condition <----- Left Station	Encroachment Conveyance Condition <----- Right Station	Encroachment Conveyance Condition <----- Left Bank	Encroachment Conveyance Condition <----- Centre Channel	Encroachment Conveyance Condition <----- Right Bank	Encroachment Conveyance Condition <----- Total	% Volume --> Left Station	% Volume --> Right Station	Encroachment Data --> Reduction Left	Encroachment Data --> Reduction Right	Encroachment Data --> Depth Incr.	Encroachment Data --> Method
L_L-MH-B8	0.0000	12229.8	16.341	12246.2	109.75	156.65	0.0000	12229.8	16.341	12246.2	109.75	156.65	0.0000	0.0000	0.0000	None

Table E14b - Floodplain Mapping

Conduit Name	Upstream WS Elev.	Downstream WS Elev.	Channel Length	Center Station	Left Offsets <----- Natural	Left Offsets <----- Encroach	Left Offsets <----- Bank	Right Offsets <----- Natural	Right Offsets <----- Encroach	Right Offsets <----- Bank	Channel Widths-> Total	Channel Widths-> Encroach.
L_L-MH-B8	91.9055	91.5815	206.0000	125.0600	15.3129	15.3129	17.4200	31.5919	31.5919	12.2600	46.9048	46.9048

Table E15 - SPREADSHEET INFO LIST

Conduit Flow and Junction Depth Information for use in spreadsheets. The maximum values in this table are the true maximum values because they sample every time step. The values in the review results may only be the maximum of a subset of all the time steps in the run. Note: These flows are only the flows in a single barrel.

Conduit Name	Maximum Flow (cfs)	Total Flow (ft^3)	Maximum Velocity (ft/s)	Maximum Volume (ft^3)	##	Junction Name	Invert Elevation (ft)	Maximum Elevation (ft)
L_L-B-12A	59.9642	289323.5702	3.9721	152.5247	##	B-OUT1	79.5900	91.5720
L_L-B-12	53.8632	260209.3565	3.5677	2544.4474	##	B-12A	82.6720	91.5721
L_L-B-10	46.6985	224150.9135	3.8659	4437.0622	##	B-12	82.8400	91.5740
L_L-B-9	41.0766	197238.0718	3.4000	1738.7898	##	B-10	83.2060	91.5752
L_L-B-7	30.2383	145676.3479	2.5030	1895.5906	##	B-9	83.3500	91.5755
L_L-B-6	24.7038	119884.1374	2.7267	1361.4057	##	B-7	83.5070	91.5762
L_L-B-5	19.1687	94025.4151	2.6892	1110.6725	##	B-6	83.6570	91.5763
L_L-B-4	12.2316	59332.0665	2.4671	1028.0574	##	B-5	83.8070	91.5764
L_L-B-3	6.0288	29066.4588	1.8956	575.8620	##	B-4	84.5070	91.5765
L_L-B-22	15.2855	74886.5971	3.0799	544.3589	##	B-3	85.1820	91.5765
L_L-B-24	8.0686	30045.0140	2.5314	439.4425	##	B-22	82.8720	91.5729
L_L-B-20	42.6625	207733.8581	3.5464	1616.2828	##	B-24	83.6390	91.5738
L_L-B-19	35.8031	173191.0122	2.9761	1229.2524	##	B-OUT3	80.0900	91.5974
L_L-B-18	28.1271	133877.2984	3.1174	1131.0062	##	B-20	85.2480	91.5976
L_L-B-17	21.8999	103737.1491	2.4275	2712.3659	##	B-19	85.3500	91.5968
L_L-B-16	17.4392	82278.6517	1.9332	904.2329	##	B-18	85.4750	91.5969
L_L-B-15	13.8418	65063.9556	1.9527	557.2147	##	B-17	85.7750	91.5969
L_L-B-14	9.2834	43475.5121	2.7388	256.8188	##	B-16	85.8750	91.5970
L_L-B-13	3.7476	17405.2434	2.3595	494.8475	##	B-15	85.9500	91.5969
L_L-B-25	81.2785	682938.2356	5.3586	3943.4567	##	B-14	86.5000	91.5970

L_L-B-26	74.3141	648395.1543	4.8977	1522.8349	##	B-13	87.1500	91.5969
L_L-B-27	68.8301	622859.2090	4.5357	757.9177	##	B-25	80.3640	91.5978
L_L-B-28	64.2493	601652.5298	5.2913	1520.2106	##	B-26	80.4640	91.5982
L_L-MH-B3	56.1712	561272.9149	4.6228	965.3538	##	B-27	80.5140	91.5982
L_L-MH-B2	56.1779	559105.4353	4.6229	505.0967	##	B-28	80.6390	91.6363
L_L-MH-B1	56.5295	556477.4060	7.8625	855.6517	##	MH-B3	80.7180	91.7408
L_L-MH-B8	549.9670	24509263.03	6.1871	27322.6248	##	MH-B2	80.7600	91.7939
L_L-B-OUT3	610.1579	25400143.85	1.8812	37840.0000	##	MH-B1	80.9200	92.5049
L_L-MH-B6	608.6821	25401301.94	1.7675	159401.0000	##	SYS-B-OUT	79.1600	91.5500
L_L-MH-B5	608.7032	25395225.11	1.8075	40678.0000	##	MH-B4	79.4800	91.5665
L_L-B-OUT1	633.2949	25757228.18	1.8484	51557.0000	##	MH-B5	79.6700	91.5762
L_L-MH-B4	630.3744	25752780.02	2.3808	156090.0000	##	MH-B6	80.0100	91.5929
L_L-MH-B7	554.0560	24509316.73	4.3821	14257.3510	##	MH-B8	83.8600	91.9055
FREE # 1	630.3746	25752851.79	0.0000	0.0000	##	MH-B7	83.1800	91.5815

Table E15a - SPREADSHEET REACH LIST

Peak flow and Total Flow listed by Reach or those conduits or diversions having the same upstream and downstream nodes.

Upstream Node	Downstream Node	Maximum Flow (cfs)	Total Flow (ft^3)
B-12A	B-OUT1	59.9642	289323.570
B-12	B-12A	53.8632	260209.356
B-10	B-12	46.6985	224150.913
B-9	B-10	41.0766	197238.072
B-7	B-9	30.2383	145676.348
B-6	B-7	24.7038	119884.137
B-5	B-6	19.1687	94025.4151
B-4	B-5	12.2316	59332.0665
B-3	B-4	6.0288	29066.4588
B-22	B-OUT1	15.2855	74886.5971
B-24	B-22	8.0686	30045.0140
B-20	B-OUT3	42.6625	207733.858
B-19	B-20	35.8031	173191.012
B-18	B-19	28.1271	133877.298
B-17	B-18	21.8999	103737.149
B-16	B-17	17.4392	82278.6517
B-15	B-16	13.8418	65063.9556
B-14	B-15	9.2834	43475.5121
B-13	B-14	3.7476	17405.2434
B-25	B-OUT3	81.2785	682938.236
B-26	B-25	74.3141	648395.154
B-27	B-26	68.8301	622859.209
B-28	B-27	64.2493	601652.530
MH-B3	B-28	56.1712	561272.915
MH-B2	MH-B3	56.1779	559105.435
MH-B1	MH-B2	56.5295	556477.406
MH-B8	MH-B7	549.9670	24509263.0
B-OUT3	MH-B6	610.1579	25400143.9
MH-B6	MH-B5	608.6821	25401301.9
MH-B5	B-OUT1	608.7032	25395225.1
B-OUT1	MH-B4	633.2949	25757228.2
MH-B4	SYS-B-OUT	630.3744	25752780.0
MH-B7	B-OUT3	554.0560	24509316.7

Table E19 - Junction Inflow & Outflow Listing
Units are either ft^3 or m^3 depending on the units in your model.

Junction Name	Constant Inflow to Node	User Inflow to Node	Interface Inflow to Node	DWF Inlow to Node	Inflow through Outfall	RNF Layer Inflow to Node	Outflow from Node	Evaporation from Node	Inflow from 2D Layer
B-12A	0.0000	29322.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
B-12	0.0000	36288.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
B-10	0.0000	27018.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
B-9	0.0000	51606.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
B-7	0.0000	25857.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	

B-6	0.0000	25938.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
B-5	0.0000	34659.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
B-4	0.0000	30285.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
B-3	0.0000	29070.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
B-22	0.0000	44532.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
B-24	0.0000	28890.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
B-20	0.0000	34488.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
B-19	0.0000	39330.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
B-18	0.0000	30159.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
B-17	0.0000	21501.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
B-16	0.0000	17226.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
B-15	0.0000	21573.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
B-14	0.0000	26055.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
B-13	0.0000	17460.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
B-25	0.0000	34902.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
B-26	0.0000	26136.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
B-27	0.0000	21780.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
B-28	0.0000	40986.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
MH-B1	0.0000	490194.0900	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
SYS-B-OUT	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	25.7529E+06	0.0000
MH-B8	0.0000	24.5079E+06	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Table E20 - Junction Flooding and Volume Listing. The maximum volume is the total volume in the node including the volume in the flooded storage area. This is the max volume at any time. The volume in the flooded storage area is the total volume above the ground elevation, where the flooded pond storage area starts. The fourth column is instantaneous, the fifth is the sum of the flooded volume over the entire simulation. Units are either ft^3 or m^3 depending on the units.

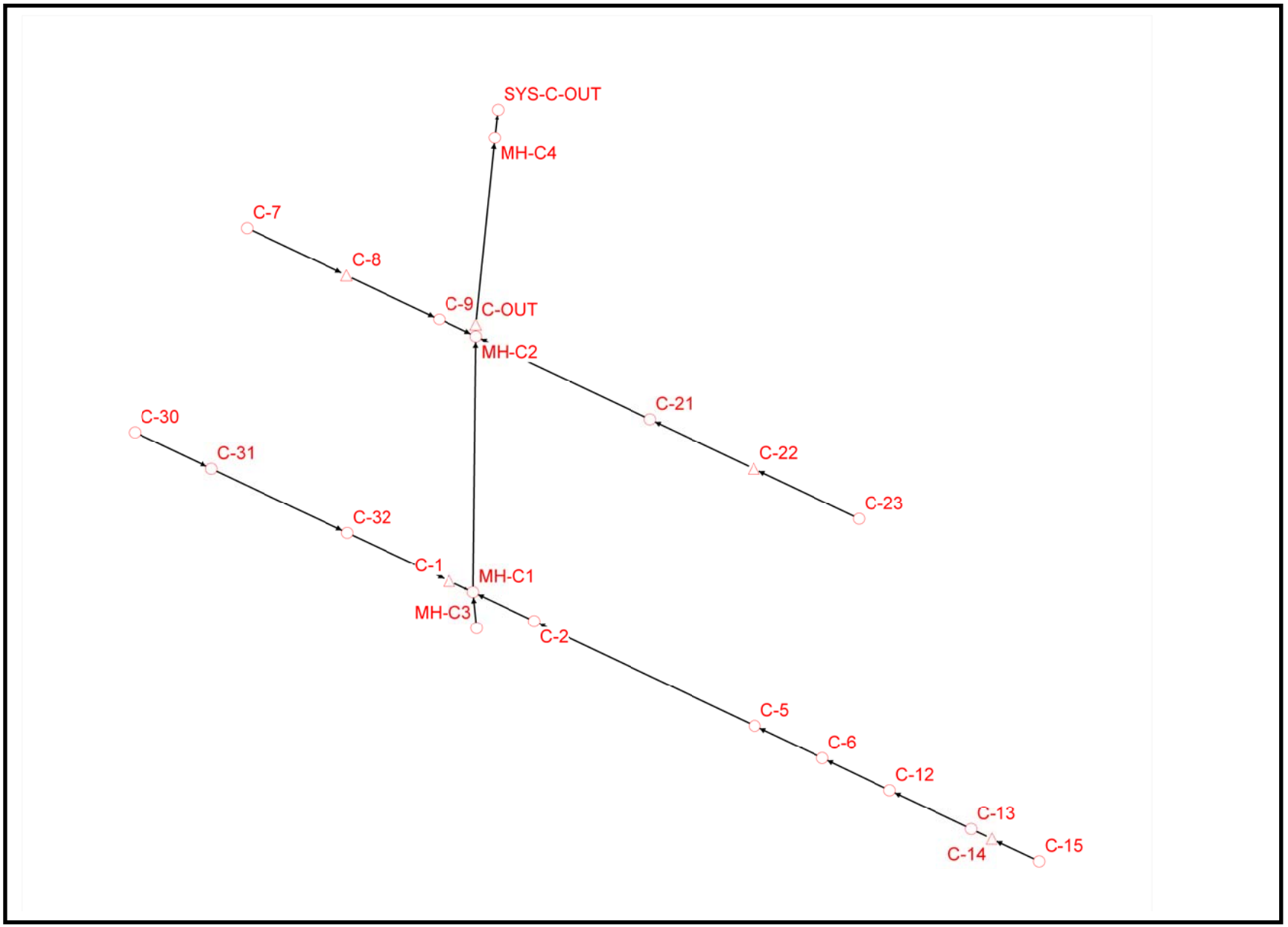
Junction Name	Surcharged Time (min)	Flooded Time(min)	Out of 1D-System (Flooded Volume)	Maximum Volume	Passed to 2D cell OR Volume Stored in allowed Flood Pond of 1D-System
B-OUT1	770.1667	757.7250	0.0000	7710.2468	16198.6578
B-12A	1048.4500	818.3250	0.0000	13117.5954	13956.2603
B-12	1041.2917	813.4250	0.0000	12098.4585	13230.0895
B-10	1026.7417	768.8833	0.0000	7579.9453	8514.3772
B-9	1020.4583	739.0000	0.0000	3808.8536	4197.8912
B-7	1014.8250	704.9167	0.0000	4924.8300	5637.5053
B-6	1008.9000	655.3250	0.0000	3726.5434	4694.4740
B-5	1004.9000	298.6250	0.0000	2234.2774	2441.9928
B-4	998.3583	0.0000	0.0000	88.8349	0.0000
B-3	993.2500	0.0000	0.0000	80.3529	0.0000
B-22	1061.6833	825.5917	0.0000	12824.5336	13953.6031
B-24	1049.9000	857.0167	0.0000	15233.3420	17926.7469
B-OUT3	597.3833	0.0000	0.0000	144.6020	0.0000
B-20	953.3167	0.0000	0.0000	79.7895	0.0000
B-19	950.8083	191.5583	0.0000	201.4180	141.7209
B-18	948.4583	0.0000	0.0000	76.9281	0.0000
B-17	938.9500	0.0000	0.0000	73.1580	0.0000
B-16	935.9833	0.0000	0.0000	71.9021	0.0000
B-15	932.5333	0.0000	0.0000	70.9585	0.0000
B-14	931.4333	0.0000	0.0000	64.0485	0.0000
B-13	924.2083	0.0000	0.0000	55.8803	0.0000
B-25	1189.4500	606.5750	0.0000	3038.1088	6348.7667
B-26	1180.5333	803.8000	0.0000	9012.5227	17875.9176
B-27	1176.4500	775.0417	0.0000	7904.7650	15652.4036
B-28	1166.8000	639.5667	0.0000	3680.0894	18560.6374
MH-B3	1160.9333	342.0333	0.0000	2306.4582	26374.2347
MH-B2	1157.9000	348.2333	0.0000	2696.8853	52396.4070
MH-B1	1146.6500	118.1500	0.0000	1601.0308	11636.4764
SYS-B-OUT	833.5917	0.0000	0.0000	9430.7540	22.5940
MH-B4	790.9083	631.9083	0.0000	144.7603	11720.8875
MH-B5	753.3083	638.1750	0.0000	4038.9052	16372.1839
MH-B6	640.5417	122.9333	0.0000	630.9768	2511.0130
MH-B8	0.0000	0.0000	0.0000	101.0995	0.0000

```
         MH-B7        0.0000     0.0000       0.0000    105.5735              0.0000


*==================================*
| Simulation Specific Information  |
*==================================*
Number of Input Conduits..........        33 Number of Simulated Conduits......        34
Number of Natural Channels........         1 Number of Junctions...............        34
Number of Storage Junctions.......         6 Number of Weirs...................         0
Number of Orifices................         0 Number of Pumps...................         0
Number of Free Outfalls...........         1 Number of Tide Gate Outfalls......         0


*==========================================================*
| Average % Change in Junction or Conduit is defined as:   |
| Conduit  % Change ==> 100.0 ( Q(n+1) - Q(n) ) / Qfull    |
| Junction % Change ==> 100.0 ( Y(n+1) - Y(n) ) / Yfull    |
*==========================================================*

The Conduit with the largest average change was..L_L-MH-B7  with    27.367 percent
The Junction with the largest average change was.MH-B1     with     0.298 percent
The Conduit with the largest sinuosity was.......L_L-MH-B1  with   446.498


*=========================================================================*
| Table E21. Continuity balance at the end of the simulation              |
|            Junction Inflow, Outflow or Street Flooding                  |
| Error = Inflow  + Initial Volume - Outflow - Final   Volume             |
*=========================================================================*

       Inflow          Inflow       Average
       Junction   Volume,ft^3   Inflow, cfs
--------------  ------------  -------------
          B-12A    29321.9999         0.1697

           B-12    36287.9999         0.2100

           B-10    27017.9999         0.1564

            B-9    51605.9999         0.2986

            B-7    25856.9999         0.1496

            B-6    25937.9999         0.1501

            B-5    34658.9999         0.2006

            B-4    30284.9999         0.1753

            B-3    29069.9999         0.1682

          B-22    44531.9999         0.2577

          B-24    28889.9999         0.1672

          B-20    34487.9999         0.1996

          B-19    39329.9999         0.2276

          B-18    30158.9999         0.1745

          B-17    21500.9999         0.1244

          B-16    17226.0000         0.0997

          B-15    21572.9999         0.1248

          B-14    26054.9999         0.1508

          B-13    17460.0000         0.1010

          B-25    34901.9999         0.2020

          B-26    26135.9999         0.1512

          B-27    21779.9999         0.1260

          B-28    40985.9999         0.2372

         MH-B1   490195.6858         2.8368

         MH-B8  24.50793E+06       141.8283

      SYS-B-OUT   -25.753E+06      -149.0327


       Outflow      Outflow          Average
       Junction  Volume,ft^3    Outflow, cfs
--------------  ------------   ------------
      SYS-B-OUT  25.75285E+06       149.0327


*=====================================================*

| Initial system volume        =         0.0000 Cu Ft |

| Total system inflow volume   =  25.693155E+06 Cu Ft |

| Inflow + Initial volume      =  25.693155E+06 Cu Ft |

*=====================================================*

| Total system outflow         =  25.752852E+06 Cu Ft |

| Volume left in system        =       967.0900 Cu Ft |

| Evaporation                  =         0.0000 Cu Ft |

| Outflow + Final Volume       =  25.753819E+06 Cu Ft |

*=====================================================*


*=============================================*
| Total Model Continuity Error                |
| Error in Continuity, Percent =      -0.2145 |
| Error in Continuity, ft^3    =   -55110.367 |
| + Error means a continuity loss, - a gain   |
*=============================================*

#####################################################
# Table E22. Numerical Model judgement section      #
#####################################################

Your overall error was                                  -0.2145 percent
```

```
Worst nodal error was in node MH-B1            with        -6.3210 percent

Of the total inflow this loss was                           0.2575 percent

Your overall continuity error was                 Excellent

                                                 Excellent Efficiency

Efficiency of the simulation                       1.70

Most Number of Non Convergences at one Node        0.

Total Number Non Convergences at all Nodes         0.

Total Number of Nodes with Non Convergences        0.


===> Hydraulic model simulation ended normally.
===> XP-SWMM Simulation ended normally.


===> Your input file was named  : P:\PROJECTS\290PMC\PHASEII\DRA\Models\SWMM\Outfalls 9-16\SWMM\Report 6-2011\Mitigated\US290_Mit_SegB_SysB.DAT
===> Your output file was named : P:\PROJECTS\290PMC\PHASEII\DRA\Models\SWMM\Outfalls 9-16\SWMM\Report 6-2011\Mitigated\US290_Mit_SegB_SysB.out

*============================================================*
|            SWMM Simulation Date and Time Summary           |
*============================================================*
| Starting Date... June       24, 2011  Time...   12:42:25:56  |
|   Ending Date... June       24, 2011  Time...   12:53: 7:74  |
|  Elapsed Time...   10.70300 minutes or    642.18000 seconds  |
*============================================================*
```

OUTFALL 12
SWMM OUTPUT
100 YR- MITIGATED CONDITIONS

OUTFALL 12
MITIGATED CONDITIONS SWMM LAYOUT



```
 Current Directory:   C:\XPS\xpstorm
 Engine Name: C:\XPS\xpstorm\SWMMEN~1.EXE


 Input File : Outfalls 9-16\SWMM\Report 6-2011\Mitigated\US290_Mit_SegB_SysC.XP

          *================================================*
          |                     xpswmm                     |
          |     Storm and Wastewater Management Model      |
          |           Interface Version: 10.52             |
          |              Engine Version: 10.54             |
          |================================================|
          |                                                |
          |                 Developed by                   |
          |                                                |
          |                 XP Software                    |
          |                                                |
          |================================================|
          |      XP Software       November, 2006          |
          |       Data File Version --->    11.9           |
          |       Serial Number: 66-1052-0602              |
          |                H & H Resources                 |
          *================================================*

Engine Name: C:\XPS\xpstorm\SWMMEN~1.EXE


*====================================================*
|       Input and Output file names by Layer         |
*====================================================*

 Input File  to Layer #     1 JOT.US
 Output File to Layer #     1 JOT.US

*============================================================*
|   Special command line arguments in XP-SWMM2000. This     |
|   now includes program defaults. $Keywords are the program|
|   defaults.  Other Keywords are from the SWMMCOM.CFG file.|
|   or the command line or any cfg file on the command line.|
|   Examples include these in the file xpswm.bat under the   |
|   section :solve or in the windows version XPSWMM32 in the|
|   file solve.bat                                           |
|                                                            |
|   Note: the cfg file should be in the subdirectory swmxp   |
|         or defined by the set variable in the xpswm.bat    |
|         file.  Some examples of the command lines possible|
|         are shown below:                                   |
|                                                            |
|   swmmd swmmcom.cfg                                        |
|   swmmd my.cfg                                             |
|   swmmd nokeys nconv5 perv extranwq                        |
*============================================================*

 $powerstation                        0.0000         1         2
 $perv                                0.0000         0         4
 $oldegg                              0.0000         0         7
 $as                                  0.0000         0        11
 $noflat                              0.0000         0        21
 $oldomega                            0.0000         0        24
 $oldvol                              0.0000         1        28
 $implicit                            0.0000         1        29
 $oldhot                              0.0000         1        31
 $oldscs                              0.0000         0        33
 $flood                               0.0000         1        40
 $nokeys                              0.0000         0        42
 $pzero                               0.0000         0        55
 $oldvol2                             0.0000         2        59
 $storage2                            0.0000         3        62
 $oldhot1                             0.0000         1        63
 $pumpwt                              0.0000         1        70
 $ecloss                              0.0000         1        77
 $exout                               0.0000         0        97
 SPATIAL=0.55                         0.5500         5       124
 $djref = -1.0                       -0.1000         3       143
 $weirlen = 50                       50.0000         1       153
 $oldbnd                              0.0000         1       154
 $nogrelev                            0.0000         1       161
 $ncmid                               0.0000         0       164
 $new_nl_97                           0.0000         2       290
 $best97                              0.0000         1       294
 $newbound                            0.0000         1       295
 $q_tol = 0.01                        0.0001         1       316
 $new_storage                         0.0000         1       322
 $old_iteration                       0.0000         1       333
 MINLEN=10                           10.0000         1       346
 $review_elevation                    0.0000         1       383
 $use_half_volume                     0.0000         1       385
 $min_ts = 0.5                        0.5000         1       407
 $design_restart = on                 0.0000         1       412
 $zero_value=1.e-05                   0.0000         1       415
 $relax_depth = on                    0.0000         1       427
 $saveallpts = on                     0.0000         1       434

 *============================================================*
 | Parameter Values on the Tapes Common Block.These are the |
 | values read from the data file and dynamically allocated |
 | by the model for this simulation.                        |
 *============================================================*

  Number of Subcatchments in the Runoff Block (NW)....     0
  Number of Channel/Pipes in the Runoff Block (NG)....     0
  Runoff Water quality constituents (NRQ).............     0
  Runoff Land Uses per Subcatchment (NLU).............     0
  Number of Elements in the Transport Block (NET).....     0
  Number of Storage Junctions in Transport (NTSE).....     0
  Number of Input Hydrographs in Transport (NTH)......     0
  Number of Elements in the Extran Block (NEE)........    23
  Number of Groundwater Subcatchments in Runoff (NGW).     0
  Number of Interface locations for all Blocks (NIE)..    23
  Number of Pumps in Extran (NEP).....................     0
  Number of Orifices in Extran (NEO)..................     0
  Number of Tide Gates/Free Outfalls in Extran (NTG)..     1
  Number of Extran Weirs (NEW)........................     0
  Number of scs hydrograph points.....................     1
  Number of Extran printout locations (NPO)...........     0
  Number of Tide elements in Extran (NTE).............     1
  Number of Natural channels (NNC)....................     2
  Number of Storage junctions in Extran (NVSE)........     5
  Number of Time history data points in Extran(NTVAL).   300
  Number of Variable storage elements in Extran (NVST)     7
  Number of Input Hydrographs in Extran (NEH).........    18
  Number of Particle sizes in Transport Block (NPS)...     0
  Number of User defined conduits (NHW)...............    23
  Number of Connecting conduits in Extran (NECC)......    20
  Number of Upstream elements in Transport (NTCC).....    10
  Number of Storage/treatment plants (NSTU)...........     1
```

```
 Number of Values for R1 lines in Transport (NR1)....     0
 Number of Nodes to be allowed for (NNOD)............    23
 Number of Plugs in a Storage Treatment Unit.........     1


####################################################
#    Entry made to the HYDRAULIC Layer(Block) of SWMM #
#    Last Updated June,2005 by XP Software          #

    US 290/ Hempstead Highway Corridor - From W.Little York to Hollister
    Drainage Impact & Mitigation Study - Existing Conditions - SegB_SysA -1


*==========================================================*
|        HYDRAULICS TABLES IN THE OUTPUT FILE              |
|  These are the more important tables in the output file.  |
|  You can use your editor to find the table numbers,       |
|  for example: search for Table E20 to check continuity.   |
|  This output file can be imported into a Word Processor   |
|  and printed on US letter or A4 paper using portrait      |
|  mode, courier font, a size of 8 pt. and margins of 0.75  |
|                                                           |
| Table E1   - Basic Conduit Data                           |
| Table E2   - Conduit Factor Data                          |
| Table E3a  - Junction Data                                |
| Table E3b  - Junction Data                                |
| Table E4   - Conduit Connectivity Data                    |
| Table E4a  - Dry Weather Flow Data                        |
| Table E4b  - Real Time Control Data                       |
| Table E5   - Junction Time Step Limitation Summary        |
| Table E5a  - Conduit Explicit Condition Summary           |
| Table E6   - Final Model Condition                        |
| Table E7   - Iteration Summary                            |
| Table E8   - Junction Time Step Limitation Summary        |
| Table E9   - Junction  Summary  Statistics                |
| Table E10  - Conduit   Summary  Statistics                |
| Table E11  - Area assumptions used in the analysis        |
| Table E12  - Mean conduit information                     |
| Table E13  - Channel losses(H) and culvert info           |
| Table E13a - Culvert Analysis Classification              |
| Table E14  - Natural Channel Overbank Flow Information    |
| Table E14a - Natural Channel Encroachment Information     |
| Table E14b - Floodplain Mapping                           |
| Table E15  - Spreadsheet Info List                        |
| Table E15a - Spreadsheet Reach List                       |
| Table E16  - New Conduit Output Section                   |
| Table E17  - Pump Operation                               |
| Table E18  - Junction Continuity Error                    |
| Table E19  - Junction Inflow & Outflow Listing            |
| Table E20  - Junction Flooding and Volume List            |
| Table E21  - Continuity balance at simulation end         |
| Table E22  - Model Judgement Section                      |
*==========================================================*

Time Control from Hydraulics Job Control
Year.........    1995 Month.......       1
Day..........       1 Hour........       0
Minute.......       0 Second......       0


Control information for simulation
----------------------------------

Integration cycles..................    172800
Length of integration step is......      1.00 seconds
Simulation length...................     48.00 hours
Do not create equiv. pipes(NEQUAL).         0
Use U.S. customary units for I/O...         0
Printing starts in cycle...........         1
Intermediate printout intervals of.       500 cycles
Intermediate printout intervals of.      8.33 minutes
Summary printout intervals of......       500 cycles
Summary printout time interval of..      8.33 minutes
Hot start file parameter (REDO)....         0
Initial time.......................      0.00 hours

Iteration variables: Flow Tolerance.   0.00010
                     Head Tolerance.   0.00010
    Minimum depth (m or ft).........   0.00001
    Underrelaxation parameter.......   0.85000
    Time weighting parameter........   0.85000
    Conduit roughness factor........   1.00000
    Flow adjustment factor..........   1.00000
    Initial Condition Smoothing.....         0
    Courant Time Step Factor........   1.00000
    Default Expansion/Contraction K.   0.00000
    Default Entrance/Exit K.........   0.00000
    Routing Method..................   Dynamic Wave
Default surface area of junctions...     12.57 square feet.
Minimum Junction/Conduit Depth......   0.00001 feet.
Ponding Area Coefficient............   5000.00
Ponding Area Exponent...............    1.0000
Minimum Orifice Length..............    500.00 feet.
NJSW input hydrograph junctions.....    18
     or user defined hydrographs....

        Natural Cross-Section information for Channel L_L-C-OUT
        =======================================================
         Cross-Section ID (from X1 card) :     1.0 Channel sequence number :     1

  Left Overbank Length   :    250.0 ft               Maximum Elevation        :    88.14 ft.
  Main Channel Length    :    250.0 ft               Maximum Depth            :     8.50 ft.
  Right Overbank Length  :    250.0 ft               Maximum Section Area     : 267.7500 ft^2
                                                     Maximum hydraulic radius :     4.48 ft.
  Manning N :      0.050  to Station         195.2    Max topwidth             :    57.00 ft.
    "    "  :      0.035  in main Channel            Maximum Wetted Perimeter : 5.98E+01 ft
    "    "  :      0.050  Beyond station     260.3    Max left bank area       :     0.00 ft^2
                                                     Max right bank area      :     0.00 ft^2
  Allowable Encroachment Depth :    0.00 ft          Max center channel area  : 267.7500 ft^2

        Natural Cross-Section information for Channel L-MH-C4
        =====================================================
         Cross-Section ID (from X1 card) :     2.0 Channel sequence number :     2

  Left Overbank Length   :     50.0 ft               Maximum Elevation        :    88.14 ft.
  Main Channel Length    :     50.0 ft               Maximum Depth            :     8.50 ft.
  Right Overbank Length  :     50.0 ft               Maximum Section Area     : 267.7500 ft^2
                                                     Maximum hydraulic radius :     4.48 ft.
  Manning N :      0.050  to Station         195.2    Max topwidth             :    57.00 ft.
    "    "  :      0.035  in main Channel            Maximum Wetted Perimeter : 5.98E+01 ft
    "    "  :      0.050  Beyond station     260.3    Max left bank area       :     0.00 ft^2
                                                     Max right bank area      :     0.00 ft^2
  Allowable Encroachment Depth :    0.00 ft          Max center channel area  : 267.7500 ft^2

*================================================*
|          Table E1 - Conduit Data               |
*================================================*
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Inp Num	Conduit Name	Length (ft)	Conduit Class	Area (ft^2)	Manning Coef.	Max Width (ft)	Depth (ft)	Trapezoid Side Slopes
1	L_L-MH-C2	15.5420	Rectangle	15.0000	0.0130	5.0000	3.0000	
2	L_L-C-9	53.8300	Circular	7.0686	0.0130	3.0000	3.0000	
3	L_L-C-21	256.5420	Circular	7.0686	0.0130	3.0000	3.0000	
4	L_L-MH-C1	340.2450	Rectangle	15.0000	0.0130	5.0000	3.0000	
5	L_L-C-8	136.5790	Circular	4.9087	0.0130	2.5000	2.5000	
6	L_L-C-22	153.0500	Circular	7.0686	0.0130	3.0000	3.0000	
7	L_L-C-1	34.9050	Circular	7.0686	0.0130	3.0000	3.0000	
8	L_L-C-2	90.0870	Rectangle	12.0000	0.0130	4.0000	3.0000	
9	L_L-MH-C3	48.1390	Circular	15.9043	0.0130	4.5000	4.5000	
10	L_L-C-7	146.4200	Circular	3.1416	0.0130	2.0000	2.0000	
11	L_L-C-23	155.6860	Circular	3.1416	0.0130	2.0000	2.0000	
12	L_L-C-32	150.1490	Circular	4.9087	0.0130	2.5000	2.5000	
13	L_L-C-5	324.8590	Rectangle	12.0000	0.0130	4.0000	3.0000	
14	L_L-C-31	200.0000	Circular	3.1416	0.0130	2.0000	2.0000	
15	L_L-C-6	99.9140	Rectangle	12.0000	0.0130	4.0000	3.0000	
16	L_L-C-30	112.9750	Circular	3.1416	0.0130	2.0000	2.0000	
17	L_L-C-12	100.0860	Rectangle	12.0000	0.0130	4.0000	3.0000	
18	L_L-C-13	120.0000	Rectangle	9.0000	0.0130	3.0000	3.0000	
19	L_L-C-14	30.1490	Rectangle	9.0000	0.0130	3.0000	3.0000	
20	L_L-C-15	69.8520	Circular	7.0686	0.0130	3.0000	3.0000	
21	L_L-C-OUT	250.0000	Natural	267.7500	0.0350	57.0000	8.5000	
22	L-MH-C4	50.0000	Natural	267.7500	0.0350	57.0000	8.5000	

Total length of all conduits .... 2939.0090 feet

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| Table E2 - Conduit Factor Data |
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Conduit Name	Number of Barrels	Entrance Loss Coef	Exit Loss Coef	Exp/Contc Coefficnt	Time Weighting Parameter	Low Flow Roughness Factor	Depth at Which n Changes	Flow Routing
L_L-MH-C2	2.0000	0.0000	0.0000	0.0000	0.8500	1.0000	0.0000	Standard - Dynamic Wave
L_L-MH-C1	2.0000	0.0000	0.0000	0.0000	0.8500	1.0000	0.0000	Standard - Dynamic Wave

==========
| If there are messages about (sqrt(g*d)*dt/dx), or |
| the sqrt(wave celerity)*time step/conduit length |
| in the output file all it means is that the |
| program will lower the internal time step to |
| satisfy this condition (explicit condition). |
| You control the actual internal time step by |
| using the minimum courant time step factor in the |
| HYDRAULICS job control. The message put in words |
| states that the smallest conduit with the fastest |
| velocity will control the time step selection. |
| You have further control by using the modify |
| conduit option in the HYDRAULICS Job Control. |
==========

Conduit Name	Courant Ratio
L_L-MH-C2	0.63
L_L-C-9	0.18
L_L-C-21	0.04
L_L-MH-C1	0.03
L_L-C-8	0.07
L_L-C-22	0.06
L_L-C-1	0.28
L_L-C-2	0.11
L_L-MH-C3	0.25
L_L-C-7	0.05
L_L-C-23	0.05
L_L-C-32	0.06
L_L-C-5	0.03
L_L-C-31	0.04
L_L-C-6	0.10
L_L-C-30	0.07
L_L-C-12	0.10
L_L-C-13	0.08
L_L-C-14	0.33
L_L-C-15	0.14
L_L-C-OUT	0.05
L-MH-C4	0.25

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| Conduit Volume |
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Full pipe or full open conduit volume
Input full depth volume..... 1.0251E+05 cubic feet

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| Table E3a - Junction Data |
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Inp Num	Junction Name	Ground Elevation	Crown Elevation	Invert Elevation	Qinst cfs	Initial Depth-ft	Interface Flow (%)
1	C-OUT	90.3200	90.3200	79.6400	0.0000	0.0000	100.0000
2	MH-C2	89.8900	85.1190	79.6790	0.0000	0.0000	100.0000
3	C-9	89.9400	89.9400	82.2270	0.0000	0.0000	100.0000
4	C-21	89.7000	89.7000	82.3470	0.0000	0.0000	100.0000
5	MH-C1	89.7800	89.7800	80.5300	0.0000	0.0000	100.0000
6	C-8	90.0000	90.0000	83.0000	0.0000	0.0000	100.0000
7	C-22	89.5900	89.5900	82.5000	0.0000	0.0000	100.0000
8	C-1	89.8100	89.8100	82.0000	0.0000	0.0000	100.0000
9	C-2	89.7200	89.7200	80.6250	0.0000	0.0000	100.0000
10	MH-C3	90.3900	90.3900	80.6500	0.0000	0.0000	100.0000
11	C-7	90.0600	90.0600	83.7930	0.0000	0.0000	100.0000
12	C-23	89.4700	89.4700	83.6560	0.0000	0.0000	100.0000
13	C-32	89.9200	89.9200	82.8000	0.0000	0.0000	100.0000
14	C-5	89.4700	89.4700	80.9500	0.0000	0.0000	100.0000
15	C-31	90.3600	90.3600	83.7000	0.0000	0.0000	100.0000
16	C-6	89.3900	89.3900	81.0500	0.0000	0.0000	100.0000
17	C-30	91.1000	91.1000	83.9260	0.0000	0.0000	100.0000
18	C-12	89.3200	89.3200	81.1500	0.0000	0.0000	100.0000
19	C-13	89.2300	89.2300	81.2700	0.0000	0.0000	100.0000
20	C-14	89.2100	89.2100	81.3000	0.0000	0.0000	100.0000
21	C-15	89.0800	89.0800	81.3700	0.0000	0.0000	100.0000
22	SYS-C-OUT	89.0000	89.0000	79.3400	0.0000	0.0000	100.0000
23	MH-C4	89.0000	89.0000	79.3900	0.0000	0.0000	100.0000

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| Table E3b - Junction Data |
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Inp Num	Junction Name	X Coord.	Y Coord.	Type of Manhole	Type of Inlet	Maximum Capacity	Pavement Shape	Pavement Slope

1	C-OUT	3.068552E+06	13.87937E+06		F	Normal	0	0.0000
2	MH-C2	3.068552E+06	13.87936E+06			Normal	0	0.0000
3	C-9	3.068503E+06	13.87938E+06		F	Normal	0	0.0000
4	C-21	3.068784E+06	13.87925E+06		F	Normal	0	0.0000
5	MH-C1	3.068548E+06	13.87902E+06		F	Normal	0	0.0000
6	C-8	3.068380E+06	13.87944E+06		F	Normal	0	0.0000
7	C-22	3.068922E+06	13.87918E+06		F	Normal	0	0.0000
8	C-1	3.068516E+06	13.87903E+06		F	Normal	0	0.0000
9	C-2	3.068629E+06	13.87898E+06		F	Normal	0	0.0000
10	MH-C3	3.068553E+06	13.87897E+06		F	Normal	0	0.0000
11	C-7	3.068247E+06	13.87950E+06		F	Normal	0	0.0000
12	C-23	3.069063E+06	13.87912E+06		F	Normal	0	0.0000
13	C-32	3.068381E+06	13.87910E+06		F	Normal	0	0.0000
14	C-5	3.068923E+06	13.87884E+06		F	Normal	0	0.0000
15	C-31	3.068200E+06	13.87918E+06		F	Normal	0	0.0000
16	C-6	3.069013E+06	13.87880E+06		F	Normal	0	0.0000
17	C-30	3.068098E+06	13.87923E+06		F	Normal	0	0.0000
18	C-12	3.069104E+06	13.87876E+06		F	Normal	0	0.0000
19	C-13	3.069212E+06	13.87870E+06		F	Normal	0	0.0000
20	C-14	3.069239E+06	13.87869E+06		F	Normal	0	0.0000
21	C-15	3.069303E+06	13.87866E+06		F	Normal	0	0.0000
22	SYS-C-OUT	3.068581E+06	13.87966E+06		F	Normal	0	0.0000
23	MH-C4	3.068577E+06	13.87962E+06		F	Normal	0	0.0000

Table E4 - Conduit Connectivity

Input Number	Conduit Name	Upstream Node	Downstream Node	Upstream Elevation	Downstream Elevation	
1	L_L-MH-C2	MH-C2	C-OUT	79.6790	79.6400	No Design
2	L_L-C-9	C-9	MH-C2	82.2270	82.1190	No Design
3	L_L-C-21	C-21	MH-C2	82.3470	82.0900	No Design
4	L_L-MH-C1	MH-C1	MH-C2	80.5400	79.6790	No Design
5	L_L-C-8	C-8	C-9	83.0000	82.7270	No Design
6	L_L-C-22	C-22	C-21	82.5000	82.3470	No Design
7	L_L-C-1	C-1	MH-C1	82.0000	81.9300	No Design
8	L_L-C-2	C-2	MH-C1	80.6250	80.5350	No Design
9	L_L-MH-C3	MH-C3	MH-C1	80.6500	80.5400	No Design
10	L_L-C-7	C-7	C-8	83.7930	83.5000	No Design
11	L_L-C-23	C-23	C-22	83.6560	83.5000	No Design
12	L_L-C-32	C-32	C-1	82.8000	82.5000	No Design
13	L_L-C-5	C-5	C-2	80.9500	80.6250	No Design
14	L_L-C-31	C-31	C-32	83.7000	83.3000	No Design
15	L_L-C-6	C-6	C-5	81.0500	80.9500	No Design
16	L_L-C-30	C-30	C-31	83.9260	83.7000	No Design
17	L_L-C-12	C-12	C-6	81.1500	81.0500	No Design
18	L_L-C-13	C-13	C-12	81.2700	81.1500	No Design
19	L_L-C-14	C-14	C-13	81.3000	81.2700	No Design
20	L_L-C-15	C-15	C-14	81.3700	81.3000	No Design
21	L_L-C-OUT	C-OUT	MH-C4	79.6400	79.3900	No Design
22	L-MH-C4	MH-C4	SYS-C-OUT	79.3900	79.3400	No Design

Storage Junction Data

STORAGE JUNCTION NUMBER OR NAME	JUNCTION TYPE	MAXIMUM OR CONSTANT SURFACE AREA (FT2)	PEAK OR CONSTANT VOLUME (CUBIC FEET)	CROWN ELEVATION (FT)	DEPTH STARTS FROM
C-OUT	Stage/Area	260488.8000	2.650747E+06	90.3200	Spill Crest
C-8	Stage/Area	17119.0800	109748.1777	90.0000	Spill Crest
C-22	Stage/Area	17119.0800	111288.8949	89.5900	Spill Crest
C-1	Stage/Area	17119.0800	123614.6325	89.8100	Spill Crest
C-14	Stage/Area	17119.0800	125326.5405	89.2100	Spill Crest

Variable storage data for node | C-OUT

Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	79.6400	0.0000	0.0000	0.0000	0.0000	0.0000
2	79.7650	0.1250	32561.1000	1356.7125	0.7475	0.0311
3	79.8900	0.2500	65122.2000	7345.5312	1.4950	0.1686
4	80.0150	0.3750	97683.3000	17452.3471	2.2425	0.4007
5	80.1400	0.5000	130244.4000	31649.1245	2.9900	0.7266
6	80.2650	0.6250	162805.5000	49926.9398	3.7375	1.1462
7	80.3900	0.7500	195366.6000	72281.7977	4.4850	1.6594
8	80.5150	0.8750	227927.7000	98711.5621	5.2325	2.2661
9	80.6400	1.0000	260488.8000	129214.9563	5.9800	2.9664
10	81.2650	1.6250	260488.8000	292020.4563	5.9800	6.7039
11	81.8900	2.2500	260488.8000	454825.9563	5.9800	10.4414
12	82.5150	2.8750	260488.8000	617631.4563	5.9800	14.1789
13	83.1400	3.5000	260488.8000	780436.9563	5.9800	17.9164
14	83.7650	4.1250	260488.8000	943242.4563	5.9800	21.6539
15	84.3900	4.7500	260488.8000	1.106048E+06	5.9800	25.3914
16	85.0150	5.3750	260488.8000	1.268853E+06	5.9800	29.1289
17	85.6400	6.0000	260488.8000	1.431659E+06	5.9800	32.8664
18	90.3200	10.6800	260488.8000	2.650747E+06	5.9800	60.8528

Variable storage data for node | C-8

Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	83.0000	0.0000	4.3560	0.0000	0.0001	0.0000
2	83.0250	0.0250	150.8265	1.5068	0.0035	0.0000
3	83.0500	0.0500	297.2970	7.0058	0.0068	0.0002
4	83.0750	0.0750	443.7675	16.2082	0.0102	0.0004
5	83.1000	0.1000	590.2380	29.0898	0.0135	0.0007
6	83.1250	0.1250	736.7085	45.6428	0.0169	0.0010
7	83.1500	0.1500	883.1790	65.8638	0.0203	0.0015
8	83.1750	0.1750	1029.6495	89.7507	0.0236	0.0021
9	83.2000	0.2000	1176.1200	117.3026	0.0270	0.0027
10	83.2250	0.2250	1475.5950	150.3783	0.0339	0.0035
11	83.2500	0.2500	1775.0700	190.9540	0.0408	0.0044
12	83.2750	0.2750	2074.5450	239.0256	0.0476	0.0055
13	83.3000	0.3000	2374.0200	294.5906	0.0545	0.0068
14	83.3250	0.3250	2673.4950	357.6475	0.0614	0.0082
15	83.3500	0.3500	2972.9700	428.1952	0.0683	0.0098
16	83.3750	0.3750	3272.4450	506.2330	0.0751	0.0116
17	83.4000	0.4000	3571.9200	591.7602	0.0820	0.0136
18	83.4125	0.4125	3773.3850	637.6626	0.0866	0.0146
19	83.4250	0.4250	3974.8500	686.0836	0.0912	0.0158
20	83.4375	0.4375	4176.3150	737.0232	0.0959	0.0169
21	83.4500	0.4500	4377.7800	790.4814	0.1005	0.0181
22	83.4625	0.4625	4579.2450	846.4581	0.1051	0.0194
23	83.4750	0.4750	4780.7100	904.9533	0.1098	0.0208
24	83.4875	0.4875	4982.1750	965.9670	0.1144	0.0222
25	83.5000	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	83.5125	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	83.5250	0.5250	5771.7000	1166.4244	0.1325	0.0268

28	83.5375	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	83.5500	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	83.5625	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	83.5750	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	83.5875	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	83.6000	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	83.6125	0.6125	7900.6950	1761.8875	0.1814	0.0404
35	83.6250	0.6250	8265.5100	1862.9177	0.1897	0.0428
36	83.6375	0.6375	8630.3250	1968.5084	0.1981	0.0452
37	83.6500	0.6500	8995.1400	2078.6597	0.2065	0.0477
38	83.6625	0.6625	9359.9550	2193.3715	0.2149	0.0504
39	83.6750	0.6750	9724.7700	2312.6438	0.2233	0.0531
40	83.6875	0.6875	10089.5850	2436.4765	0.2316	0.0559
41	83.7000	0.7000	10454.4000	2564.8697	0.2400	0.0589
42	83.7250	0.7250	11287.4850	2836.5767	0.2591	0.0651
43	83.7500	0.7500	12120.5700	3129.1156	0.2782	0.0718
44	83.7750	0.7750	12953.6550	3442.4857	0.2974	0.0790
45	83.8000	0.8000	13786.7400	3776.6866	0.3165	0.0867
46	83.8250	0.8250	14619.8250	4131.7177	0.3356	0.0949
47	83.8500	0.8500	15452.9100	4507.5788	0.3548	0.1035
48	83.8750	0.8750	16285.9950	4904.2696	0.3739	0.1126
49	83.9000	0.9000	17119.0800	5321.7897	0.3930	0.1222
50	90.0000	7.0000	17119.0800	109748.1777	0.3930	2.5195

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| Variable storage data for node | C-22
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	82.5000	0.0000	4.3560	0.0000	0.0001	0.0000
2	82.5250	0.0250	150.8265	1.5068	0.0035	0.0000
3	82.5500	0.0500	297.2970	7.0058	0.0068	0.0002
4	82.5750	0.0750	443.7675	16.2082	0.0102	0.0004
5	82.6000	0.1000	590.2380	29.0898	0.0135	0.0007
6	82.6250	0.1250	736.7085	45.6428	0.0169	0.0010
7	82.6500	0.1500	883.1790	65.8638	0.0203	0.0015
8	82.6750	0.1750	1029.6495	89.7507	0.0236	0.0021
9	82.7000	0.2000	1176.1200	117.3026	0.0270	0.0027
10	82.7250	0.2250	1475.5950	150.3783	0.0339	0.0035
11	82.7500	0.2500	1775.0700	190.9540	0.0408	0.0044
12	82.7750	0.2750	2074.5450	239.0256	0.0476	0.0055
13	82.8000	0.3000	2374.0200	294.5906	0.0545	0.0068
14	82.8250	0.3250	2673.4950	357.6475	0.0614	0.0082
15	82.8500	0.3500	2972.9700	428.1952	0.0683	0.0098
16	82.8750	0.3750	3272.4450	506.2330	0.0751	0.0116
17	82.9000	0.4000	3571.9200	591.7602	0.0820	0.0136
18	82.9125	0.4125	3773.3850	637.6626	0.0866	0.0146
19	82.9250	0.4250	3974.8500	686.0836	0.0912	0.0158
20	82.9375	0.4375	4176.3150	737.0232	0.0959	0.0169
21	82.9500	0.4500	4377.7800	790.4814	0.1005	0.0181
22	82.9625	0.4625	4579.2450	846.4581	0.1051	0.0194
23	82.9750	0.4750	4780.7100	904.9533	0.1098	0.0208
24	82.9875	0.4875	4982.1750	965.9670	0.1144	0.0222
25	83.0000	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	83.0125	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	83.0250	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	83.0375	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	83.0500	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	83.0625	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	83.0750	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	83.0875	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	83.1000	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	83.1125	0.6125	7900.6950	1761.8875	0.1814	0.0404
35	83.1250	0.6250	8265.5100	1862.9177	0.1897	0.0428
36	83.1375	0.6375	8630.3250	1968.5084	0.1981	0.0452
37	83.1500	0.6500	8995.1400	2078.6597	0.2065	0.0477
38	83.1625	0.6625	9359.9550	2193.3715	0.2149	0.0504
39	83.1750	0.6750	9724.7700	2312.6438	0.2233	0.0531
40	83.1875	0.6875	10089.5850	2436.4765	0.2316	0.0559
41	83.2000	0.7000	10454.4000	2564.8697	0.2400	0.0589
42	83.2250	0.7250	11287.4850	2836.5767	0.2591	0.0651
43	83.2500	0.7500	12120.5700	3129.1156	0.2782	0.0718
44	83.2750	0.7750	12953.6550	3442.4857	0.2974	0.0790
45	83.3000	0.8000	13786.7400	3776.6866	0.3165	0.0867
46	83.3250	0.8250	14619.8250	4131.7177	0.3356	0.0949
47	83.3500	0.8500	15452.9100	4507.5788	0.3548	0.1035
48	83.3750	0.8750	16285.9950	4904.2696	0.3739	0.1126
49	83.4000	0.9000	17119.0800	5321.7897	0.3930	0.1222
50	89.5900	7.0900	17119.0800	111288.8949	0.3930	2.5548

==================================
| Variable storage data for node | C-1
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	82.0000	0.0000	4.3560	0.0000	0.0001	0.0000
2	82.0250	0.0250	150.8265	1.5068	0.0035	0.0000
3	82.0500	0.0500	297.2970	7.0058	0.0068	0.0002
4	82.0750	0.0750	443.7675	16.2082	0.0102	0.0004
5	82.1000	0.1000	590.2380	29.0898	0.0135	0.0007
6	82.1250	0.1250	736.7085	45.6428	0.0169	0.0010
7	82.1500	0.1500	883.1790	65.8638	0.0203	0.0015
8	82.1750	0.1750	1029.6495	89.7507	0.0236	0.0021
9	82.2000	0.2000	1176.1200	117.3026	0.0270	0.0027
10	82.2250	0.2250	1475.5950	150.3783	0.0339	0.0035
11	82.2500	0.2500	1775.0700	190.9540	0.0408	0.0044
12	82.2750	0.2750	2074.5450	239.0256	0.0476	0.0055
13	82.3000	0.3000	2374.0200	294.5906	0.0545	0.0068
14	82.3250	0.3250	2673.4950	357.6475	0.0614	0.0082
15	82.3500	0.3500	2972.9700	428.1952	0.0683	0.0098
16	82.3750	0.3750	3272.4450	506.2330	0.0751	0.0116
17	82.4000	0.4000	3571.9200	591.7602	0.0820	0.0136
18	82.4125	0.4125	3773.3850	637.6626	0.0866	0.0146
19	82.4250	0.4250	3974.8500	686.0836	0.0912	0.0158
20	82.4375	0.4375	4176.3150	737.0232	0.0959	0.0169
21	82.4500	0.4500	4377.7800	790.4814	0.1005	0.0181
22	82.4625	0.4625	4579.2450	846.4581	0.1051	0.0194
23	82.4750	0.4750	4780.7100	904.9533	0.1098	0.0208
24	82.4875	0.4875	4982.1750	965.9670	0.1144	0.0222
25	82.5000	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	82.5125	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	82.5250	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	82.5375	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	82.5500	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	82.5625	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	82.5750	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	82.5875	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	82.6000	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	82.6125	0.6125	7900.6950	1761.8875	0.1814	0.0404
35	82.6250	0.6250	8265.5100	1862.9177	0.1897	0.0428
36	82.6375	0.6375	8630.3250	1968.5084	0.1981	0.0452
37	82.6500	0.6500	8995.1400	2078.6597	0.2065	0.0477
38	82.6625	0.6625	9359.9550	2193.3715	0.2149	0.0504
39	82.6750	0.6750	9724.7700	2312.6438	0.2233	0.0531
40	82.6875	0.6875	10089.5850	2436.4765	0.2316	0.0559
41	82.7000	0.7000	10454.4000	2564.8697	0.2400	0.0589

42	82.7250	0.7250	11287.4850	2836.5767	0.2591	0.0651
43	82.7500	0.7500	12120.5700	3129.1156	0.2782	0.0718
44	82.7750	0.7750	12953.6550	3442.4857	0.2974	0.0790
45	82.8000	0.8000	13786.7400	3776.6866	0.3165	0.0867
46	82.8250	0.8250	14619.8250	4131.7177	0.3356	0.0949
47	82.8500	0.8500	15452.9100	4507.5788	0.3548	0.1035
48	82.8750	0.8750	16285.9950	4904.2696	0.3739	0.1126
49	82.9000	0.9000	17119.0800	5321.7897	0.3930	0.1222
50	89.8100	7.8100	17119.0800	123614.6325	0.3930	2.8378

Variable storage data for node | C-14

Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	81.3000	0.0000	4.3560	0.0000	0.0001	0.0000
2	81.3250	0.0250	150.8265	1.5068	0.0035	0.0000
3	81.3500	0.0500	297.2970	7.0058	0.0068	0.0002
4	81.3750	0.0750	443.7675	16.2082	0.0102	0.0004
5	81.4000	0.1000	590.2380	29.0898	0.0135	0.0007
6	81.4250	0.1250	736.7085	45.6428	0.0169	0.0010
7	81.4500	0.1500	883.1790	65.8638	0.0203	0.0015
8	81.4750	0.1750	1029.6495	89.7507	0.0236	0.0021
9	81.5000	0.2000	1176.1200	117.3026	0.0270	0.0027
10	81.5250	0.2250	1475.5950	150.3783	0.0339	0.0035
11	81.5500	0.2500	1775.0700	190.9540	0.0408	0.0044
12	81.5750	0.2750	2074.5450	239.0256	0.0476	0.0055
13	81.6000	0.3000	2374.0200	294.5906	0.0545	0.0068
14	81.6250	0.3250	2673.4950	357.6475	0.0614	0.0082
15	81.6500	0.3500	2972.9700	428.1952	0.0683	0.0098
16	81.6750	0.3750	3272.4450	506.2330	0.0751	0.0116
17	81.7000	0.4000	3571.9200	591.7602	0.0820	0.0136
18	81.7125	0.4125	3773.3850	637.6626	0.0866	0.0146
19	81.7250	0.4250	3974.8500	686.0836	0.0912	0.0158
20	81.7375	0.4375	4176.3150	737.0232	0.0959	0.0169
21	81.7500	0.4500	4377.7800	790.4814	0.1005	0.0181
22	81.7625	0.4625	4579.2450	846.4581	0.1051	0.0194
23	81.7750	0.4750	4780.7100	904.9533	0.1098	0.0208
24	81.7875	0.4875	4982.1750	965.9670	0.1144	0.0222
25	81.8000	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	81.8125	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	81.8250	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	81.8375	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	81.8500	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	81.8625	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	81.8750	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	81.8875	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	81.9000	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	81.9125	0.6125	7900.6950	1761.8875	0.1814	0.0404
35	81.9250	0.6250	8265.5100	1862.9177	0.1897	0.0428
36	81.9375	0.6375	8630.3250	1968.5084	0.1981	0.0452
37	81.9500	0.6500	8995.1400	2078.6597	0.2065	0.0477
38	81.9625	0.6625	9359.9550	2193.3715	0.2149	0.0504
39	81.9750	0.6750	9724.7700	2312.6438	0.2233	0.0531
40	81.9875	0.6875	10089.5850	2436.4765	0.2316	0.0559
41	82.0000	0.7000	10454.4000	2564.8697	0.2400	0.0589
42	82.0250	0.7250	11287.4850	2836.5767	0.2591	0.0651
43	82.0500	0.7500	12120.5700	3129.1156	0.2782	0.0718
44	82.0750	0.7750	12953.6550	3442.4857	0.2974	0.0790
45	82.1000	0.8000	13786.7400	3776.6866	0.3165	0.0867
46	82.1250	0.8250	14619.8250	4131.7177	0.3356	0.0949
47	82.1500	0.8500	15452.9100	4507.5788	0.3548	0.1035
48	82.1750	0.8750	16285.9950	4904.2696	0.3739	0.1126
49	82.2000	0.9000	17119.0800	5321.7897	0.3930	0.1222
50	89.2100	7.9100	17119.0800	125326.5405	0.3930	2.8771

FREE OUTFALL DATA (DATA GROUP I1)
BOUNDARY CONDITION ON DATA GROUP J1

Outfall at Junction....SYS-C-OUT has boundary condition number... 1

INTERNAL CONNECTIVITY INFORMATION

CONDUIT	JUNCTION	JUNCTION
FREE # 1	SYS-C-OUT	BOUNDARY

Boundary Condition Information
Data Groups J1-J4

XP Note Field Summary

Table E9 - JUNCTION SUMMARY STATISTICS
The Maximum area is only the area of the node, it does not include the area of the surrounding conduits

Junction Name	Ground Elevation feet	Uppermost PipeCrown Elevation feet	Maximum Junction Elevation feet	Time of Occurence Hr.	Min.	Feet of Surcharge at Max Elevation	Freeboard of node feet	Maximum Junction Area ft^2	Maximum Gutter Depth feet	Maximum Gutter Width feet	Maximum Gutter Velocity ft/s
C-OUT	90.3200	88.1400	91.0949	24	46	2.9549	0.0000	201842.73	0.0000	0.0000	0.0000
MH-C2	89.8900	85.1190	91.0942	24	46	5.9752	0.0000	12.5660	0.0000	0.0000	0.0000
C-9	89.9400	85.2270	91.0969	24	47	5.8699	0.0000	15899.973	0.0000	0.0000	0.0000
C-21	89.7000	85.3470	91.0886	24	51	5.7416	0.0000	20045.670	0.0000	0.0000	0.0000
MH-C1	89.7800	85.0400	91.2058	17	13	6.1658	0.0000	20806.437	0.0000	0.0000	0.0000
C-8	90.0000	85.5000	91.1035	24	49	5.6035	0.0000	17119.080	0.0000	0.0000	0.0000
C-22	89.5900	85.5000	91.0930	24	52	5.5930	0.0000	17119.080	0.0000	0.0000	0.0000
C-1	89.8100	85.0000	91.2095	17	13	6.2095	0.0000	17119.080	0.0000	0.0000	0.0000
C-2	89.7200	83.6250	91.2179	17	14	7.5929	0.0000	22361.933	0.0000	0.0000	0.0000
MH-C3	90.3900	85.1500	91.4392	16	59	6.2892	0.0000	14277.121	0.0000	0.0000	0.0000
C-7	90.0600	85.7930	91.1108	24	52	5.3178	0.0000	14299.937	0.0000	0.0000	0.0000
C-23	89.4700	85.6560	91.0996	24	58	5.4436	0.0000	25507.992	0.0000	0.0000	0.0000
C-32	89.9200	85.3000	91.2249	17	16	5.9249	0.0000	18437.137	0.0000	0.0000	0.0000
C-5	89.4700	83.9500	91.2657	17	25	7.3157	0.0000	30119.366	0.0000	0.0000	0.0000
C-31	90.3600	85.7000	91.2436	17	19	5.5436	0.0000	12097.773	0.0000	0.0000	0.0000
C-6	89.3900	84.0500	91.2838	17	28	7.2338	0.0000	33223.310	0.0000	0.0000	0.0000
C-30	91.1000	85.9260	91.2892	28	30	5.3632	0.0000	6244.5192	0.0000	0.0000	0.0000
C-12	89.3200	84.1500	91.3019	17	31	7.1519	0.0000	36282.770	0.0000	0.0000	0.0000
C-13	89.2300	84.2700	91.3455	17	34	7.0755	0.0000	41468.654	0.0000	0.0000	0.0000
C-14	89.2100	84.3000	91.3555	17	34	7.0555	0.0000	17119.080	0.0000	0.0000	0.0000
C-15	89.0800	84.3700	91.3898	17	33	7.0198	0.0000	50361.973	0.0000	0.0000	0.0000

SYS-C-OUT	89.0000	87.8400	91.0900	24	44	3.2500	0.0000	40424.576	0.0000	0.0000	0.0000
MH-C4	89.0000	87.8900	91.0906	24	45	3.2006	0.0000	40448.074	0.0000	0.0000	0.0000

Table E10 - CONDUIT SUMMARY STATISTICS

Note: The peak flow may be less than the design flow and the conduit may still surcharge because of the downstream boundary conditions.

* denotes an open conduit that has been overtopped this is a potential source of severe errors

Conduit Name	Design Flow (cfs)	Conduit Design Velocity (ft/s)	Maximum Vertical Depth (in)	Maximum Computed Flow (cfs)	Time of Occurence Hr.	Time of Occurence Min.	Maximum Computed Velocity (ft/s)	Time of Occurence Hr.	Time of Occurence Min.	Ratio of Max. to Design Flow	Maximum Water Elev at Pipe Ends Upstream (ft)	Maximum Water Elev at Pipe Ends Dwnstrm (ft)	Ratio d/D US	Ratio d/D DS
L_L-MH-C2	82.2735	5.4849	36.0000	124.0910	16	1	8.2016	16	1	1.5083	91.0942	91.0949	3.805	3.818
L_L-C-9	29.8755	4.2265	36.0000	21.7374	16	15	3.0502	16	15	0.7276	91.0969	91.0942	2.957	2.992
L_L-C-21	21.1107	2.9866	36.0000	22.1553	16	15	3.1084	16	15	1.0495	91.0886	91.0942	2.914	3.001
L_L-MH-C1	82.6203	5.5080	36.0000	103.5452	16	1	6.8406	16	1	1.2533	91.2058	91.0942	3.555	3.805
L_L-C-8	18.3381	3.7358	30.0000	16.0200	16	15	3.2323	16	15	0.8736	91.1035	91.0969	3.241	3.348
L_L-C-22	21.0884	2.9834	36.0000	16.7483	16	15	2.3499	16	15	0.7942	91.0930	91.0886	2.864	2.914
L_L-C-1	29.8690	4.2256	36.0000	24.7797	16	7	3.4706	16	7	0.8296	91.2095	91.2058	3.070	3.092
L_L-C-2	39.1215	3.2601	36.0000	40.2812	15	51	3.3296	15	51	1.0296	91.2179	91.2058	3.531	3.557
L_L-MH-C3	94.0026	5.9105	54.0000	177.7244	16	32	11.0831	16	32	1.8906	91.4392	91.2058	2.398	2.370
L_L-C-7	10.1198	3.2212	24.0000	13.0310	30	33	4.0939	30	33	1.2877	91.1108	91.1035	3.659	3.802
L_L-C-23	7.1610	2.2794	24.0000	6.4739	31	18	2.0361	31	18	0.9040	91.0996	91.0930	3.722	3.796
L_L-C-32	18.3343	3.7350	30.0000	14.8174	16	7	2.9831	16	7	0.8082	91.2249	91.2095	3.370	3.484
L_L-C-5	39.1489	3.2624	36.0000	35.4114	15	51	2.9273	15	51	0.9045	91.2657	91.2179	3.439	3.531
L_L-C-31	10.1170	3.2204	24.0000	8.7923	29	10	2.7559	29	10	0.8691	91.2436	91.2249	3.772	3.962
L_L-C-6	39.1573	3.2631	36.0000	31.1411	15	51	2.5745	15	51	0.7953	91.2838	91.2657	3.411	3.439
L_L-C-30	10.1182	3.2207	24.0000	17.5956	28	39	5.5122	28	39	1.7390	91.2892	91.2436	3.682	3.772
L_L-C-12	39.1236	3.2603	36.0000	28.4563	15	51	2.3526	15	51	0.7273	91.3019	91.2838	3.384	3.411
L_L-C-13	26.8550	2.9839	36.0000	25.8040	15	51	2.8447	15	51	0.9609	91.3455	91.3019	3.358	3.384
L_L-C-14	26.7886	2.9765	36.0000	22.6438	15	51	2.4964	15	51	0.8453	91.3555	91.3455	3.352	3.358
L_L-C-15	21.1142	2.9871	36.0000	20.3857	16	16	2.8490	16	16	0.9655	91.3898	91.3555	3.340	3.352
L_L-C-OUT	977.0101	3.6490	102.0000	242.1805	15	59	0.9803	15	59	0.2479	91.0949	91.0906	1.348	1.377 *
L-MH-C4	977.0101	3.6490	102.0000	235.0774	15	59	0.9218	15	59	0.2406	91.0906	91.0900	1.377	1.382 *
FREE # 1	Undefnd	Undefnd	Undefn	235.0774	15	59								

Table E14 - Natural Channel Overbank Flow Information

Conduit Name	Maximum Velocity <---- Left Velocity	Maximum Velocity <---- Center Velocity	Maximum Velocity <---- Right Velocity	Maximum Flow <---- Left Flow	Maximum Flow <---- Center Flow	Maximum Flow <---- Right Flow	Maximum Area <---- Left Area	Maximum Area <---- Center Area	Maximum Area <---- Right Area	Max. Storage Volume <--- Left Area	Max. Storage Volume <--- Center Area	Max. Storage Volume <--- Right Area	Maximum Depth
L_L-C-OUT	0.0000	0.9095	0.0000	0.0000	242.1805	0.0000	0.0000	266.2822	0.0000	0.0000	66570.551	0.0000	8.4742
L-MH-C4	0.0000	0.8869	0.0000	0.0000	235.0774	0.0000	0.0000	265.0642	0.0000	0.0000	13253.212	0.0000	8.4528

Table E14a - Natural Channel Encroachment Information

Conduit Name	Existing Conveyance Condition <- Left Bank	Existing Conveyance Condition <- Centre Channel	Existing Conveyance Condition <- Right Bank	Existing Conveyance Condition <- Total Station	Encroachment Conveyance Condition <- Left Station	Encroachment Conveyance Condition <- Right Station	Encroachment Conveyance Condition <- Left Bank	Encroachment Conveyance Condition <- Centre Channel	Encroachment Conveyance Condition <- Right Bank	Encroachment Conveyance Condition <- Total Station	% Volume <- Left Station	% Volume <- Right Station	Reduction Left	Reduction Right	Depth Incr.	Encroachment Data <- Method
L_L-C-OUT	0.0000	30669.8	0.0000	30669.8	200.40	257.24	0.0000	30669.8	0.0000	30669.8	200.40	257.24	0.0000	0.0000	0.0000	None
L-MH-C4	0.0000	30482.7	0.0000	30482.7	200.46	257.18	0.0000	30482.7	0.0000	30482.7	200.46	257.18	0.0000	0.0000	0.0000	None

Table E14b - Floodplain Mapping

Conduit Name	Upstream WS Elev.	Downstream WS Elev.	Channel Length	Center Station	Left Offsets <- Natural	Left Offsets <- Encroach	Left Offsets <- Bank	Right Offsets <- Natural	Right Offsets <- Encroach	Right Offsets <- Bank	Channel Widths-> Total	Channel Widths-> Encroach.
L_L-C-OUT	91.0949	91.0906	250.0000	231.8200	31.4226	31.4226	36.6300	25.4226	25.4226	28.5000	56.8453	56.8453
L-MH-C4	91.0906	91.0900	50.0000	231.8200	31.3583	31.3583	36.6300	25.3583	25.3583	28.5000	56.7166	56.7166

Table E15 - SPREADSHEET INFO LIST

Conduit Flow and Junction Depth Information for use in spreadsheets. The maximum values in this table are the true maximum values because they sample every time step. The values in the review results may only be the maximum of a subset of all the time steps in the run. Note: These flows are only the flows in a single barrel.

Conduit Name	Maximum Flow (cfs)	Total Flow (ft^3)	Maximum Velocity (ft/s)	Maximum Volume (ft^3)	##	Junction Name	Invert Elevation (ft)	Maximum Elevation (ft)
L_L-MH-C2	124.0910	2636763.030	8.2016	463.2240	##	C-OUT	79.6400	91.0949
L_L-C-9	21.7374	109761.4568	3.0502	398.8892	##	MH-C2	79.6790	91.0942
L_L-C-21	22.1553	106410.0223	3.1084	1901.0185	##	C-9	82.2270	91.0969
L_L-MH-C1	103.5452	2421019.641	6.8406	8701.3406	##	C-21	82.3470	91.0886
L_L-C-8	16.0200	82607.8668	3.2323	702.8284	##	MH-C1	80.5300	91.2058
L_L-C-22	16.7483	80601.9353	2.3499	1134.1257	##	C-8	83.0000	91.1035
L_L-C-1	24.7797	253629.4084	3.4706	258.6518	##	C-22	82.5000	91.0930
L_L-C-2	40.2812	387095.0887	3.3296	1094.8648	##	C-1	82.0000	91.2095
L_L-MH-C3	177.7244	1780418.278	11.0831	802.6153	##	C-2	80.6250	91.2179
L_L-C-7	13.0310	33151.3525	4.0939	482.2175	##	MH-C3	80.6500	91.4392
L_L-C-23	6.4739	26540.1966	2.0361	512.7373	##	C-7	83.7930	91.1108
L_L-C-32	14.8174	204579.9918	2.9831	772.6588	##	C-23	83.6560	91.0996
L_L-C-5	35.4114	355319.2185	2.9273	3947.6406	##	C-32	82.8000	91.2249
L_L-C-31	8.7923	169185.0544	2.7559	654.6936	##	C-5	80.9500	91.2657
L_L-C-6	31.1411	327024.6311	2.5745	1213.5869	##	C-31	83.7000	91.2436
L_L-C-30	17.5956	149392.3201	5.5122	372.0726	##	C-6	81.0500	91.2838

L_L-C-12	28.4563	306811.3302	2.3526	1215.5121	##	C-30	83.9260	91.2892
L_L-C-13	25.8040	286069.1657	2.8447	1092.8734	##	C-12	81.1500	91.3019
L_L-C-14	22.6438	263110.7728	2.4964	274.5408	##	C-13	81.2700	91.3455
L_L-C-15	20.3857	246206.2688	2.8490	517.6148	##	C-14	81.3000	91.3555
L_L-C-OUT	242.1805	2634118.550	0.9803	66570.5512	##	C-15	81.3700	91.3898
L-MH-C4	235.0774	2632416.050	0.9218	13253.2118	##	SYS-C-OUT	79.3400	91.0900
FREE # 1	235.0774	2632506.963	0.0000	0.0000	##	MH-C4	79.3900	91.0906

Table E15a - SPREADSHEET REACH LIST

Peak flow and Total Flow listed by Reach or those conduits or diversions having the same upstream and downstream nodes.

Upstream Node	Downstream Node	Maximum Flow (cfs)	Total Flow (ft^3)
MH-C2	C-OUT	248.1819	2636763.03
C-9	MH-C2	21.7374	109761.457
C-21	MH-C2	22.1553	106410.022
MH-C1	MH-C2	207.0904	2421019.64
C-8	C-9	16.0200	82607.8668
C-22	C-21	16.7483	80601.9353
C-1	MH-C1	24.7797	253629.408
C-2	MH-C1	40.2812	387095.089
MH-C3	MH-C1	177.7244	1780418.28
C-7	C-8	13.0310	33151.3525
C-23	C-22	6.4739	26540.1966
C-32	C-1	14.8174	204579.992
C-5	C-2	35.4114	355319.219
C-31	C-32	8.7923	169185.054
C-6	C-5	31.1411	327024.631
C-30	C-31	17.5956	149392.320
C-12	C-6	28.4563	306811.330
C-13	C-12	25.8040	286069.166
C-14	C-13	22.6438	263110.773
C-15	C-14	20.3857	246206.269
C-OUT	MH-C4	242.1805	2634118.55
MH-C4	SYS-C-OUT	235.0774	2632416.05

Table E18 - Junction Continuity Error. Division by Volume added 11/96

Continuity Error = Net Flow + Beginning Volume - Ending Volume / Total Flow + (Beginning Volume + Ending Volume)/2

Net Flow = Node Inflow - Node Outflow
Total Flow = absolute (Inflow + Outflow)
Intermediate column is a judgement on the node continuity error.

Excellent < 1 percent Great 1 to 2 percent Good 2 to 5 percent
Fair 5 to 10 percent Poor 10 to 25 percent Bad 25 to 50 percent
Terrible > 50 percent

Junction Name	<------Continuity Error -------> Volume	% of Node	% of Inflow	Remaining Volume	Beginning Volume	Net Flow Thru Node	Total Flow Thru Node	Failed to Converge
C-OUT	2464.1558	0.0467	0.0920	253.5156	0.0000	2717.6715	5270881.581	0
MH-C2	229.3270	0.0043	0.0086	273.8271	0.0000	503.1541	5273954.150	0
C-9	-160.9334	-0.0734	0.0060	0.0011	0.0000	-160.9323	219360.3537	0
C-21	-204.1943	-0.0960	0.0076	0.0022	0.0000	-204.1921	212616.9855	0
MH-C1	-161.3529	-0.0033	0.0060	273.9826	0.0000	112.6296	4842162.416	0
C-8	237.1240	0.1433	0.0089	0.0018	0.0000	237.1258	165457.2710	0
C-22	-214.8073	-0.1334	0.0080	0.0015	0.0000	-214.8058	160989.1940	0
C-1	-903.7562	-0.1785	0.0338	0.0012	0.0000	-903.7550	506350.4543	0
C-2	-1419.7959	-0.1837	0.0530	32.9110	0.0000	-1386.8849	772798.3414	0
MH-C3	-79990.8590	-2.2979	2.9879	13.8005	0.0000	-79977.0585	3480987.180	0
C-7	-6390.2861	-10.6668	0.2387	0.0010	0.0000	-6390.2852	59908.3804	0
C-23	-1391.7595	-2.6927	0.0520	0.0010	0.0000	-1391.7585	51686.2224	0
C-32	-545.9064	-0.1336	0.0204	0.0019	0.0000	-545.9045	408613.0762	0
C-5	-2193.1550	-0.3096	0.0819	28.9577	0.0000	-2164.1973	708470.8796	0
C-31	-55.5463	-0.0164	0.0021	0.0018	0.0000	-55.5445	338269.3953	0
C-6	-2897.5522	-0.4450	0.1082	13.8573	0.0000	-2883.6949	651160.9800	0
C-30	-127158.416	-74.1425	4.7498	0.0006	0.0000	-127158.415	171505.3433	0
C-12	-3220.9941	-0.5277	0.1203	14.0988	0.0000	-3206.8953	610412.5143	1
C-13	-2034.4407	-0.3569	0.0760	9.3969	0.0000	-2025.0438	570104.9604	0

C-14	532.4755	0.1011	0.0199	4.9958	0.0000	537.4713	526750.0601	0
C-15	584.1530	0.1185	0.0218	3.5984	0.0000	587.7515	493000.5133	0
SYS-C-OUT	-45.9142	-0.0008	0.0017	24.1695	0.0000	-21.7447	5532125.140	0
MH-C4	1557.9690	0.0296	0.0582	254.9960	0.0000	1812.9651	5266534.601	0

The total continuity error was -2.23384E+05 cubic feet
The remaining total volume was 1202.1 cubic feet
Your mean node continuity error was Excellent
Your worst node continuity error was Good

Table E19 - Junction Inflow & Outflow Listing
Units are either ft^3 or m^3 depending on the units in your model.

Junction Name	Constant Inflow to Node	User Inflow to Node	Interface Inflow to Node	DWF Inlow to Node	Inflow through Outfall	RNF Layer Inflow to Node	Outflow from Node	Evaporation from Node	Inflow from 2D Layer
C-9	0.0000	26991.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
C-21	0.0000	25605.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
C-8	0.0000	49698.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
C-22	0.0000	53847.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
C-1	0.0000	48141.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
C-2	0.0000	30384.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
MH-C3	0.0000	1.7006E+06	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
C-7	0.0000	26757.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
C-23	0.0000	25146.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
C-32	0.0000	34848.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
C-5	0.0000	26127.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
C-31	0.0000	19692.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
C-6	0.0000	17325.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
C-30	0.0000	22113.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
C-12	0.0000	17532.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
C-13	0.0000	20925.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
C-14	0.0000	17433.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
C-15	0.0000	246793.5250	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
SYS-C-OUT	0.0000	0.0000	0.0000	0.0000	267202.1266	0.0000	2.8997E+06	0.0000	

Table E20 - Junction Flooding and Volume Listing.
The maximum volume is the total volume in the node including the volume in the flooded storage area. This is the max volume at any time. The volume in the flooded storage area is the total volume above the ground elevation, where the flooded pond storage area starts.
The fourth column is instantaneous, the fifth is the sum of the flooded volume over the entire simulation
Units are either ft^3 or m^3 depending on the units.

Junction Name	Surcharged Time (min)	Flooded Time(min)	Out of 1D-System (Flooded Volume)	Maximum Volume	Passed to 2D cell OR Volume Stored in allowed Flood Pond of 1D-System
C-OUT	940.3833	701.9000	0.0000	77353.3830	105128.0778
MH-C2	1071.4500	796.8583	0.0000	143.4438	64.4259
C-9	1065.6833	795.6500	0.0000	10996.8943	13982.7507
C-21	1059.3000	832.1750	0.0000	15138.0681	17375.6918
MH-C1	1075.6667	833.6250	0.0000	15922.6722	102310.4999
C-8	1051.8167	800.9833	0.0000	8893.1032	11667.4117
C-22	1051.6000	842.3833	0.0000	15732.9881	18458.2172
C-1	1078.2500	827.1083	0.0000	13970.5972	35820.8767
C-2	1169.5333	844.0583	0.0000	17476.2209	40131.0672
MH-C3	1069.7417	799.6583	0.0000	9399.5135	42810.2527
C-7	1037.2667	832.1750	0.0000	9378.6883	13881.2122
C-23	1043.8500	891.5417	0.0000	20581.0512	26137.3818
C-32	1061.9667	827.5583	0.0000	13526.6068	27171.2521
C-5	1146.0333	874.0250	0.0000	25226.4278	39391.0806
C-31	1042.8500	783.1917	0.0000	7181.4624	102712.1262
C-6	1138.9500	880.5000	0.0000	28328.1104	43060.4940
C-30	1033.7167	628.9500	0.0000	1334.6676	29823.5203
C-12	1132.1000	887.9750	0.0000	31385.4346	46963.3802
C-13	1123.7500	897.1000	0.0000	36568.6792	53453.2953
C-14	1122.0167	898.1000	0.0000	26743.3103	39325.9352
C-15	1117.3000	919.7833	0.0000	45458.8566	71451.3043
SYS-C-OUT	950.5750	0.0000	0.0000	35545.9634	12.6679
MH-C4	948.8250	892.4500	0.0000	35568.8337	90569.4273

```
*==================================*
| Simulation Specific Information  |
*==================================*
Number of Input Conduits.........        22 Number of Simulated Conduits......        23
Number of Natural Channels.......         2 Number of Junctions..............        23
Number of Storage Junctions......         5 Number of Weirs..................         0
Number of Orifices...............         0 Number of Pumps..................         0
Number of Free Outfalls..........         1 Number of Tide Gate Outfalls.....         0


*=========================================================*
| Average % Change in Junction or Conduit is defined as:  |
| Conduit  % Change ==> 100.0 ( Q(n+1) - Q(n) ) / Qfull   |
| Junction % Change ==> 100.0 ( Y(n+1) - Y(n) ) / Yfull   |
*=========================================================*

The Conduit with the largest average change was..L_L-MH-C3  with     5.997 percent
The Junction with the largest average change was.C-30       with     0.506 percent
The Conduit with the largest sinuosity was.......L_L-C-30   with  1334.654


*================================================================*
| Table E21. Continuity balance at the end of the simulation     |
|            Junction Inflow, Outflow or Street Flooding         |
| Error = Inflow  + Initial Volume - Outflow - Final   Volume    |
*================================================================*

       Inflow          Inflow       Average
       Junction   Volume,ft^3   Inflow, cfs
--------------  ------------  -------------
            C-9    26991.0300         0.1562

           C-21    25605.0279         0.1482

            C-8    49698.0517         0.2876

           C-22    53847.0621         0.3116

            C-1    48141.0541         0.2786

            C-2    30384.0342         0.1758

          MH-C3   1.70057E+06         9.8413

            C-7    26757.0279         0.1548

           C-23    25146.0259         0.1455

           C-32    34848.0300         0.2017

            C-5    26127.0300         0.1512

           C-31    19692.0208         0.1140

            C-6    17325.0187         0.1003

           C-30    22113.0232         0.1280

           C-12    17532.0184         0.1015

           C-13    20925.0220         0.1211

           C-14    17433.0184         0.1009

           C-15   246794.2444         1.4282

      SYS-C-OUT   267202.1266         1.5463

      SYS-C-OUT    -2.900E+06       -16.7807


       Outflow      Outflow         Average
       Junction  Volume,ft^3    Outflow, cfs
--------------  ------------   ------------
      SYS-C-OUT   2.89971E+06        16.7807


*=====================================================*

| Initial system volume        =         0.0000 Cu Ft |

| Total system inflow volume   =   2.677119E+06 Cu Ft |

| Inflow + Initial volume      =   2.677119E+06 Cu Ft |

*=====================================================*

| Total system outflow         =   2.899709E+06 Cu Ft |

| Volume left in system        =      1202.1214 Cu Ft |

| Evaporation                  =         0.0000 Cu Ft |

| Outflow + Final Volume       =   2.900911E+06 Cu Ft |

*=====================================================*


*=============================================*
| Total Model Continuity Error                |
| Error in Continuity, Percent =        -8.3442 |
| Error in Continuity, ft^3    =    -223384.465 |
| + Error means a continuity loss, - a gain    |
*=============================================*

#####################################################
# Table E22. Numerical Model judgement section    #
#####################################################

Your overall error was                                  -8.3442 percent


Worst nodal error was in node C-30             with       -74.1425 percent


Of the total inflow this loss was                        4.7498 percent


Your overall continuity error was                 Fair


                                          Excellent Efficiency
```

```
Efficiency of the simulation                      2.08


Most Number of Non Convergences at one Node       1.


Total Number Non Convergences at all Nodes        1.


Total Number of Nodes with Non Convergences       1.



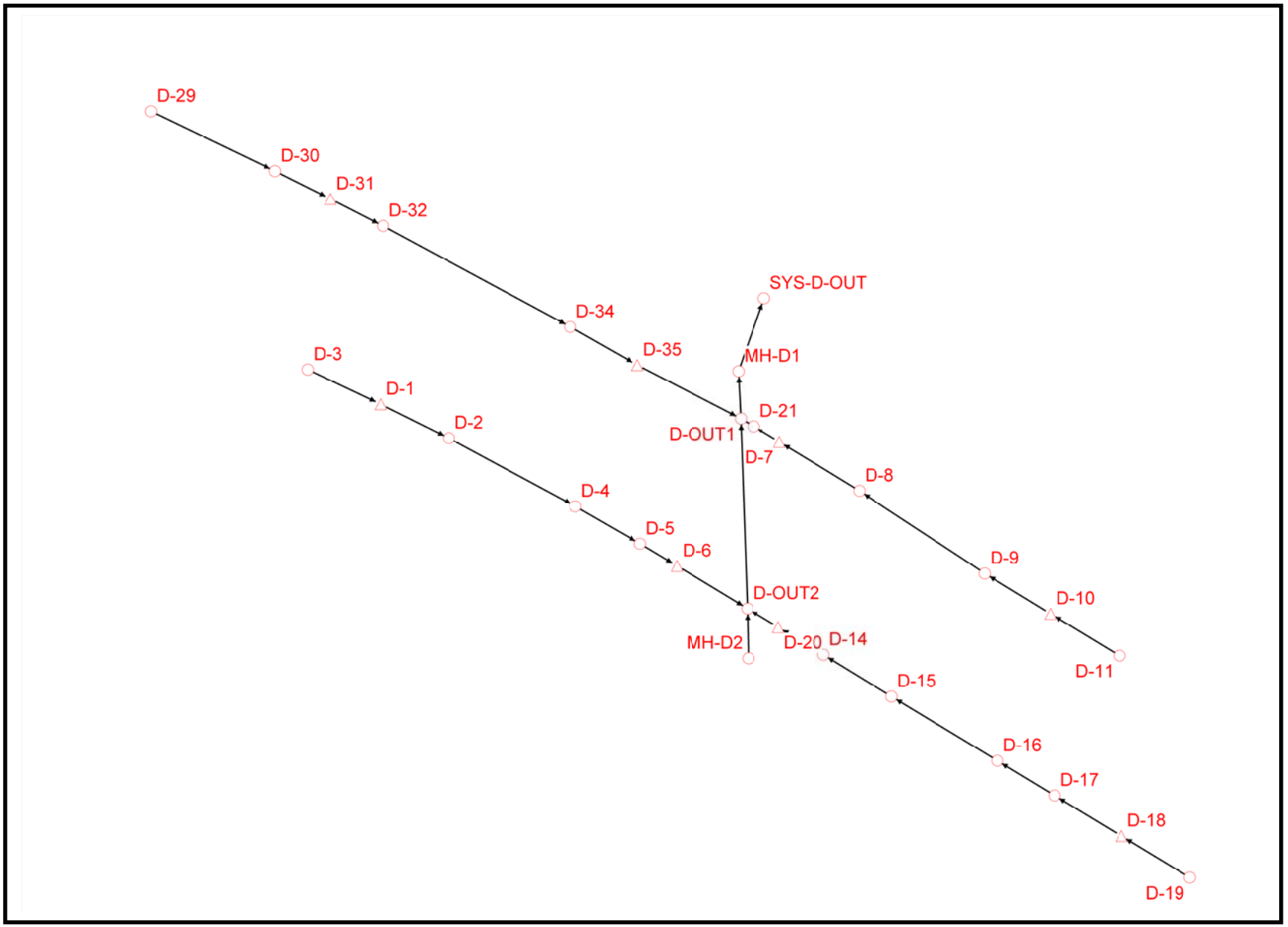
===> Hydraulic model simulation ended normally.
===> XP-SWMM Simulation ended normally.


===> Your input file was named  : P:\PROJECTS\290PMC\PHASEII\DRA\Models\SWMM\Outfalls 9-16\SWMM\Report 6-2011\Mitigated\US290_Mit_SegB_SysC.DAT
===> Your output file was named : P:\PROJECTS\290PMC\PHASEII\DRA\Models\SWMM\Outfalls 9-16\SWMM\Report 6-2011\Mitigated\US290_Mit_SegB_SysC.out

*============================================================*
|             SWMM Simulation Date and Time Summary          |
*============================================================*
| Starting Date... June       24, 2011  Time...   13:40:56: 0  |
|   Ending Date... June       24, 2011  Time...   13:50:48:35  |
|  Elapsed Time...    9.87250 minutes or    592.35000 seconds  |
*============================================================*
```

OUTFALL 13
SWMM OUTPUT
100 YR- MITIGATED CONDITIONS

OUTFALL 13
MITIGATED CONDITIONS SWMM LAYOUT



Current Directory: C:\XPS\xpstorm
Engine Name: C:\XPS\xpstorm\SWMMEN~1.EXE

Input File : Outfalls 9-16\SWMM\Report 6-2011\Mitigated\US290_Mit_SegB_SysD.XP

```
          *================================================*
          |                     xpswmm                     |
          |     Storm and Wastewater Management Model      |
          |           Interface Version: 10.52             |
          |              Engine Version: 10.54             |
          |================================================|
          |                                                |
          |                 Developed by                   |
          |                                                |
          |                 XP Software                    |
          |                                                |
          |================================================|
          |      XP Software       November, 2006          |
          |       Data File Version --->    11.9           |
          |       Serial Number: 66-1052-0602              |
          |                H & H Resources                 |
          *================================================*
```

Engine Name: C:\XPS\xpstorm\SWMMEN~1.EXE

===
| Input and Output file names by Layer |
===

Input File to Layer #   1 JOT.US
Output File to Layer #   1 JOT.US

===
| Special command line arguments in XP-SWMM2000. This |
| now includes program defaults. $Keywords are the program|
| defaults. Other Keywords are from the SWMMCOM.CFG file.|
| or the command line or any cfg file on the command line.|
| Examples include these in the file xpswm.bat under the |
| section :solve or in the windows version XPSWMM32 in the|
| file solve.bat |
| |
| Note: the cfg file should be in the subdirectory swmxp |
| or defined by the set variable in the xpswm.bat |
| file. Some examples of the command lines possible|
| are shown below: |
| |
| swmmd swmmcom.cfg |
| swmmd my.cfg |
| swmmd nokeys nconv5 perv extranwq |
===

$powerstation	0.0000	1	2
$perv	0.0000	0	4
$oldegg	0.0000	0	7
$as	0.0000	0	11
$noflat	0.0000	0	21
$oldomega	0.0000	0	24
$oldvol	0.0000	1	28
$implicit	0.0000	1	29
$oldhot	0.0000	1	31
$oldscs	0.0000	0	33
$flood	0.0000	1	40
$nokeys	0.0000	0	42
$pzero	0.0000	0	55
$oldvol2	0.0000	2	59
$storage2	0.0000	3	62
$oldhot1	0.0000	1	63
$pumpwt	0.0000	1	70
$ecloss	0.0000	1	77
$exout	0.0000	0	97
SPATIAL=0.55	0.5500	5	124
$djref = -1.0	-0.1000	3	143
$weirlen = 50	50.0000	1	153
$oldbnd	0.0000	1	154
$nogrelev	0.0000	1	161
$ncmid	0.0000	0	164
$new_nl_97	0.0000	2	290
$best97	0.0000	1	294
$newbound	0.0000	1	295
$q_tol = 0.01	0.0001	1	316
$new_storage	0.0000	1	322
$old_iteration	0.0000	1	333
MINLEN=10	10.0000	1	346
$review_elevation	0.0000	1	383
$use_half_volume	0.0000	1	385
$min_ts = 0.5	0.5000	1	407
$design_restart = on	0.0000	1	412
$zero_value=1.e-05	0.0000	1	415
$relax_depth = on	0.0000	1	427
$saveallpts = on	0.0000	1	434

===
| Parameter Values on the Tapes Common Block.These are the |
| values read from the data file and dynamically allocated |
| by the model for this simulation. |
===

Number of Subcatchments in the Runoff Block (NW)....	0
Number of Channel/Pipes in the Runoff Block (NG)....	0
Runoff Water quality constituents (NRQ).....	0
Runoff Land Uses per Subcatchment (NLU).....	0
Number of Elements in the Transport Block (NET).....	0
Number of Storage Junctions in Transport (NTSE).....	0
Number of Input Hydrographs in Transport (NTH).....	0
Number of Elements in the Extran Block (NEE).....	30
Number of Groundwater Subcatchments in Runoff (NGW).	0
Number of Interface locations for all Blocks (NIE)..	30
Number of Pumps in Extran (NEP).....	0
Number of Orifices in Extran (NEO).....	0
Number of Tide Gates/Free Outfalls in Extran (NTG)..	1
Number of Extran Weirs (NEW).....	0
Number of scs hydrograph points.....	1
Number of Extran printout locations (NPO).....	0
Number of Tide elements in Extran (NTE).....	1
Number of Natural channels (NNC).....	0
Number of Storage junctions in Extran (NVSE).....	8
Number of Time history data points in Extran(NTVAL).	300
Number of Variable storage elements in Extran (NVST)	7
Number of Input Hydrographs in Extran (NEH).....	26
Number of Particle sizes in Transport Block (NPS)...	0
Number of User defined conduits (NHW).....	30
Number of Connecting conduits in Extran (NECC).....	20
Number of Upstream elements in Transport (NTCC).....	10
Number of Storage/treatment plants (NSTU).....	1

```
 Number of Values for R1 lines in Transport (NR1)....     0
 Number of Nodes to be allowed for (NNOD)............    30
 Number of Plugs in a Storage Treatment Unit.........     1


#####################################################
#    Entry made to the HYDRAULIC Layer(Block) of SWMM #
#    Last Updated June,2005 by XP Software          #

    US 290/ Hempstead Highway Corridor - From W.Little York to Hollister
    Drainage Impact & Mitigation Study - Existing Conditions - SegB_SysA -1


*============================================================*
|        HYDRAULICS TABLES IN THE OUTPUT FILE                |
|  These are the more important tables in the output file.   |
|  You can use your editor to find the table numbers,        |
|  for example: search for Table E20 to check continuity.    |
|  This output file can be imported into a Word Processor    |
|  and printed on US letter or A4 paper using portrait       |
|  mode, courier font, a size of 8 pt. and margins of 0.75   |
|                                                            |
| Table E1   - Basic Conduit Data                            |
| Table E2   - Conduit Factor Data                           |
| Table E3a  - Junction Data                                 |
| Table E3b  - Junction Data                                 |
| Table E4   - Conduit Connectivity Data                     |
| Table E4a  - Dry Weather Flow Data                         |
| Table E4b  - Real Time Control Data                        |
| Table E5   - Junction Time Step Limitation Summary         |
| Table E5a  - Conduit Explicit Condition Summary            |
| Table E6   - Final Model Condition                         |
| Table E7   - Iteration Summary                             |
| Table E8   - Junction Time Step Limitation Summary         |
| Table E9   - Junction  Summary  Statistics                 |
| Table E10  - Conduit   Summary  Statistics                 |
| Table E11  - Area assumptions used in the analysis         |
| Table E12  - Mean conduit information                      |
| Table E13  - Channel losses(H) and culvert info            |
| Table E13a - Culvert Analysis Classification               |
| Table E14  - Natural Channel Overbank Flow Information     |
| Table E14a - Natural Channel Encroachment Information      |
| Table E14b - Floodplain Mapping                            |
| Table E15  - Spreadsheet Info List                         |
| Table E15a - Spreadsheet Reach List                        |
| Table E16  - New Conduit Output Section                    |
| Table E17  - Pump Operation                                |
| Table E18  - Junction Continuity Error                     |
| Table E19  - Junction Inflow & Outflow Listing             |
| Table E20  - Junction Flooding and Volume List             |
| Table E21  - Continuity balance at simulation end          |
| Table E22  - Model Judgement Section                       |
*============================================================*

Time Control from Hydraulics Job Control
Year.........    1995 Month.......       1
Day..........       1 Hour........       0
Minute.......       0 Second......       0


Control information for simulation
----------------------------------

Integration cycles..................    172800
Length of integration step is......      1.00 seconds
Simulation length...................     48.00 hours
Do not create equiv. pipes(NEQUAL).         0
Use U.S. customary units for I/O...         0
Printing starts in cycle...........         1
Intermediate printout intervals of.       500 cycles
Intermediate printout intervals of.      8.33 minutes
Summary printout intervals of......       500 cycles
Summary printout time interval of..      8.33 minutes
Hot start file parameter (REDO)....         0
Initial time........................      0.00 hours

Iteration variables: Flow Tolerance.   0.00010
                     Head Tolerance.   0.00010
    Minimum depth (m or ft).........   0.00001
    Underrelaxation parameter.......   0.85000
    Time weighting parameter........   0.85000
    Conduit roughness factor........   1.00000
    Flow adjustment factor..........   1.00000
    Initial Condition Smoothing.....         0
    Courant Time Step Factor........   1.00000
    Default Expansion/Contraction K.   0.00000
    Default Entrance/Exit K.........   0.00000
    Routing Method..................   Dynamic Wave
Default surface area of junctions...     12.57 square feet.
Minimum Junction/Conduit Depth......   0.00001 feet.
Ponding Area Coefficient............   5000.00
Ponding Area Exponent...............    1.0000
Minimum Orifice Length..............    500.00 feet.
NJSW input hydrograph junctions.....    26
     or user defined hydrographs....

*================================================*
|          Table E1 - Conduit Data               |
*================================================*
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Inp Num	Conduit Name	Length (ft)	Conduit Class	Area (ft^2)	Manning Coef.	Max Width (ft)	Depth (ft)	Trapezoid Side Slopes
1	L_L-D-21	27.6900	Circular	7.0686	0.0130	3.0000	3.0000	
2	L_L-D-35	217.3180	Circular	9.6211	0.0130	3.5000	3.5000	
3	L_L-D-7	55.4970	Circular	7.0686	0.0130	3.0000	3.0000	
4	L_L-D-34	143.9770	Circular	9.6211	0.0130	3.5000	3.5000	
5	L_L-D-8	175.9820	Circular	7.0686	0.0130	3.0000	3.0000	
6	L_L-D-32	395.9720	Circular	7.0686	0.0130	3.0000	3.0000	
7	L_L-D-9	280.3720	Circular	4.9087	0.0130	2.5000	2.5000	
8	L_L-D-31	110.0860	Circular	7.0686	0.0130	3.0000	3.0000	
9	L_L-D-10	143.8810	Circular	4.9087	0.0130	2.5000	2.5000	
10	L_L-D-30	115.3210	Circular	4.9087	0.0130	2.5000	2.5000	
11	L_L-D-11	150.5140	Circular	3.1416	0.0130	2.0000	2.0000	
12	L_L-D-29	256.2630	Circular	3.1416	0.0130	2.0000	2.0000	
13	L_L-D-6	153.6710	Circular	12.5664	0.0130	4.0000	4.0000	
14	L_L-D-20	66.3290	Circular	9.6211	0.0130	3.5000	3.5000	
15	L_L-D-5	80.3350	Circular	9.6211	0.0130	3.5000	3.5000	
16	L_L-D-14	98.9830	Circular	9.6211	0.0130	3.5000	3.5000	
17	L_L-D-4	139.6260	Circular	9.6211	0.0130	3.5000	3.5000	
18	L_L-D-15	150.0000	Circular	7.0686	0.0130	3.0000	3.0000	
19	L_L-D-2	267.9180	Circular	9.6211	0.0130	3.5000	3.5000	
20	L_L-D-16	230.5900	Circular	7.0686	0.0130	3.0000	3.0000	
21	L_L-D-1	141.9960	Circular	7.0686	0.0130	3.0000	3.0000	
22	L_L-D-17	124.4090	Circular	7.0686	0.0130	3.0000	3.0000	
23	L_L-D-3	150.0340	Circular	3.1416	0.0130	2.0000	2.0000	
24	L_L-D-18	146.0170	Circular	4.9087	0.0130	2.5000	2.5000	

25	L_L-D-19	148.9840	Circular	3.1416	0.0130	2.0000	2.0000
26	L_L-D-OUT1	100.0000	Rectangle	96.0000	0.0130	8.0000	12.0000
27	L_L-MH-D1	160.0000	Rectangle	96.0000	0.0130	8.0000	12.0000
28	Link837	345.0000	Rectangle	96.0000	0.0130	8.0000	12.0000
29	L_L-MH-D2	150.0000	Rectangle	96.0000	0.0130	8.0000	12.0000

Total length of all conduits .... 4726.7650 feet

==
| If there are messages about (sqrt(g*d)*dt/dx), or |
| the sqrt(wave celerity)*time step/conduit length |
| in the output file all it means is that the |
| program will lower the internal time step to |
| satisfy this condition (explicit condition). |
| You control the actual internal time step by |
| using the minimum courant time step factor in the |
| HYDRAULICS job control. The message put in words |
| states that the smallest conduit with the fastest |
| velocity will control the time step selection. |
| You have further control by using the modify |
| conduit option in the HYDRAULICS Job Control. |
==

Conduit Name	Courant Ratio
L_L-D-21	0.35
L_L-D-35	0.05
L_L-D-7	0.18
L_L-D-34	0.07
L_L-D-8	0.06
L_L-D-32	0.02
L_L-D-9	0.03
L_L-D-31	0.09
L_L-D-10	0.06
L_L-D-30	0.08
L_L-D-11	0.05
L_L-D-29	0.03
L_L-D-6	0.07
L_L-D-20	0.16
L_L-D-5	0.13
L_L-D-14	0.11
L_L-D-4	0.08
L_L-D-15	0.07
L_L-D-2	0.04
L_L-D-16	0.04
L_L-D-1	0.07
L_L-D-17	0.08
L_L-D-3	0.05
L_L-D-18	0.06
L_L-D-19	0.05
L_L-D-OUT1	0.20
L_L-MH-D1	0.12
Link837	0.06
L_L-MH-D2	0.13

==================
| Conduit Volume |
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Full pipe or full open conduit volume
Input full depth volume..... 9.9737E+04 cubic feet

==
| Table E3a - Junction Data |
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Inp Num	Junction Name	Ground Elevation	Crown Elevation	Invert Elevation	Qinst cfs	Initial Depth-ft	Interface Flow (%)
1	D-OUT1	88.0100	88.0100	71.7700	0.0000	0.0000	100.0000
2	D-21	87.7200	87.7200	78.5640	0.0000	0.0000	100.0000
3	D-35	88.1500	88.1500	79.5500	0.0000	0.0000	100.0000
4	D-7	87.6600	87.6600	78.7190	0.0000	0.0000	100.0000
5	D-34	88.1500	88.1500	79.8380	0.0000	0.0000	100.0000
6	D-8	87.3600	87.3600	79.2120	0.0000	0.0000	100.0000
7	D-32	88.3800	88.3800	81.1300	0.0000	0.0000	100.0000
8	D-9	87.3600	87.3600	80.4970	0.0000	0.0000	100.0000
9	D-31	88.5800	88.5800	81.3500	0.0000	0.0000	100.0000
10	D-10	87.1600	87.1600	80.9000	0.0000	0.0000	100.0000
11	D-30	88.7900	88.7900	82.0810	0.0000	0.0000	100.0000
12	D-11	86.9700	86.9700	81.8210	0.0000	0.0000	100.0000
13	D-29	89.2200	89.2200	83.0940	0.0000	0.0000	100.0000
14	D-OUT2	87.7100	87.7100	72.1100	0.0000	0.0000	100.0000
15	D-6	88.0000	88.0000	78.1360	0.0000	0.0000	100.0000
16	D-20	87.6400	87.6400	77.6000	0.0000	0.0000	100.0000
17	D-5	88.0900	88.0900	78.8610	0.0000	0.0000	100.0000
18	D-14	87.5600	87.5600	77.8770	0.0000	0.0000	100.0000
19	D-4	88.1500	88.1500	79.2520	0.0000	0.0000	100.0000
20	D-15	87.4500	87.4500	78.7970	0.0000	0.0000	100.0000
21	D-2	88.1500	88.1500	80.0020	0.0000	0.0000	100.0000
22	D-16	87.1800	87.1800	79.4430	0.0000	0.0000	100.0000
23	D-1	88.1400	88.1400	80.9000	0.0000	0.0000	100.0000
24	D-17	86.9400	86.9400	79.7910	0.0000	0.0000	100.0000
25	D-3	88.4000	88.4000	82.3200	0.0000	0.0000	100.0000
26	D-18	86.7400	86.7400	80.7000	0.0000	0.0000	100.0000
27	D-19	86.7500	86.7500	81.6170	0.0000	0.0000	100.0000
28	SYS-D-OUT	87.0000	87.0000	70.9600	0.0000	0.0000	100.0000
29	MH-D1	88.0000	88.0000	71.6600	0.0000	0.0000	100.0000
30	MH-D2	88.0400	88.0400	72.2600	0.0000	0.0000	100.0000

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| Table E3b - Junction Data |
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Inp Num	Junction Name	X Coord.	Y Coord.	Type of Manhole	Type of Inlet	Maximum Capacity	Pavement Shape	Pavement Slope
1	D-OUT1	3.070453E+06	13.87841E+06	F	Normal		0	0.0000
2	D-21	3.070477E+06	13.87839E+06	F	Normal		0	0.0000
3	D-35	3.070260E+06	13.87851E+06	F	Normal		0	0.0000
4	D-7	3.070524E+06	13.87836E+06	F	Normal		0	0.0000
5	D-34	3.070135E+06	13.87858E+06	F	Normal		0	0.0000
6	D-8	3.070675E+06	13.87827E+06	F	Normal		0	0.0000
7	D-32	3.069786E+06	13.87877E+06	F	Normal		0	0.0000
8	D-9	3.070909E+06	13.87812E+06	F	Normal		0	0.0000
9	D-31	3.069688E+06	13.87882E+06	F	Normal		0	0.0000
10	D-10	3.071031E+06	13.87804E+06	F	Normal		0	0.0000
11	D-30	3.069585E+06	13.87887E+06	F	Normal		0	0.0000
12	D-11	3.071160E+06	13.87797E+06	F	Normal		0	0.0000
13	D-29	3.069354E+06	13.87898E+06	F	Normal		0	0.0000
14	D-OUT2	3.070466E+06	13.87805E+06	F	Normal		0	0.0000
15	D-6	3.070334E+06	13.87813E+06	F	Normal		0	0.0000
16	D-20	3.070522E+06	13.87802E+06	F	Normal		0	0.0000
17	D-5	3.070265E+06	13.87817E+06	F	Normal		0	0.0000
18	D-14	3.070607E+06	13.87797E+06	F	Normal		0	0.0000

19	D-4	3.070145E+06	13.87824E+06	F	Normal	0	0.0000
20	D-15	3.070735E+06	13.87789E+06	F	Normal	0	0.0000
21	D-2	3.069909E+06	13.87837E+06	F	Normal	0	0.0000
22	D-16	3.070932E+06	13.87777E+06	F	Normal	0	0.0000
23	D-1	3.069782E+06	13.87843E+06	F	Normal	0	0.0000
24	D-17	3.071039E+06	13.87771E+06	F	Normal	0	0.0000
25	D-3	3.069646E+06	13.87850E+06	F	Normal	0	0.0000
26	D-18	3.071164E+06	13.87763E+06	F	Normal	0	0.0000
27	D-19	3.071291E+06	13.87755E+06	F	Normal	0	0.0000
28	SYS-D-OUT	3.070496E+06	13.87863E+06	F	Normal	0	0.0000
29	MH-D1	3.070449E+06	13.87850E+06	F	Normal	0	0.0000
30	MH-D2	3.070467E+06	13.87796E+06	F	Normal	0	0.0000

Table E4 - Conduit Connectivity

Input Number	Conduit Name	Upstream Node	Downstream Node	Upstream Elevation	Downstream Elevation	
1	L_L-D-21	D-21	D-OUT1	78.5640	78.4860	No Design
2	L_L-D-35	D-35	D-OUT1	79.5500	79.1150	No Design
3	L_L-D-7	D-7	D-21	78.7190	78.5640	No Design
4	L_L-D-34	D-34	D-35	79.8380	79.5500	No Design
5	L_L-D-8	D-8	D-7	79.2120	78.7190	No Design
6	L_L-D-32	D-32	D-34	81.1300	80.3380	No Design
7	L_L-D-9	D-9	D-8	80.4970	79.7120	No Design
8	L_L-D-31	D-31	D-32	81.3500	81.1300	No Design
9	L_L-D-10	D-10	D-9	80.9000	80.4970	No Design
10	L_L-D-30	D-30	D-31	82.0810	81.8500	No Design
11	L_L-D-11	D-11	D-10	81.8210	81.4000	No Design
12	L_L-D-29	D-29	D-30	83.0940	82.5810	No Design
13	L_L-D-6	D-6	D-OUT2	78.1360	77.7060	No Design
14	L_L-D-20	D-20	D-OUT2	77.6000	77.4140	No Design
15	L_L-D-5	D-5	D-6	78.8610	78.6360	No Design
16	L_L-D-14	D-14	D-20	77.8770	77.6000	No Design
17	L_L-D-4	D-4	D-5	79.2520	78.8610	No Design
18	L_L-D-15	D-15	D-14	78.7970	78.3770	No Design
19	L_L-D-2	D-2	D-4	80.0020	79.2520	No Design
20	L_L-D-16	D-16	D-15	79.4430	78.7970	No Design
21	L_L-D-1	D-1	D-2	80.9000	80.5020	No Design
22	L_L-D-17	D-17	D-16	79.7910	79.4430	No Design
23	L_L-D-3	D-3	D-1	82.3200	81.9000	No Design
24	L_L-D-18	D-18	D-17	80.7000	80.2910	No Design
25	L_L-D-19	D-19	D-18	81.6170	81.2000	No Design
26	L_L-D-OUT1	D-OUT1	MH-D1	71.7700	71.6600	No Design
27	L_L-MH-D1	MH-D1	SYS-D-OUT	71.6600	70.9600	No Design
28	Link837	D-OUT2	D-OUT1	72.1100	71.7700	No Design
29	L_L-MH-D2	MH-D2	D-OUT2	72.2600	72.1100	No Design

Storage Junction Data

STORAGE JUNCTION NUMBER OR NAME	JUNCTION TYPE	MAXIMUM OR CONSTANT SURFACE AREA (FT2)	PEAK OR CONSTANT VOLUME (CUBIC FEET)	CROWN ELEVATION (FT)	DEPTH STARTS FROM
D-35	Stage/Area	17119.0800	137138.7057	88.1500	Spill Crest
D-7	Stage/Area	17119.0800	142976.3120	87.6600	Spill Crest
D-31	Stage/Area	17119.0800	113685.5661	88.5800	Spill Crest
D-10	Stage/Area	17119.0800	97080.0585	87.1600	Spill Crest
D-6	Stage/Area	17119.0800	158777.2228	88.0000	Spill Crest
D-20	Stage/Area	17119.0800	161790.1809	87.6400	Spill Crest
D-1	Stage/Area	17119.0800	113856.7569	88.1400	Spill Crest
D-18	Stage/Area	17119.0800	93313.8609	86.7400	Spill Crest

Variable storage data for node | D-35

Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	79.5500	0.0000	4.3560	0.0000	0.0001	0.0000
2	79.5750	0.0250	150.8265	1.5068	0.0035	0.0000
3	79.6000	0.0500	297.2970	7.0058	0.0068	0.0002
4	79.6250	0.0750	443.7675	16.2082	0.0102	0.0004
5	79.6500	0.1000	590.2380	29.0898	0.0135	0.0007
6	79.6750	0.1250	736.7085	45.6428	0.0169	0.0010
7	79.7000	0.1500	883.1790	65.8638	0.0203	0.0015
8	79.7250	0.1750	1029.6495	89.7507	0.0236	0.0021
9	79.7500	0.2000	1176.1200	117.3026	0.0270	0.0027
10	79.7750	0.2250	1475.5950	150.3783	0.0339	0.0035
11	79.8000	0.2500	1775.0700	190.9540	0.0408	0.0044
12	79.8250	0.2750	2074.5450	239.0256	0.0476	0.0055
13	79.8500	0.3000	2374.0200	294.5906	0.0545	0.0068
14	79.8750	0.3250	2673.4950	357.6475	0.0614	0.0082
15	79.9000	0.3500	2972.9700	428.1952	0.0683	0.0098
16	79.9250	0.3750	3272.4450	506.2330	0.0751	0.0116
17	79.9500	0.4000	3571.9200	591.7602	0.0820	0.0136
18	79.9625	0.4125	3773.3850	637.6626	0.0866	0.0146
19	79.9750	0.4250	3974.8500	686.0836	0.0912	0.0158
20	79.9875	0.4375	4176.3150	737.0232	0.0959	0.0169
21	80.0000	0.4500	4377.7800	790.4814	0.1005	0.0181
22	80.0125	0.4625	4579.2450	846.4581	0.1051	0.0194
23	80.0250	0.4750	4780.7100	904.9533	0.1098	0.0208
24	80.0375	0.4875	4982.1750	965.9670	0.1144	0.0222
25	80.0500	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	80.0625	0.5125	5477.6700	1095.1239	0.1258	0.0252
27	80.0750	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	80.0875	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	80.1000	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	80.1125	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	80.1250	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	80.1375	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	80.1500	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	80.1625	0.6125	7900.6950	1761.8875	0.1814	0.0404
35	80.1750	0.6250	8265.5100	1862.9177	0.1897	0.0428
36	80.1875	0.6375	8630.3250	1968.5084	0.1981	0.0452
37	80.2000	0.6500	8995.1400	2078.6597	0.2065	0.0477
38	80.2125	0.6625	9359.9550	2193.3715	0.2149	0.0504
39	80.2250	0.6750	9724.7700	2312.6438	0.2233	0.0531
40	80.2375	0.6875	10089.5850	2436.4765	0.2316	0.0559
41	80.2500	0.7000	10454.4000	2564.8697	0.2400	0.0589
42	80.2750	0.7250	11287.4850	2836.5767	0.2591	0.0651
43	80.3000	0.7500	12120.5700	3129.1156	0.2782	0.0718
44	80.3250	0.7750	12953.6550	3442.4857	0.2974	0.0790
45	80.3500	0.8000	13786.7400	3776.6866	0.3165	0.0867
46	80.3750	0.8250	14619.8250	4131.7177	0.3356	0.0949
47	80.4000	0.8500	15452.9100	4507.5788	0.3548	0.1035
48	80.4250	0.8750	16285.9950	4904.2696	0.3739	0.1126
49	80.4500	0.9000	17119.0800	5321.7897	0.3930	0.1222
50	88.1500	8.6000	17119.0800	137138.7057	0.3930	3.1483

Variable storage data for node | D-7

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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	78.7190	0.0000	4.3560	0.0000	0.0001	0.0000
2	78.7440	0.0250	150.8265	1.5068	0.0035	0.0000
3	78.7690	0.0500	297.2970	7.0058	0.0068	0.0002
4	78.7940	0.0750	443.7675	16.2082	0.0102	0.0004
5	78.8190	0.1000	590.2380	29.0898	0.0135	0.0007
6	78.8440	0.1250	736.7085	45.6428	0.0169	0.0010
7	78.8690	0.1500	883.1790	65.8638	0.0203	0.0015
8	78.8940	0.1750	1029.6495	89.7507	0.0236	0.0021
9	78.9190	0.2000	1176.1200	117.3026	0.0270	0.0027
10	78.9440	0.2250	1475.5950	150.3783	0.0339	0.0035
11	78.9690	0.2500	1775.0700	190.9540	0.0408	0.0044
12	78.9940	0.2750	2074.5450	239.0256	0.0476	0.0055
13	79.0190	0.3000	2374.0200	294.5906	0.0545	0.0068
14	79.0440	0.3250	2673.4950	357.6475	0.0614	0.0082
15	79.0690	0.3500	2972.9700	428.1952	0.0683	0.0098
16	79.0940	0.3750	3272.4450	506.2330	0.0751	0.0116
17	79.1190	0.4000	3571.9200	591.7602	0.0820	0.0136
18	79.1315	0.4125	3773.3850	637.6626	0.0866	0.0146
19	79.1440	0.4250	3974.8500	686.0836	0.0912	0.0158
20	79.1565	0.4375	4176.3150	737.0232	0.0959	0.0169
21	79.1690	0.4500	4377.7800	790.4814	0.1005	0.0181
22	79.1815	0.4625	4579.2450	846.4581	0.1051	0.0194
23	79.1940	0.4750	4780.7100	904.9533	0.1098	0.0208
24	79.2065	0.4875	4982.1750	965.9670	0.1144	0.0222
25	79.2190	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	79.2315	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	79.2440	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	79.2565	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	79.2690	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	79.2815	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	79.2940	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	79.3065	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	79.3190	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	79.3315	0.6125	7900.6950	1761.8875	0.1814	0.0404
35	79.3440	0.6250	8265.5100	1862.9177	0.1897	0.0428
36	79.3565	0.6375	8630.3250	1968.5084	0.1981	0.0452
37	79.3690	0.6500	8995.1400	2078.6597	0.2065	0.0477
38	79.3815	0.6625	9359.9550	2193.3715	0.2149	0.0504
39	79.3940	0.6750	9724.7700	2312.6438	0.2233	0.0531
40	79.4065	0.6875	10089.5850	2436.4765	0.2316	0.0559
41	79.4190	0.7000	10454.4000	2564.8697	0.2400	0.0589
42	79.4440	0.7250	11287.4850	2836.5767	0.2591	0.0651
43	79.4690	0.7500	12120.5700	3129.1156	0.2782	0.0718
44	79.4940	0.7750	12953.6550	3442.4857	0.2974	0.0790
45	79.5190	0.8000	13786.7400	3776.6866	0.3165	0.0867
46	79.5440	0.8250	14619.8250	4131.7177	0.3356	0.0949
47	79.5690	0.8500	15452.9100	4507.5788	0.3548	0.1035
48	79.5940	0.8750	16285.9950	4904.2696	0.3739	0.1126
49	79.6190	0.9000	17119.0800	5321.7897	0.3930	0.1222
50	87.6600	8.9410	17119.0800	142976.3120	0.3930	3.2823

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| Variable storage data for node | D-31

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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	81.3500	0.0000	4.3560	0.0000	0.0001	0.0000
2	81.3750	0.0250	150.8265	1.5068	0.0035	0.0000
3	81.4000	0.0500	297.2970	7.0058	0.0068	0.0002
4	81.4250	0.0750	443.7675	16.2082	0.0102	0.0004
5	81.4500	0.1000	590.2380	29.0898	0.0135	0.0007
6	81.4750	0.1250	736.7085	45.6428	0.0169	0.0010
7	81.5000	0.1500	883.1790	65.8638	0.0203	0.0015
8	81.5250	0.1750	1029.6495	89.7507	0.0236	0.0021
9	81.5500	0.2000	1176.1200	117.3026	0.0270	0.0027
10	81.5750	0.2250	1475.5950	150.3783	0.0339	0.0035
11	81.6000	0.2500	1775.0700	190.9540	0.0408	0.0044
12	81.6250	0.2750	2074.5450	239.0256	0.0476	0.0055
13	81.6500	0.3000	2374.0200	294.5906	0.0545	0.0068
14	81.6750	0.3250	2673.4950	357.6475	0.0614	0.0082
15	81.7000	0.3500	2972.9700	428.1952	0.0683	0.0098
16	81.7250	0.3750	3272.4450	506.2330	0.0751	0.0116
17	81.7500	0.4000	3571.9200	591.7602	0.0820	0.0136
18	81.7625	0.4125	3773.3850	637.6626	0.0866	0.0146
19	81.7750	0.4250	3974.8500	686.0836	0.0912	0.0158
20	81.7875	0.4375	4176.3150	737.0232	0.0959	0.0169
21	81.8000	0.4500	4377.7800	790.4814	0.1005	0.0181
22	81.8125	0.4625	4579.2450	846.4581	0.1051	0.0194
23	81.8250	0.4750	4780.7100	904.9533	0.1098	0.0208
24	81.8375	0.4875	4982.1750	965.9670	0.1144	0.0222
25	81.8500	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	81.8625	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	81.8750	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	81.8875	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	81.9000	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	81.9125	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	81.9250	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	81.9375	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	81.9500	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	81.9625	0.6125	7900.6950	1761.8875	0.1814	0.0404
35	81.9750	0.6250	8265.5100	1862.9177	0.1897	0.0428
36	81.9875	0.6375	8630.3250	1968.5084	0.1981	0.0452
37	82.0000	0.6500	8995.1400	2078.6597	0.2065	0.0477
38	82.0125	0.6625	9359.9550	2193.3715	0.2149	0.0504
39	82.0250	0.6750	9724.7700	2312.6438	0.2233	0.0531
40	82.0375	0.6875	10089.5850	2436.4765	0.2316	0.0559
41	82.0500	0.7000	10454.4000	2564.8697	0.2400	0.0589
42	82.0750	0.7250	11287.4850	2836.5767	0.2591	0.0651
43	82.1000	0.7500	12120.5700	3129.1156	0.2782	0.0718
44	82.1250	0.7750	12953.6550	3442.4857	0.2974	0.0790
45	82.1500	0.8000	13786.7400	3776.6866	0.3165	0.0867
46	82.1750	0.8250	14619.8250	4131.7177	0.3356	0.0949
47	82.2000	0.8500	15452.9100	4507.5788	0.3548	0.1035
48	82.2250	0.8750	16285.9950	4904.2696	0.3739	0.1126
49	82.2500	0.9000	17119.0800	5321.7897	0.3930	0.1222
50	88.5800	7.2300	17119.0800	113685.5661	0.3930	2.6099

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| Variable storage data for node | D-10

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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	80.9000	0.0000	4.3560	0.0000	0.0001	0.0000
2	80.9250	0.0250	150.8265	1.5068	0.0035	0.0000
3	80.9500	0.0500	297.2970	7.0058	0.0068	0.0002
4	80.9750	0.0750	443.7675	16.2082	0.0102	0.0004
5	81.0000	0.1000	590.2380	29.0898	0.0135	0.0007
6	81.0250	0.1250	736.7085	45.6428	0.0169	0.0010
7	81.0500	0.1500	883.1790	65.8638	0.0203	0.0015
8	81.0750	0.1750	1029.6495	89.7507	0.0236	0.0021
9	81.1000	0.2000	1176.1200	117.3026	0.0270	0.0027
10	81.1250	0.2250	1475.5950	150.3783	0.0339	0.0035

11	81.1500	0.2500	1775.0700	190.9540	0.0408	0.0044
12	81.1750	0.2750	2074.5450	239.0256	0.0476	0.0055
13	81.2000	0.3000	2374.0200	294.5906	0.0545	0.0068
14	81.2250	0.3250	2673.4950	357.6475	0.0614	0.0082
15	81.2500	0.3500	2972.9700	428.1952	0.0683	0.0098
16	81.2750	0.3750	3272.4450	506.2330	0.0751	0.0116
17	81.3000	0.4000	3571.9200	591.7602	0.0820	0.0136
18	81.3125	0.4125	3773.3850	637.6626	0.0866	0.0146
19	81.3250	0.4250	3974.8500	686.0836	0.0912	0.0158
20	81.3375	0.4375	4176.3150	737.0232	0.0959	0.0169
21	81.3500	0.4500	4377.7800	790.4814	0.1005	0.0181
22	81.3625	0.4625	4579.2450	846.4581	0.1051	0.0194
23	81.3750	0.4750	4780.7100	904.9533	0.1098	0.0208
24	81.3875	0.4875	4982.1750	965.9670	0.1144	0.0222
25	81.4000	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	81.4125	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	81.4250	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	81.4375	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	81.4500	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	81.4625	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	81.4750	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	81.4875	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	81.5000	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	81.5125	0.6125	7900.6950	1761.8875	0.1814	0.0404
35	81.5250	0.6250	8265.5100	1862.9177	0.1897	0.0428
36	81.5375	0.6375	8630.3250	1968.5084	0.1981	0.0452
37	81.5500	0.6500	8995.1400	2078.6597	0.2065	0.0477
38	81.5625	0.6625	9359.9550	2193.3715	0.2149	0.0504
39	81.5750	0.6750	9724.7700	2312.6438	0.2233	0.0531
40	81.5875	0.6875	10089.5850	2436.4765	0.2316	0.0559
41	81.6000	0.7000	10454.4000	2564.8697	0.2400	0.0589
42	81.6250	0.7250	11287.4850	2836.5767	0.2591	0.0651
43	81.6500	0.7500	12120.5700	3129.1156	0.2782	0.0718
44	81.6750	0.7750	12953.6550	3442.4857	0.2974	0.0790
45	81.7000	0.8000	13786.7400	3776.6866	0.3165	0.0867
46	81.7250	0.8250	14619.8250	4131.7177	0.3356	0.0949
47	81.7500	0.8500	15452.9100	4507.5788	0.3548	0.1035
48	81.7750	0.8750	16285.9950	4904.2696	0.3739	0.1126
49	81.8000	0.9000	17119.0800	5321.7897	0.3930	0.1222
50	87.1600	6.2600	17119.0800	97080.0585	0.3930	2.2287

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| Variable storage data for node | D-6
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	78.1360	0.0000	4.3560	0.0000	0.0001	0.0000
2	78.1610	0.0250	150.8265	1.5068	0.0035	0.0000
3	78.1860	0.0500	297.2970	7.0058	0.0068	0.0002
4	78.2110	0.0750	443.7675	16.2082	0.0102	0.0004
5	78.2360	0.1000	590.2380	29.0898	0.0135	0.0007
6	78.2610	0.1250	736.7085	45.6428	0.0169	0.0010
7	78.2860	0.1500	883.1790	65.8638	0.0203	0.0015
8	78.3110	0.1750	1029.6495	89.7507	0.0236	0.0021
9	78.3360	0.2000	1176.1200	117.3026	0.0270	0.0027
10	78.3610	0.2250	1475.5950	150.3783	0.0339	0.0035
11	78.3860	0.2500	1775.0700	190.9540	0.0408	0.0044
12	78.4110	0.2750	2074.5450	239.0256	0.0476	0.0055
13	78.4360	0.3000	2374.0200	294.5906	0.0545	0.0068
14	78.4610	0.3250	2673.4950	357.6475	0.0614	0.0082
15	78.4860	0.3500	2972.9700	428.1952	0.0683	0.0098
16	78.5110	0.3750	3272.4450	506.2330	0.0751	0.0116
17	78.5360	0.4000	3571.9200	591.7602	0.0820	0.0136
18	78.5485	0.4125	3773.3850	637.6626	0.0866	0.0146
19	78.5610	0.4250	3974.8500	686.0836	0.0912	0.0158
20	78.5735	0.4375	4176.3150	737.0232	0.0959	0.0169
21	78.5860	0.4500	4377.7800	790.4814	0.1005	0.0181
22	78.5985	0.4625	4579.2450	846.4581	0.1051	0.0194
23	78.6110	0.4750	4780.7100	904.9533	0.1098	0.0208
24	78.6235	0.4875	4982.1750	965.9670	0.1144	0.0222
25	78.6360	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	78.6485	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	78.6610	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	78.6735	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	78.6860	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	78.6985	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	78.7110	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	78.7235	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	78.7360	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	78.7485	0.6125	7900.6950	1761.8875	0.1814	0.0404
35	78.7610	0.6250	8265.5100	1862.9177	0.1897	0.0428
36	78.7735	0.6375	8630.3250	1968.5084	0.1981	0.0452
37	78.7860	0.6500	8995.1400	2078.6597	0.2065	0.0477
38	78.7985	0.6625	9359.9550	2193.3715	0.2149	0.0504
39	78.8110	0.6750	9724.7700	2312.6438	0.2233	0.0531
40	78.8235	0.6875	10089.5850	2436.4765	0.2316	0.0559
41	78.8360	0.7000	10454.4000	2564.8697	0.2400	0.0589
42	78.8610	0.7250	11287.4850	2836.5767	0.2591	0.0651
43	78.8860	0.7500	12120.5700	3129.1156	0.2782	0.0718
44	78.9110	0.7750	12953.6550	3442.4857	0.2974	0.0790
45	78.9360	0.8000	13786.7400	3776.6866	0.3165	0.0867
46	78.9610	0.8250	14619.8250	4131.7177	0.3356	0.0949
47	78.9860	0.8500	15452.9100	4507.5788	0.3548	0.1035
48	79.0110	0.8750	16285.9950	4904.2696	0.3739	0.1126
49	79.0360	0.9000	17119.0800	5321.7897	0.3930	0.1222
50	88.0000	9.8640	17119.0800	158777.2228	0.3930	3.6450

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| Variable storage data for node | D-20
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	77.6000	0.0000	4.3560	0.0000	0.0001	0.0000
2	77.6250	0.0250	150.8265	1.5068	0.0035	0.0000
3	77.6500	0.0500	297.2970	7.0058	0.0068	0.0002
4	77.6750	0.0750	443.7675	16.2082	0.0102	0.0004
5	77.7000	0.1000	590.2380	29.0898	0.0135	0.0007
6	77.7250	0.1250	736.7085	45.6428	0.0169	0.0010
7	77.7500	0.1500	883.1790	65.8638	0.0203	0.0015
8	77.7750	0.1750	1029.6495	89.7507	0.0236	0.0021
9	77.8000	0.2000	1176.1200	117.3026	0.0270	0.0027
10	77.8250	0.2250	1475.5950	150.3783	0.0339	0.0035
11	77.8500	0.2500	1775.0700	190.9540	0.0408	0.0044
12	77.8750	0.2750	2074.5450	239.0256	0.0476	0.0055
13	77.9000	0.3000	2374.0200	294.5906	0.0545	0.0068
14	77.9250	0.3250	2673.4950	357.6475	0.0614	0.0082
15	77.9500	0.3500	2972.9700	428.1952	0.0683	0.0098
16	77.9750	0.3750	3272.4450	506.2330	0.0751	0.0116
17	78.0000	0.4000	3571.9200	591.7602	0.0820	0.0136
18	78.0125	0.4125	3773.3850	637.6626	0.0866	0.0146
19	78.0250	0.4250	3974.8500	686.0836	0.0912	0.0158
20	78.0375	0.4375	4176.3150	737.0232	0.0959	0.0169
21	78.0500	0.4500	4377.7800	790.4814	0.1005	0.0181
22	78.0625	0.4625	4579.2450	846.4581	0.1051	0.0194
23	78.0750	0.4750	4780.7100	904.9533	0.1098	0.0208
24	78.0875	0.4875	4982.1750	965.9670	0.1144	0.0222

25	78.1000	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	78.1125	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	78.1250	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	78.1375	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	78.1500	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	78.1625	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	78.1750	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	78.1875	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	78.2000	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	78.2125	0.6125	7900.6950	1761.8875	0.1814	0.0404
35	78.2250	0.6250	8265.5100	1862.9177	0.1897	0.0428
36	78.2375	0.6375	8630.3250	1968.5084	0.1981	0.0452
37	78.2500	0.6500	8995.1400	2078.6597	0.2065	0.0477
38	78.2625	0.6625	9359.9550	2193.3715	0.2149	0.0504
39	78.2750	0.6750	9724.7700	2312.6438	0.2233	0.0531
40	78.2875	0.6875	10089.5850	2436.4765	0.2316	0.0559
41	78.3000	0.7000	10454.4000	2564.8697	0.2400	0.0589
42	78.3250	0.7250	11287.4850	2836.5767	0.2591	0.0651
43	78.3500	0.7500	12120.5700	3129.1156	0.2782	0.0718
44	78.3750	0.7750	12953.6550	3442.4857	0.2974	0.0790
45	78.4000	0.8000	13786.7400	3776.6866	0.3165	0.0867
46	78.4250	0.8250	14619.8250	4131.7177	0.3356	0.0949
47	78.4500	0.8500	15452.9100	4507.5788	0.3548	0.1035
48	78.4750	0.8750	16285.9950	4904.2696	0.3739	0.1126
49	78.5000	0.9000	17119.0800	5321.7897	0.3930	0.1222
50	87.6400	10.0400	17119.0800	161790.1809	0.3930	3.7142

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| Variable storage data for node | D-1
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	80.9000	0.0000	4.3560	0.0000	0.0001	0.0000
2	80.9250	0.0250	150.8265	1.5068	0.0035	0.0000
3	80.9500	0.0500	297.2970	7.0058	0.0068	0.0002
4	80.9750	0.0750	443.7675	16.2082	0.0102	0.0004
5	81.0000	0.1000	590.2380	29.0898	0.0135	0.0007
6	81.0250	0.1250	736.7085	45.6428	0.0169	0.0010
7	81.0500	0.1500	883.1790	65.8638	0.0203	0.0015
8	81.0750	0.1750	1029.6495	89.7507	0.0236	0.0021
9	81.1000	0.2000	1176.1200	117.3026	0.0270	0.0027
10	81.1250	0.2250	1475.5950	150.3783	0.0339	0.0035
11	81.1500	0.2500	1775.0700	190.9540	0.0408	0.0044
12	81.1750	0.2750	2074.5450	239.0256	0.0476	0.0055
13	81.2000	0.3000	2374.0200	294.5906	0.0545	0.0068
14	81.2250	0.3250	2673.4950	357.6475	0.0614	0.0082
15	81.2500	0.3500	2972.9700	428.1952	0.0683	0.0098
16	81.2750	0.3750	3272.4450	506.2330	0.0751	0.0116
17	81.3000	0.4000	3571.9200	591.7602	0.0820	0.0136
18	81.3125	0.4125	3773.3850	637.6626	0.0866	0.0146
19	81.3250	0.4250	3974.8500	686.0836	0.0912	0.0158
20	81.3375	0.4375	4176.3150	737.0232	0.0959	0.0169
21	81.3500	0.4500	4377.7800	790.4814	0.1005	0.0181
22	81.3625	0.4625	4579.2450	846.4581	0.1051	0.0194
23	81.3750	0.4750	4780.7100	904.9533	0.1098	0.0208
24	81.3875	0.4875	4982.1750	965.9670	0.1144	0.0222
25	81.4000	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	81.4125	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	81.4250	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	81.4375	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	81.4500	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	81.4625	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	81.4750	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	81.4875	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	81.5000	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	81.5125	0.6125	7900.6950	1761.8875	0.1814	0.0404
35	81.5250	0.6250	8265.5100	1862.9177	0.1897	0.0428
36	81.5375	0.6375	8630.3250	1968.5084	0.1981	0.0452
37	81.5500	0.6500	8995.1400	2078.6597	0.2065	0.0477
38	81.5625	0.6625	9359.9550	2193.3715	0.2149	0.0504
39	81.5750	0.6750	9724.7700	2312.6438	0.2233	0.0531
40	81.5875	0.6875	10089.5850	2436.4765	0.2316	0.0559
41	81.6000	0.7000	10454.4000	2564.8697	0.2400	0.0589
42	81.6250	0.7250	11287.4850	2836.5767	0.2591	0.0651
43	81.6500	0.7500	12120.5700	3129.1156	0.2782	0.0718
44	81.6750	0.7750	12953.6550	3442.4857	0.2974	0.0790
45	81.7000	0.8000	13786.7400	3776.6866	0.3165	0.0867
46	81.7250	0.8250	14619.8250	4131.7177	0.3356	0.0949
47	81.7500	0.8500	15452.9100	4507.5788	0.3548	0.1035
48	81.7750	0.8750	16285.9950	4904.2696	0.3739	0.1126
49	81.8000	0.9000	17119.0800	5321.7897	0.3930	0.1222
50	88.1400	7.2400	17119.0800	113856.7569	0.3930	2.6138

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| Variable storage data for node | D-18
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	80.7000	0.0000	4.3560	0.0000	0.0001	0.0000
2	80.7250	0.0250	150.8265	1.5068	0.0035	0.0000
3	80.7500	0.0500	297.2970	7.0058	0.0068	0.0002
4	80.7750	0.0750	443.7675	16.2082	0.0102	0.0004
5	80.8000	0.1000	590.2380	29.0898	0.0135	0.0007
6	80.8250	0.1250	736.7085	45.6428	0.0169	0.0010
7	80.8500	0.1500	883.1790	65.8638	0.0203	0.0015
8	80.8750	0.1750	1029.6495	89.7507	0.0236	0.0021
9	80.9000	0.2000	1176.1200	117.3026	0.0270	0.0027
10	80.9250	0.2250	1475.5950	150.3783	0.0339	0.0035
11	80.9500	0.2500	1775.0700	190.9540	0.0408	0.0044
12	80.9750	0.2750	2074.5450	239.0256	0.0476	0.0055
13	81.0000	0.3000	2374.0200	294.5906	0.0545	0.0068
14	81.0250	0.3250	2673.4950	357.6475	0.0614	0.0082
15	81.0500	0.3500	2972.9700	428.1952	0.0683	0.0098
16	81.0750	0.3750	3272.4450	506.2330	0.0751	0.0116
17	81.1000	0.4000	3571.9200	591.7602	0.0820	0.0136
18	81.1125	0.4125	3773.3850	637.6626	0.0866	0.0146
19	81.1250	0.4250	3974.8500	686.0836	0.0912	0.0158
20	81.1375	0.4375	4176.3150	737.0232	0.0959	0.0169
21	81.1500	0.4500	4377.7800	790.4814	0.1005	0.0181
22	81.1625	0.4625	4579.2450	846.4581	0.1051	0.0194
23	81.1750	0.4750	4780.7100	904.9533	0.1098	0.0208
24	81.1875	0.4875	4982.1750	965.9670	0.1144	0.0222
25	81.2000	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	81.2125	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	81.2250	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	81.2375	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	81.2500	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	81.2625	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	81.2750	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	81.2875	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	81.3000	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	81.3125	0.6125	7900.6950	1761.8875	0.1814	0.0404
35	81.3250	0.6250	8265.5100	1862.9177	0.1897	0.0428
36	81.3375	0.6375	8630.3250	1968.5084	0.1981	0.0452
37	81.3500	0.6500	8995.1400	2078.6597	0.2065	0.0477
38	81.3625	0.6625	9359.9550	2193.3715	0.2149	0.0504

39	81.3750	0.6750	9724.7700	2312.6438	0.2233	0.0531
40	81.3875	0.6875	10089.5850	2436.4765	0.2316	0.0559
41	81.4000	0.7000	10454.4000	2564.8697	0.2400	0.0589
42	81.4250	0.7250	11287.4850	2836.5767	0.2591	0.0651
43	81.4500	0.7500	12120.5700	3129.1156	0.2782	0.0718
44	81.4750	0.7750	12953.6550	3442.4857	0.2974	0.0790
45	81.5000	0.8000	13786.7400	3776.6866	0.3165	0.0867
46	81.5250	0.8250	14619.8250	4131.7177	0.3356	0.0949
47	81.5500	0.8500	15452.9100	4507.5788	0.3548	0.1035
48	81.5750	0.8750	16285.9950	4904.2696	0.3739	0.1126
49	81.6000	0.9000	17119.0800	5321.7897	0.3930	0.1222
50	86.7400	6.0400	17119.0800	93313.8609	0.3930	2.1422

FREE OUTFALL DATA (DATA GROUP I1)
BOUNDARY CONDITION ON DATA GROUP J1

Outfall at Junction....SYS-D-OUT has boundary condition number... 1

INTERNAL CONNECTIVITY INFORMATION

CONDUIT	JUNCTION	JUNCTION
FREE # 1	SYS-D-OUT	BOUNDARY

Boundary Condition Information
Data Groups J1-J4

XP Note Field Summary

Table E9 - JUNCTION SUMMARY STATISTICS
The Maximum area is only the area of the node, it does not include the area of the surrounding conduits

Junction Name	Ground Elevation feet	Uppermost PipeCrown Elevation feet	Maximum Junction Elevation feet	Time of Occurence Hr.	Time of Occurence Min.	Feet of Surcharge at Max Elevation	Freeboard of node feet	Maximum Junction Area ft^2	Maximum Gutter Depth feet	Maximum Gutter Width feet	Maximum Gutter Velocity ft/s
D-OUT1	88.0100	83.7700	89.1452	18	15	5.3752	0.0000	15558.316	0.0000	0.0000	0.0000
D-21	87.7200	81.5640	89.1459	18	16	7.5819	0.0000	20807.482	0.0000	0.0000	0.0000
D-35	88.1500	83.0500	89.1533	18	19	6.1033	0.0000	17119.080	0.0000	0.0000	0.0000
D-7	87.6600	81.7190	89.1472	18	17	7.4282	0.0000	17119.080	0.0000	0.0000	0.0000
D-34	88.1500	83.3380	89.1570	18	20	5.8190	0.0000	13686.804	0.0000	0.0000	0.0000
D-8	87.3600	82.2120	89.1502	18	20	6.9382	0.0000	29953.889	0.0000	0.0000	0.0000
D-32	88.3800	84.1300	89.2022	17	4	5.0722	0.0000	11377.288	0.0000	0.0000	0.0000
D-9	87.3600	82.9970	89.1551	18	24	6.1581	0.0000	30099.477	0.0000	0.0000	0.0000
D-31	88.5800	84.3500	89.2273	17	1	4.8773	0.0000	8917.0512	0.0000	0.0000	0.0000
D-10	87.1600	83.4000	89.1566	18	23	5.7566	0.0000	17119.080	0.0000	0.0000	0.0000
D-30	88.7900	84.5810	89.2637	16	58	4.6827	0.0000	8029.7335	0.0000	0.0000	0.0000
D-11	86.9700	83.8210	89.1592	18	18	5.3382	0.0000	44641.213	0.0000	0.0000	0.0000
D-29	89.2200	85.0940	89.4347	29	48	4.3407	0.0000	6431.9235	0.0000	0.0000	0.0000
D-OUT2	87.7100	84.1100	89.3384	17	57	5.2284	0.0000	25478.721	0.0000	0.0000	0.0000
D-6	88.0000	82.1360	89.3670	17	50	7.2310	0.0000	17119.080	0.0000	0.0000	0.0000
D-20	87.6400	81.1000	89.3362	18	2	8.2362	0.0000	17119.080	0.0000	0.0000	0.0000
D-5	88.0900	82.3610	89.3988	17	43	7.0378	0.0000	18507.769	0.0000	0.0000	0.0000
D-14	87.5600	81.3770	89.3333	18	6	7.9563	0.0000	29452.191	0.0000	0.0000	0.0000
D-4	88.1500	82.7520	89.4721	17	27	6.7201	0.0000	18757.137	0.0000	0.0000	0.0000
D-15	87.4500	81.7970	89.3255	18	22	7.5285	0.0000	32620.458	0.0000	0.0000	0.0000
D-2	88.1500	83.5020	89.6236	17	14	6.1216	0.0000	21824.371	0.0000	0.0000	0.0000
D-16	87.1800	82.4430	89.3247	18	29	6.8817	0.0000	42699.041	0.0000	0.0000	0.0000
D-1	88.1400	83.9000	89.8127	17	5	5.9127	0.0000	17119.080	0.0000	0.0000	0.0000
D-17	86.9400	82.7910	89.3266	18	32	6.5356	0.0000	54380.092	0.0000	0.0000	0.0000
D-3	88.4000	84.3200	89.8230	17	7	5.5030	0.0000	20747.285	0.0000	0.0000	0.0000
D-18	86.7400	83.2000	89.3280	18	35	6.1280	0.0000	17119.080	0.0000	0.0000	0.0000
D-19	86.7500	83.6170	89.3329	18	42	5.7159	0.0000	66179.140	0.0000	0.0000	0.0000
SYS-D-OUT	87.0000	82.9600	89.0700	25	44	6.1100	0.0000	39624.116	0.0000	0.0000	0.0000
MH-D1	88.0000	83.6600	89.0894	18	15	5.4294	0.0000	14861.970	0.0000	0.0000	0.0000
MH-D2	88.0400	84.2600	89.4250	17	50	5.1650	0.0000	19974.282	0.0000	0.0000	0.0000

Table E10 - CONDUIT SUMMARY STATISTICS
Note: The peak flow may be less than the design flow and the conduit may still surcharge because of the downstream boundary conditions.

* denotes an open conduit that has been overtopped this is a potential source of severe errors

Conduit Name	Design Flow (cfs)	Conduit Design Velocity (ft/s)	Maximum Vertical Depth (in)	Maximum Computed Flow (cfs)	Time of Occurence Hr.	Time of Occurence Min.	Maximum Computed Velocity (ft/s)	Time of Occurence Hr.	Time of Occurence Min.	Ratio of Max. to Design Flow	Maximum Water Elev at Pipe Ends Upstream (ft)	Maximum Water Elev at Pipe Ends Dwnstrm (ft)	Ratio d/D US	Ratio d/D DS
L_L-D-21	35.3998	5.0081	36.0000	33.4311	0	0	7.2390	0	0	0.9444	89.1459	89.1452	3.527	3.553
L_L-D-35	45.0129	4.6785	42.0000	42.1825	16	8	7.1297	0	0	0.9371	89.1533	89.1452	2.744	2.866
L_L-D-7	35.2490	4.9867	36.0000	24.3907	16	0	6.2613	0	0	0.6920	89.1472	89.1459	3.476	3.527
L_L-D-34	44.9976	4.6770	42.0000	37.6481	16	8	4.9230	0	0	0.8367	89.1570	89.1533	2.663	2.744
L_L-D-8	35.3024	4.9943	36.0000	21.4722	15	52	4.9646	0	0	0.6082	89.1502	89.1472	3.313	3.476
L_L-D-32	29.8295	4.2200	36.0000	27.0966	0	0	6.5558	0	0	0.9084	89.2022	89.1570	2.691	2.940
L_L-D-9	21.7037	4.4214	30.0000	19.8235	0	0	6.3235	0	0	0.9134	89.1551	89.1502	3.463	3.775
L_L-D-31	29.8168	4.2182	36.0000	21.2613	16	14	3.8670	0	0	0.7131	89.2273	89.2022	2.626	2.691
L_L-D-10	21.7078	4.4223	30.0000	14.3826	32	21	3.9354	0	0	0.6626	89.1566	89.1551	3.303	3.463
L_L-D-30	18.3577	3.7398	30.0000	15.0625	30	42	5.6963	0	0	0.8205	89.2637	89.2273	2.873	2.951
L_L-D-11	11.9644	3.8084	24.0000	11.7581	32	21	4.3997	0	0	0.9828	89.1592	89.1566	3.669	3.878
L_L-D-29	10.1217	3.2218	24.0000	10.0450	29	49	4.5966	0	0	0.9924	89.4347	89.2637	3.170	3.341
L_L-D-6	75.9843	6.0466	48.0000	53.0456	15	59	6.9378	0	0	0.6981	89.3670	89.3384	2.808	2.908
L_L-D-20	53.2776	5.5376	42.0000	40.6385	0	0	7.2305	0	0	0.7628	89.3362	89.3384	3.353	3.407
L_L-D-5	53.2450	5.5342	42.0000	50.6918	15	59	7.0564	0	0	0.9520	89.3988	89.3670	3.011	3.066
L_L-D-14	53.2230	5.5319	42.0000	29.9974	0	0	6.0181	0	0	0.5636	89.3333	89.3362	3.273	3.353
L_L-D-4	53.2409	5.5337	42.0000	49.3398	15	58	5.9424	0	0	0.9267	89.4721	89.3988	2.920	3.011
L_L-D-15	35.2935	4.9930	36.0000	28.3612	0	0	6.7049	0	0	0.8036	89.3255	89.3333	3.510	3.652
L_L-D-2	53.2316	5.5328	42.0000	44.6465	15	58	5.2594	0	0	0.8387	89.6236	89.4721	2.749	2.920
L_L-D-16	35.3030	4.9944	36.0000	23.5410	32	29	5.0540	0	0	0.6668	89.3247	89.3255	3.294	3.510
L_L-D-1	35.3117	4.9956	36.0000	39.8852	15	57	7.0964	0	0	1.1295	89.8127	89.6236	2.971	3.041
L_L-D-17	35.2760	4.9905	36.0000	24.9546	32	30	4.7498	0	0	0.6819	89.3266	89.3247	3.179	3.294
L_L-D-3	11.9693	3.8099	24.0000	7.8594	31	32	4.4604	0	0	0.6566	89.8230	89.8127	3.751	3.956
L_L-D-18	21.7083	4.4224	30.0000	21.0491	32	34	6.2097	0	0	0.9696	89.3280	89.3266	3.451	3.614
L_L-D-19	11.9684	3.8097	24.0000	16.6787	32	34	5.3059	0	0	1.3936	89.3329	89.3280	3.858	4.064
L_L-D-OUT1	652.4049	6.7959	144.0000	592.3420	16	24	-7.3272	0	0	0.9079	89.1452	89.0894	1.448	1.452
L_L-MH-D1	1301.098	13.5531	144.0000	591.4917	16	23	6.7923	0	2	0.4546	89.0894	89.0700	1.452	1.509
Link837	617.5196	6.4325	144.0000	576.7082	16	37	5.9953	16	37	0.9339	89.3384	89.1452	1.436	1.448
L_L-MH-D2	622.0437	6.4796	144.0000	591.7562	16	32	6.1521	16	32	0.9513	89.4250	89.3384	1.430	1.436

FREE # 1 Undefnd Undefnd Undefn 591.4828 16 23

Table E15 - SPREADSHEET INFO LIST
Conduit Flow and Junction Depth Information for use in spreadsheets. The maximum values in this table are the true maximum values because they sample every time step. The values in the review results may only be the maximum of a subset of all the time steps in the run. Note: These flows are only the flows in a single barrel.

Conduit Name	Maximum Flow (cfs)	Total Flow (ft^3)	Maximum Velocity (ft/s)	Maximum Volume (ft^3)	##	Junction Name	Invert Elevation (ft)	Maximum Elevation (ft)
L_L-D-21	33.4311	181946.2060	7.2390	205.1875	##	D-OUT1	71.7700	89.1452
L_L-D-35	42.1825	360292.2465	7.1297	2191.8818	##	D-21	78.5640	89.1459
L_L-D-7	24.3907	169221.0280	6.2613	411.2419	##	D-35	79.5500	89.1533
L_L-D-34	37.6481	333378.3435	4.9230	1452.1603	##	D-7	78.7190	89.1472
L_L-D-8	21.4722	150185.6261	4.9646	1302.4343	##	D-34	79.8380	89.1570
L_L-D-32	27.0966	263517.8560	6.5558	2884.1787	##	D-8	79.2120	89.1502
L_L-D-9	19.8235	102796.5774	6.3235	1401.9511	##	D-32	81.1300	89.2022
L_L-D-31	21.2613	230145.0094	3.8670	815.7554	##	D-9	80.4970	89.1551
L_L-D-10	14.3826	73997.2451	3.9354	739.7623	##	D-31	81.3500	89.2273
L_L-D-30	15.0625	192821.7247	5.6963	593.4358	##	D-10	80.9000	89.1566
L_L-D-11	11.7581	25174.8284	4.3997	491.9123	##	D-30	82.0810	89.2637
L_L-D-29	10.0450	146944.0041	4.5966	831.6569	##	D-11	81.8210	89.1592
L_L-D-6	53.0456	407386.9766	6.9378	2024.4043	##	D-29	83.0940	89.4347
L_L-D-20	40.6385	236350.6269	7.2305	668.9981	##	D-OUT2	72.1100	89.3384
L_L-D-5	50.6918	393140.6754	7.0564	810.2634	##	D-6	78.1360	89.3670
L_L-D-14	29.9974	213380.1140	6.0181	998.3482	##	D-20	77.6000	89.3362
L_L-D-4	49.3398	384274.9327	5.9424	1408.2759	##	D-5	78.8610	89.3988
L_L-D-15	28.3612	153281.1221	6.7049	1111.5247	##	D-14	77.8770	89.3333
L_L-D-2	44.6465	346980.6136	5.2594	2680.1679	##	D-4	79.2520	89.4721
L_L-D-16	23.5410	134688.8897	5.0540	1694.4784	##	D-15	78.7970	89.3255
L_L-D-1	39.8852	321485.4827	7.0964	1052.2137	##	D-2	80.0020	89.6236
L_L-D-17	24.0546	111214.1085	4.7498	921.8912	##	D-16	79.4430	89.3247
L_L-D-3	7.8594	28933.3749	4.4604	490.3946	##	D-1	80.9000	89.8127
L_L-D-18	21.0491	90076.0357	6.2097	750.5333	##	D-17	79.7910	89.3266
L_L-D-19	16.6787	41561.9358	5.3059	489.8907	##	D-3	82.3200	89.8230
L_L-D-OUT1	592.3420	15453377.23	-7.3272	9695.8349	##	D-18	80.7000	89.3280
L_L-MH-D1	591.4917	15451446.60	6.7923	15399.1040	##	D-19	81.6170	89.3329
Link837	576.7082	14914873.53	5.9953	33194.1772	##	SYS-D-OUT	70.9600	89.0700
L_L-MH-D2	591.7562	14275128.98	6.1521	14526.3760	##	MH-D1	71.6600	89.0894
FREE # 1	591.4828	15451762.92	0.0000	0.0000	##	MH-D2	72.2600	89.4250

Table E15a - SPREADSHEET REACH LIST
Peak flow and Total Flow listed by Reach or those conduits or diversions having the same upstream and downstream nodes.

Upstream Node	Downstream Node	Maximum Flow (cfs)	Total Flow (ft^3)
D-21	D-OUT1	33.4311	181946.206
D-35	D-OUT1	42.1825	360292.247
D-7	D-21	24.3907	169221.028
D-34	D-35	37.6481	333378.344
D-8	D-7	21.4722	150185.626
D-32	D-34	27.0966	263517.856
D-9	D-8	19.8235	102796.577
D-31	D-32	21.2613	230145.009
D-10	D-9	14.3826	73997.2451
D-30	D-31	15.0625	192821.725
D-11	D-10	11.7581	25174.8284
D-29	D-30	10.0450	146944.004
D-6	D-OUT2	53.0456	407386.977
D-20	D-OUT2	40.6385	236350.627
D-5	D-6	50.6918	393140.675
D-14	D-20	29.9974	213380.114
D-4	D-5	49.3398	384274.933
D-15	D-14	28.3612	153281.122
D-2	D-4	44.6465	346980.614
D-16	D-15	23.5410	134688.890

D-1	D-2	39.8852	321485.483
D-17	D-16	24.0546	111214.108
D-3	D-1	7.8594	28933.3749
D-18	D-17	21.0491	90076.0357
D-19	D-18	16.6787	41561.9358
D-OUT1	MH-D1	592.3420	15453377.2
MH-D1	SYS-D-OUT	591.4917	15451446.6
D-OUT2	D-OUT1	576.7082	14914873.5
MH-D2	D-OUT2	591.7562	14275129.0

Table E18 - Junction Continuity Error. Division by Volume added 11/96

Continuity Error = Net Flow + Beginning Volume - Ending Volume / Total Flow + (Beginning Volume + Ending Volume)/2

Net Flow = Node Inflow - Node Outflow
Total Flow = absolute (Inflow + Outflow)
Intermediate column is a judgement on the node continuity error.

Excellent < 1 percent Great 1 to 2 percent Good 2 to 5 percent
Fair 5 to 10 percent Poor 10 to 25 percent Bad 25 to 50 percent
Terrible > 50 percent

Junction Name	<------Continuity Error -------> Volume	% of Node	% of Inflow	Remaining Volume	Beginning Volume	Net Flow Thru Node	Total Flow Thru Node	Failed to Converge
D-OUT1	69.4477	0.0002	0.0005	7153.9834	3328.6102	3894.8209	30910489.21	0
D-21	-292.1450	-0.0804	0.0019	0.0006	214.3224	-506.4668	363362.2394	0
D-35	-305.2150	-0.0424	0.0020	0.0064	1018.6077	-1323.8162	719248.6022	0
D-7	-472.1750	-0.1398	0.0031	0.0012	520.2511	-992.4249	337442.6620	0
D-34	1256.9533	0.1883	0.0082	0.0045	1219.6973	37.2606	666790.2352	0
D-8	-671.4916	-0.2244	0.0044	0.0023	827.8887	-1499.3780	298873.2233	0
D-32	-457.8930	-0.0870	0.0030	0.0032	1039.6610	-1497.5508	525504.8794	0
D-9	-1741.2520	-0.8556	0.0113	0.0023	658.9557	-2400.2054	203190.8334	0
D-31	1321.3764	0.2864	0.0086	0.0012	374.1215	947.2562	461243.7508	0
D-10	-723.3145	-0.4917	0.0047	0.0015	309.2963	-1032.6094	146962.0936	0
D-30	-909.0632	-0.2365	0.0059	0.0020	335.2713	-1244.3325	384261.7523	0
D-11	-814.0771	-1.6450	0.0053	0.0010	98.6262	-912.7023	49438.8386	0
D-29	-115773.092	-64.9867	0.7533	0.0015	183.9402	-115957.031	178057.0185	0
D-OUT2	-163.9014	-0.0005	0.0011	7703.4100	3307.8128	4231.6959	29833740.11	0
D-6	247.2653	0.0304	0.0016	4.5970	704.9916	-453.1293	814306.6581	0
D-20	-933.2784	-0.1979	0.0061	0.0011	481.6845	-1414.9619	471276.7501	0
D-5	378.2716	0.0481	0.0025	4.6658	612.3840	-229.4467	786037.6119	0
D-14	-547.2890	-0.1285	0.0036	0.0012	608.9900	-1156.2777	425602.2646	0
D-4	818.7996	0.1065	0.0053	7.8691	1058.3966	-231.7279	768308.5614	0
D-15	-1409.2775	-0.4624	0.0092	0.0021	808.0515	-2217.3269	304341.0186	0
D-2	1405.7458	0.2023	0.0091	6.9899	969.7804	442.9554	694386.1068	0
D-16	-1726.2903	-0.6458	0.0112	0.0018	726.1306	-2452.4192	266927.0070	0
D-1	617.8585	0.0960	0.0040	3.5066	395.6162	225.7489	643198.0350	0
D-17	-482.4690	-0.2176	0.0031	0.0014	469.4009	-951.8685	221477.1527	0
D-3	-2903.5912	-5.2868	0.0189	0.0010	101.1926	-3004.7827	54871.3856	0
D-18	-254.0376	-0.1414	0.0017	0.0019	358.8329	-612.8687	179535.9915	0
D-19	-636.6824	-0.7725	0.0041	0.0010	137.7725	-774.4539	82349.9555	0
SYS-D-OUT	-3120.8033	-0.0101	0.0203	2983.7750	57.3011	-194.3294	30948439.32	0
MH-D1	-2434.7013	-0.0079	0.0158	4640.9874	0.0000	2206.2861	30904823.83	0
MH-D2	-364.6312	-0.0013	0.0024	2262.9822	0.0000	1898.3510	28552157.75	0

The total continuity error was -1.31021E+05 cubic feet
The remaining total volume was 24773. cubic feet
Your mean node continuity error was Excellent
Your worst node continuity error was Excellent

Table E19 - Junction Inflow & Outflow Listing
Units are either ft^3 or m^3 depending on the units in your model.

Junction Name	Constant Inflow to Node	User Inflow to Node	Interface Inflow to Node	DWF Inlow to Node	Inflow through Outfall	RNF Layer Inflow to Node	Outflow from Node	Evaporation from Node	Inflow from 2D Layer
D-21	0.0000	12195.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
D-35	0.0000	25578.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
D-7	0.0000	18036.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
D-34	0.0000	69894.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
D-8	0.0000	45891.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
D-32	0.0000	31842.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
D-9	0.0000	26397.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	

D-31	0.0000	38277.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
D-10	0.0000	47790.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
D-30	0.0000	44496.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
D-11	0.0000	24264.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
D-29	0.0000	31113.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
D-6	0.0000	13779.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
D-20	0.0000	21546.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
D-5	0.0000	8622.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
D-14	0.0000	58941.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
D-4	0.0000	37053.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
D-15	0.0000	16371.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
D-2	0.0000	25920.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
D-16	0.0000	21024.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
D-1	0.0000	292779.0100	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
D-17	0.0000	20187.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
D-3	0.0000	25938.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
D-18	0.0000	47898.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
D-19	0.0000	40788.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
SYS-D-OUT	0.0000	0.0000	0.0000	0.0000	45229.8032	0.0000	15.4970E+06	0.0000
MH-D2	0.0000	14.2770E+06	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Table E20 - Junction Flooding and Volume Listing. The maximum volume is the total volume in the node including the volume in the flooded storage area. This is the max volume at any time. The volume in the flooded storage area is the total volume above the ground elevation, where the flooded pond storage area starts. The fourth column is instantaneous, the fifth is the sum of the flooded volume over the entire simulation. Units are either ft^3 or m^3 depending on the units.

Junction Name	Surcharged Time (min)	Flooded Time(min)	Out of 1D-System (Flooded Volume)	Maximum Volume	Passed to 2D cell OR Volume Stored in allowed Flood Pond of 1D-System
D-OUT1	1093.8833	923.3750	0.0000	10762.3880	13664.0750
D-21	1239.3167	940.9833	0.0000	15922.5362	18173.6041
D-35	1130.8833	911.9583	0.0000	7197.7174	17275.2230
D-7	1225.7500	945.7667	0.0000	15486.4913	17787.2071
D-34	1115.7000	918.6417	0.0000	8791.2530	18787.9619
D-8	1185.8000	967.0167	0.0000	25056.2772	28322.3779
D-32	1077.2500	902.0167	0.0000	6468.3912	53006.4246
D-9	1133.4333	977.2667	0.0000	25185.7176	28297.9853
D-31	1069.6333	869.1083	0.0000	2145.5527	53272.4557
D-10	1112.8833	983.9917	0.0000	24173.5873	26770.6174
D-30	1061.7000	864.1000	0.0000	3114.0388	76535.9632
D-11	1091.4167	1002.3917	0.0000	39705.9158	48056.0246
D-29	1044.4167	731.6417	0.0000	1508.9028	20492.2219
D-OUT2	1078.3000	944.7500	0.0000	20674.7509	24534.1708
D-6	1191.6000	928.6333	0.0000	13439.7231	15678.8634
D-20	1289.8167	949.3500	0.0000	19077.5948	20967.5138
D-5	1174.3833	924.8083	0.0000	13623.7410	15902.8285
D-14	1259.0500	955.2667	0.0000	24573.8672	27182.1689
D-4	1149.0167	925.0250	0.0000	13868.9492	16797.8669
D-15	1219.4000	966.3500	0.0000	27729.1920	31067.3816
D-2	1107.8500	934.6417	0.0000	16926.7583	22813.2018
D-16	1168.5833	986.7750	0.0000	37796.2642	42028.8174
D-1	1087.7000	942.0250	0.0000	18640.7625	24484.3016
D-17	1146.7000	996.7583	0.0000	49469.9267	56013.5445
D-3	1071.1000	931.6667	0.0000	15823.6865	19432.3261
D-18	1123.1167	1005.2167	0.0000	34294.1458	38204.7152
D-19	1100.8833	1014.1333	0.0000	61243.6414	73149.0712
SYS-D-OUT	1136.2000	0.0000	0.0000	34825.6742	29.6218
MH-D1	1099.1500	922.9083	0.0000	10067.2981	13446.5960
MH-D2	1074.0333	927.7917	0.0000	15172.5732	18610.7534

Simulation Specific Information			
Number of Input Conduits.....	29	Number of Simulated Conduits.....	30
Number of Natural Channels.....	0	Number of Junctions.....	30
Number of Storage Junctions.....	8	Number of Weirs.....	0
Number of Orifices.....	0	Number of Pumps.....	0

Number of Free Outfalls..... 1 Number of Tide Gate Outfalls..... 0

```
*=========================================================*
| Average % Change in Junction or Conduit is defined as:  |
| Conduit  % Change ==> 100.0 ( Q(n+1) - Q(n) ) / Qfull   |
| Junction % Change ==> 100.0 ( Y(n+1) - Y(n) ) / Yfull   |
*=========================================================*

The Conduit with the largest average change was..L_L-D-OUT1 with     3.628 percent
The Junction with the largest average change was.D-29       with     0.347 percent
The Conduit with the largest sinuosity was.......L_L-D-29   with   540.405


*==================================================================*
| Table E21. Continuity balance at the end of the simulation       |
|            Junction Inflow, Outflow or Street Flooding           |
| Error = Inflow  + Initial Volume - Outflow - Final   Volume      |
*==================================================================*
```

Inflow Junction	Inflow Volume,ft^3	Average Inflow, cfs
D-21	12195.0054	0.0706
D-35	25578.0122	0.1480
D-7	18036.0078	0.1044
D-34	69894.0357	0.4045
D-8	45891.0197	0.2656
D-32	31842.0140	0.1843
D-9	26397.0109	0.1528
D-31	38277.0167	0.2215
D-10	47790.0200	0.2766
D-30	44496.0235	0.2575
D-11	24264.0102	0.1404
D-29	31113.0143	0.1801
D-6	13779.0060	0.0797
D-20	21546.0092	0.1247
D-5	8622.0039	0.0499
D-14	58941.0285	0.3411
D-4	37053.0151	0.2144
D-15	16371.0068	0.0947
D-2	25920.0105	0.1500
D-16	21024.0087	0.1217
D-1	292779.1775	1.6943
D-17	20187.0085	0.1168
D-3	25938.0108	0.1501
D-18	47898.0200	0.2772
D-19	40788.0196	0.2360
SYS-D-OUT	45229.8032	0.2617
MH-D2	14.27703E+06	82.6217
SYS-D-OUT	-15.497E+06	-89.6817

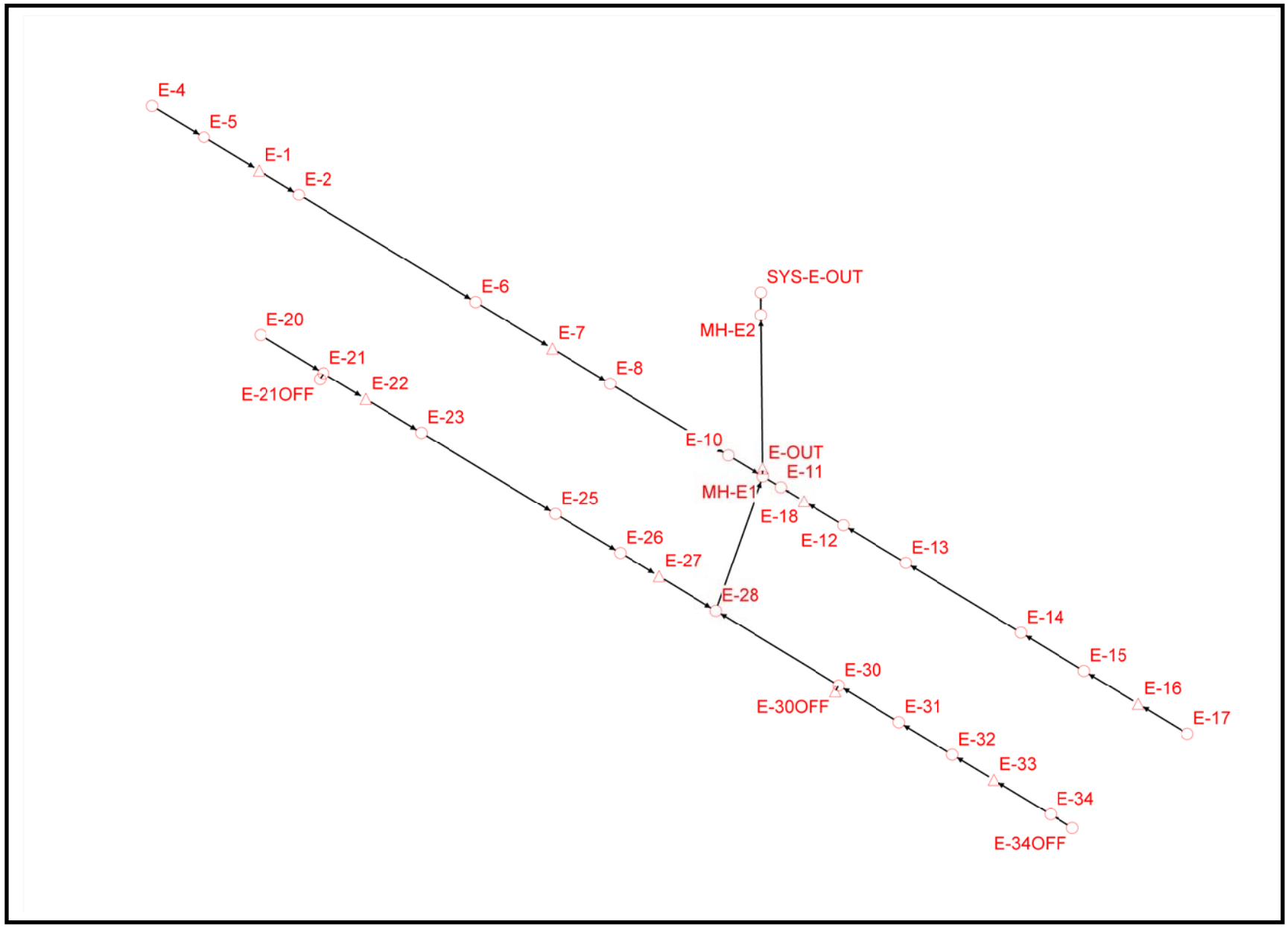
Outflow Junction	Outflow Volume,ft^3	Average Outflow, cfs
SYS-D-OUT	15.49699E+06	89.6817

```
*=====================================================*
| Initial system volume        =     20927.5876 Cu Ft |
| Total system inflow volume   =  15.368867E+06 Cu Ft |
| Inflow + Initial volume      =  15.389795E+06 Cu Ft |
*=====================================================*
| Total system outflow         =  15.496993E+06 Cu Ft |
| Volume left in system        =     24772.8055 Cu Ft |
| Evaporation                  =         0.0000 Cu Ft |
| Outflow + Final Volume       =  15.521766E+06 Cu Ft |
*=====================================================*


*=================================================*
| Total Model Continuity Error                    |
| Error in Continuity, Percent =        -0.8513 |
| Error in Continuity, ft^3    =    -131020.953 |
| + Error means a continuity loss, - a gain       |
*=================================================*

#####################################################
# Table E22. Numerical Model judgement section      #
#####################################################

Your overall error was                                  -0.8513 percent


Worst nodal error was in node D-29             with       -64.9867 percent


Of the total inflow this loss was                        0.7533 percent
```

```
Your overall continuity error was                 Excellent


                                                 Excellent Efficiency


Efficiency of the simulation                      1.93


Most Number of Non Convergences at one Node       0.


Total Number Non Convergences at all Nodes        0.


Total Number of Nodes with Non Convergences       0.



===> Hydraulic model simulation ended normally.
===> XP-SWMM Simulation ended normally.


===> Your input file was named  : P:\PROJECTS\290PMC\PHASEII\DRA\Models\SWMM\Outfalls 9-16\SWMM\Report 6-2011\Mitigated\US290_Mit_SegB_SysD.DAT
===> Your output file was named : P:\PROJECTS\290PMC\PHASEII\DRA\Models\SWMM\Outfalls 9-16\SWMM\Report 6-2011\Mitigated\US290_Mit_SegB_SysD.out

*============================================================*
|             SWMM Simulation Date and Time Summary          |
*============================================================*
| Starting Date... June       24, 2011  Time...   14:13:26:14  |
|   Ending Date... June       24, 2011  Time...   14:24: 4:77  |
|  Elapsed Time...   10.64383 minutes or     638.63000 seconds  |
*============================================================*
```

OUTFALL 14
SWMM OUTPUT
100 YR- MITIGATED CONDITIONS

OUTFALL 14
MITIGATED CONDITIONS SWMM LAYOUT



Current Directory: C:\XPS\xpstorm
Engine Name: C:\XPS\xpstorm\SWMMEN~1.EXE

Input File : Outfalls 9-16\SWMM\Report 6-2011\Mitigated\US290_Mit_SegB_SysE.XP

```
          *================================================*
          |                     xpswmm                     |
          |     Storm and Wastewater Management Model      |
          |           Interface Version: 10.52             |
          |              Engine Version: 10.54             |
          |================================================|
          |                                                |
          |                 Developed by                   |
          |                                                |
          |                 XP Software                    |
          |                                                |
          |================================================|
          |      XP Software       November, 2006          |
          |       Data File Version --->    11.9           |
          |       Serial Number: 66-1052-0602              |
          |                H & H Resources                 |
          *================================================*
```

Engine Name: C:\XPS\xpstorm\SWMMEN~1.EXE

==
| Input and Output file names by Layer |
==

Input File to Layer #   1 JOT.US
Output File to Layer #   1 JOT.US

==
| Special command line arguments in XP-SWMM2000. This |
| now includes program defaults. $Keywords are the program|
| defaults. Other Keywords are from the SWMMCOM.CFG file.|
| or the command line or any cfg file on the command line.|
| Examples include these in the file xpswm.bat under the |
| section :solve or in the windows version XPSWMM32 in the|
| file solve.bat |
| |
| Note: the cfg file should be in the subdirectory swmxp |
| or defined by the set variable in the xpswm.bat |
| file. Some examples of the command lines possible|
| are shown below: |
| |
| swmmd swmmcom.cfg |
| swmmd my.cfg |
| swmmd nokeys nconv5 perv extranwq |
==

$powerstation	0.0000	1	2
$perv	0.0000	0	4
$oldegg	0.0000	0	7
$as	0.0000	0	11
$noflat	0.0000	0	21
$oldomega	0.0000	0	24
$oldvol	0.0000	1	28
$implicit	0.0000	1	29
$oldhot	0.0000	1	31
$oldscs	0.0000	0	33
$flood	0.0000	1	40
$nokeys	0.0000	0	42
$pzero	0.0000	0	55
$oldvol2	0.0000	2	59
$storage2	0.0000	3	62
$oldhot1	0.0000	1	63
$pumpwt	0.0000	1	70
$ecloss	0.0000	1	77
$exout	0.0000	0	97
SPATIAL=0.55	0.5500	5	124
$djref = -1.0	-0.1000	3	143
$weirlen = 50	50.0000	1	153
$oldbnd	0.0000	1	154
$nogrelev	0.0000	1	161
$ncmid	0.0000	0	164
$new_nl_97	0.0000	2	290
$best97	0.0000	1	294
$newbound	0.0000	1	295
$q_tol = 0.01	0.0001	1	316
$new_storage	0.0000	1	322
$old_iteration	0.0000	1	333
MINLEN=10	10.0000	1	346
$review_elevation	0.0000	1	383
$use_half_volume	0.0000	1	385
$min_ts = 0.5	0.5000	1	407
$design_restart = on	0.0000	1	412
$zero_value=1.e-05	0.0000	1	415
$relax_depth = on	0.0000	1	427
$saveallpts = on	0.0000	1	434

==
| Parameter Values on the Tapes Common Block.These are the |
| values read from the data file and dynamically allocated |
| by the model for this simulation. |
==

Number of Subcatchments in the Runoff Block (NW)....	0
Number of Channel/Pipes in the Runoff Block (NG)....	0
Runoff Water quality constituents (NRQ).....	0
Runoff Land Uses per Subcatchment (NLU).....	0
Number of Elements in the Transport Block (NET).....	0
Number of Storage Junctions in Transport (NTSE).....	0
Number of Input Hydrographs in Transport (NTH).....	0
Number of Elements in the Extran Block (NEE).....	36
Number of Groundwater Subcatchments in Runoff (NGW).	0
Number of Interface locations for all Blocks (NIE)..	36
Number of Pumps in Extran (NEP).....	0
Number of Orifices in Extran (NEO).....	0
Number of Tide Gates/Free Outfalls in Extran (NTG)..	1
Number of Extran Weirs (NEW).....	0
Number of scs hydrograph points.....	1
Number of Extran printout locations (NPO).....	0
Number of Tide elements in Extran (NTE).....	1
Number of Natural channels (NNC).....	0
Number of Storage junctions in Extran (NVSE).....	9
Number of Time history data points in Extran(NTVAL).	300
Number of Variable storage elements in Extran (NVST)	7
Number of Input Hydrographs in Extran (NEH).....	32
Number of Particle sizes in Transport Block (NPS)...	0
Number of User defined conduits (NHW).....	36
Number of Connecting conduits in Extran (NECC).....	20
Number of Upstream elements in Transport (NTCC).....	10
Number of Storage/treatment plants (NSTU).....	1

```
 Number of Values for R1 lines in Transport (NR1)....     0
 Number of Nodes to be allowed for (NNOD)............    36
 Number of Plugs in a Storage Treatment Unit.........     1


#####################################################
#    Entry made to the HYDRAULIC Layer(Block) of SWMM #
#    Last Updated June,2005 by XP Software          #

    US 290/ Hempstead Highway Corridor - From W.Little York to Hollister
    Drainage Impact & Mitigation Study - Existing Conditions - SegB_SysA -1


*============================================================*
|        HYDRAULICS TABLES IN THE OUTPUT FILE                |
|  These are the more important tables in the output file.   |
|  You can use your editor to find the table numbers,        |
|  for example: search for Table E20 to check continuity.    |
|  This output file can be imported into a Word Processor    |
|  and printed on US letter or A4 paper using portrait       |
|  mode, courier font, a size of 8 pt. and margins of 0.75   |
|                                                            |
| Table E1   - Basic Conduit Data                            |
| Table E2   - Conduit Factor Data                           |
| Table E3a  - Junction Data                                 |
| Table E3b  - Junction Data                                 |
| Table E4   - Conduit Connectivity Data                     |
| Table E4a  - Dry Weather Flow Data                         |
| Table E4b  - Real Time Control Data                        |
| Table E5   - Junction Time Step Limitation Summary         |
| Table E5a  - Conduit Explicit Condition Summary            |
| Table E6   - Final Model Condition                         |
| Table E7   - Iteration Summary                             |
| Table E8   - Junction Time Step Limitation Summary         |
| Table E9   - Junction  Summary  Statistics                 |
| Table E10  - Conduit   Summary  Statistics                 |
| Table E11  - Area assumptions used in the analysis         |
| Table E12  - Mean conduit information                      |
| Table E13  - Channel losses(H) and culvert info            |
| Table E13a - Culvert Analysis Classification               |
| Table E14  - Natural Channel Overbank Flow Information     |
| Table E14a - Natural Channel Encroachment Information      |
| Table E14b - Floodplain Mapping                            |
| Table E15  - Spreadsheet Info List                         |
| Table E15a - Spreadsheet Reach List                        |
| Table E16  - New Conduit Output Section                    |
| Table E17  - Pump Operation                                |
| Table E18  - Junction Continuity Error                     |
| Table E19  - Junction Inflow & Outflow Listing             |
| Table E20  - Junction Flooding and Volume List             |
| Table E21  - Continuity balance at simulation end          |
| Table E22  - Model Judgement Section                       |
*============================================================*

Time Control from Hydraulics Job Control
Year.........    1995 Month.......       1
Day..........       1 Hour........       0
Minute.......       0 Second......       0


Control information for simulation
----------------------------------

Integration cycles..................    172800
Length of integration step is......      1.00 seconds
Simulation length...................     48.00 hours
Do not create equiv. pipes(NEQUAL).         0
Use U.S. customary units for I/O...         0
Printing starts in cycle...........         1
Intermediate printout intervals of.       500 cycles
Intermediate printout intervals of.      8.33 minutes
Summary printout intervals of......       500 cycles
Summary printout time interval of..      8.33 minutes
Hot start file parameter (REDO)....         0
Initial time.......................      0.00 hours

Iteration variables: Flow Tolerance.   0.00010
                     Head Tolerance.   0.00010
    Minimum depth (m or ft).........   0.00001
    Underrelaxation parameter.......   0.85000
    Time weighting parameter........   0.85000
    Conduit roughness factor........   1.00000
    Flow adjustment factor..........   1.00000
    Initial Condition Smoothing.....         0
    Courant Time Step Factor........   1.00000
    Default Expansion/Contraction K.   0.00000
    Default Entrance/Exit K.........   0.00000
    Routing Method..................   Dynamic Wave
Default surface area of junctions...     12.57 square feet.
Minimum Junction/Conduit Depth......   0.00001 feet.
Ponding Area Coefficient............   5000.00
Ponding Area Exponent...............    1.0000
Minimum Orifice Length..............    500.00 feet.
NJSW input hydrograph junctions.....    32
     or user defined hydrographs....

*================================================*
|          Table E1 - Conduit Data               |
*================================================*
```

Inp Num	Conduit Name	Length (ft)	Conduit Class	Area (ft^2)	Manning Coef.	Max Width (ft)	Depth (ft)	Trapezoid Side Slopes
1	L_L-MH-E1	16.5970	Rectangle	18.0000	0.0130	6.0000	3.0000	
2	L_L-E-10	82.6840	Rectangle	15.0000	0.0130	5.0000	3.0000	
3	L_L-E-11	42.7120	Rectangle	12.0000	0.0130	4.0000	3.0000	
4	L_L-E-28	291.3540	Rectangle	18.0000	0.0130	6.0000	3.0000	
5	L_L-E-8	282.1410	Rectangle	15.0000	0.0130	5.0000	3.0000	
6	L_L-E-18	54.6010	Rectangle	12.0000	0.0130	4.0000	3.0000	
7	L_L-E-27	135.4070	Rectangle	15.0000	0.0130	5.0000	3.0000	
8	L_L-E-30	293.8410	Rectangle	15.0000	0.0130	5.0000	3.0000	
9	L_L-E-7	137.8620	Rectangle	12.0000	0.0130	4.0000	3.0000	
10	L_L-E-12	95.4350	Rectangle	12.0000	0.0130	4.0000	3.0000	
11	L_L-E-26	92.6540	Rectangle	15.0000	0.0130	5.0000	3.0000	
12	L_L-E-31	144.7360	Rectangle	15.0000	0.0130	5.0000	3.0000	
13	Link820	14.0060	Rectangle	15.0000	0.0130	5.0000	3.0000	
14	L_L-E-6	183.1870	Rectangle	12.0000	0.0130	4.0000	3.0000	
15	L_L-E-13	149.8800	Rectangle	12.0000	0.0130	4.0000	3.0000	
16	L_L-E-25	155.0710	Rectangle	12.0000	0.0130	4.0000	3.0000	
17	L_L-E-32	127.5120	Rectangle	12.0000	0.0130	4.0000	3.0000	
18	L_L-E-2	421.7130	Rectangle	9.0000	0.0130	3.0000	3.0000	
19	L_L-E-14	275.0000	Rectangle	9.0000	0.0130	3.0000	3.0000	
20	L_L-E-23	319.4830	Rectangle	12.0000	0.0130	4.0000	3.0000	
21	L_L-E-33	98.5040	Rectangle	12.0000	0.0130	4.0000	3.0000	
22	L_L-E-1	95.1010	Circular	7.0686	0.0130	3.0000	3.0000	
23	L_L-E-15	150.0000	Circular	7.0686	0.0130	3.0000	3.0000	
24	L_L-E-22	132.7930	Rectangle	12.0000	0.0130	4.0000	3.0000	

25	L_L-E-34	135.6840	Rectangle	12.0000	0.0130	4.0000	3.0000		
26	L_L-E-5	131.4050	Circular	4.9087	0.0130	2.5000	2.5000		
27	L_L-E-16	129.6860	Circular	7.0686	0.0130	3.0000	3.0000		
28	L_L-E-21	101.0160	Rectangle	9.0000	0.0130	3.0000	3.0000		
29	Link836	52.6920	Rectangle	12.0000	0.0130	4.0000	3.0000		
30	L_L-E-4	123.2850	Circular	3.1416	0.0130	2.0000	2.0000		
31	L_L-E-17	117.0160	Circular	3.1416	0.0130	2.0000	2.0000		
32	L_L-E-20	150.0000	Circular	3.1416	0.0130	2.0000	2.0000		
33	Link840	14.0000	Circular	4.9087	0.0130	2.5000	2.5000		
34	L_L-E-OUT	310.0000	Trapezoid	256.0000	0.0350	8.0000	8.0000	3.0000	3.0000
35	L_L-MH-E2	50.0000	Trapezoid	256.0000	0.0350	8.0000	8.0000	3.0000	3.0000

Total length of all conduits .... 5107.0580 feet

Table E2 - Conduit Factor Data

Conduit Name	Number of Barrels	Entrance Loss Coef	Exit Loss Coef	Exp/Contc Coefficnt	Time Weighting Parameter	Low Flow Roughness Factor	Depth at Which n Changes	Flow Routing
L_L-MH-E1	2.0000	0.0000	0.0000	0.0000	0.8500	1.0000	0.0000	Standard - Dynamic Wave
L_L-E-28	2.0000	0.0000	0.0000	0.0000	0.8500	1.0000	0.0000	Standard - Dynamic Wave

If there are messages about (sqrt(g*d)*dt/dx), or the sqrt(wave celerity)*time step/conduit length in the output file all it means is that the program will lower the internal time step to satisfy this condition (explicit condition). You control the actual internal time step by using the minimum courant time step factor in the HYDRAULICS job control. The message put in words states that the smallest conduit with the fastest velocity will control the time step selection. You have further control by using the modify conduit option in the HYDRAULICS Job Control.

Conduit Name	Courant Ratio
L_L-MH-E1	0.59
L_L-E-10	0.12
L_L-E-11	0.23
L_L-E-28	0.03
L_L-E-8	0.03
L_L-E-18	0.18
L_L-E-27	0.07
L_L-E-30	0.03
L_L-E-7	0.07
L_L-E-12	0.10
L_L-E-26	0.11
L_L-E-31	0.07
Link820	0.70
L_L-E-6	0.05
L_L-E-13	0.07
L_L-E-25	0.06
L_L-E-32	0.08
L_L-E-2	0.02
L_L-E-14	0.04
L_L-E-23	0.03
L_L-E-33	0.10
L_L-E-1	0.10
L_L-E-15	0.07
L_L-E-22	0.07
L_L-E-34	0.07
L_L-E-5	0.07
L_L-E-16	0.08
L_L-E-21	0.10
Link836	0.19
L_L-E-4	0.07
L_L-E-17	0.07
L_L-E-20	0.05
Link840	0.64
L_L-E-OUT	0.04
L_L-MH-E2	0.24

Conduit Volume

Full pipe or full open conduit volume
Input full depth volume..... 1.4538E+05 cubic feet

Table E3a - Junction Data

Inp Num	Junction Name	Ground Elevation	Crown Elevation	Invert Elevation	Qinst cfs	Initial Depth-ft	Interface Flow (%)
1	E-OUT	86.1400	86.1400	78.0850	0.0000	0.0000	100.0000
2	MH-E1	86.1100	86.1100	78.1020	0.0000	0.0000	100.0000
3	E-10	86.4000	86.4000	78.9800	0.0000	0.0000	100.0000
4	E-11	85.9600	85.9600	78.8950	0.0000	0.0000	100.0000
5	E-28	86.3600	86.3600	78.3930	0.0000	0.0000	100.0000
6	E-8	86.2500	86.2500	79.2620	0.0000	0.0000	100.0000
7	E-18	85.7700	85.7700	78.9500	0.0000	0.0000	100.0000
8	E-27	85.8800	85.8800	79.5300	0.0000	0.0000	100.0000
9	E-30	86.4800	86.4800	78.6870	0.0000	0.0000	100.0000
10	E-7	85.7700	85.7700	79.4000	0.0000	0.0000	100.0000
11	E-12	86.1000	86.1000	79.0450	0.0000	0.0000	100.0000
12	E-26	86.2100	86.2100	79.6230	0.0000	0.0000	100.0000
13	E-31	85.9700	85.9700	78.8320	0.0000	0.0000	100.0000
14	E-30OFF	86.4000	86.4000	80.5520	0.0000	0.0000	100.0000
15	E-6	86.4100	86.4100	79.5830	0.0000	0.0000	100.0000
16	E-13	86.6300	86.6300	79.1950	0.0000	0.0000	100.0000
17	E-25	86.7500	86.7500	79.7780	0.0000	0.0000	100.0000
18	E-32	85.5300	85.5300	78.9620	0.0000	0.0000	100.0000
19	E-2	86.4500	86.4500	80.0050	0.0000	0.0000	100.0000
20	E-14	86.7500	86.7500	79.4700	0.0000	0.0000	100.0000
21	E-23	86.7000	86.7000	80.0970	0.0000	0.0000	100.0000
22	E-33	85.1800	85.1800	79.0610	0.0000	0.0000	100.0000
23	E-1	86.1200	86.1200	80.1000	0.0000	0.0000	100.0000
24	E-15	86.2200	86.2200	79.6200	0.0000	0.0000	100.0000
25	E-22	86.2300	86.2300	80.2300	0.0000	0.0000	100.0000
26	E-34	85.6600	85.6600	79.1970	0.0000	0.0000	100.0000
27	E-5	86.5800	86.5800	80.7310	0.0000	0.0000	100.0000
28	E-16	85.7700	85.7700	79.7500	0.0000	0.0000	100.0000
29	E-21	86.5800	86.5800	80.3310	0.0000	0.0000	100.0000
30	E-34OFF	85.2500	85.2500	79.2500	0.0000	0.0000	100.0000
31	E-4	87.0100	87.0100	81.3540	0.0000	0.0000	100.0000
32	E-17	86.1800	86.1800	80.8670	0.0000	0.0000	100.0000
33	E-20	87.1100	87.1100	81.4810	0.0000	0.0000	100.0000
34	E-21OFF	86.9300	86.9300	80.8450	0.0000	0.0000	100.0000

35	SYS-E-OUT	86.0000	86.0000	77.7250	0.0000	0.0000	100.0000
36	MH-E2	86.0000	86.0000	77.7750	0.0000	0.0000	100.0000

Table E3b - Junction Data

Inp Num	Junction Name	X Coord.	Y Coord.	Type of Manhole	Type of Inlet	Maximum Capacity	Pavement Shape	Pavement Slope
1	E-OUT	3.072659E+06	13.87707E+06	F	Normal		0	0.0000
2	MH-E1	3.072659E+06	13.87706E+06	F	Normal		0	0.0000
3	E-10	3.072588E+06	13.87710E+06	F	Normal		0	0.0000
4	E-11	3.072696E+06	13.87704E+06	F	Normal		0	0.0000
5	E-28	3.072563E+06	13.87678E+06	F	Normal		0	0.0000
6	E-8	3.072347E+06	13.87725E+06	F	Normal		0	0.0000
7	E-18	3.072742E+06	13.87701E+06	F	Normal		0	0.0000
8	E-27	3.072447E+06	13.87685E+06	F	Normal		0	0.0000
9	E-30	3.072814E+06	13.87663E+06	F	Normal		0	0.0000
10	E-7	3.072229E+06	13.87732E+06	F	Normal		0	0.0000
11	E-12	3.072824E+06	13.87696E+06	F	Normal		0	0.0000
12	E-26	3.072368E+06	13.87690E+06	F	Normal		0	0.0000
13	E-31	3.072938E+06	13.87656E+06	F	Normal		0	0.0000
14	E-30OFF	3.072807E+06	13.87662E+06	F	Normal		0	0.0000
15	E-6	3.072072E+06	13.87741E+06	F	Normal		0	0.0000
16	E-13	3.072952E+06	13.87688E+06	F	Normal		0	0.0000
17	E-25	3.072235E+06	13.87698E+06	F	Normal		0	0.0000
18	E-32	3.073047E+06	13.87649E+06	F	Normal		0	0.0000
19	E-2	3.071712E+06	13.87763E+06	F	Normal		0	0.0000
20	E-14	3.073187E+06	13.87674E+06	F	Normal		0	0.0000
21	E-23	3.071962E+06	13.87715E+06	F	Normal		0	0.0000
22	E-33	3.073131E+06	13.87644E+06	F	Normal		0	0.0000
23	E-1	3.071630E+06	13.87768E+06	F	Normal		0	0.0000
24	E-15	3.073316E+06	13.87666E+06	F	Normal		0	0.0000
25	E-22	3.071848E+06	13.87722E+06	F	Normal		0	0.0000
26	E-34	3.073247E+06	13.87637E+06	F	Normal		0	0.0000
27	E-5	3.071518E+06	13.87775E+06	F	Normal		0	0.0000
28	E-16	3.073427E+06	13.87659E+06	F	Normal		0	0.0000
29	E-21	3.071762E+06	13.87727E+06	F	Normal		0	0.0000
30	E-34OFF	3.073292E+06	13.87634E+06	F	Normal		0	0.0000
31	E-4	3.071412E+06	13.87781E+06	F	Normal		0	0.0000
32	E-17	3.073527E+06	13.87653E+06	F	Normal		0	0.0000
33	E-20	3.071633E+06	13.87735E+06	F	Normal		0	0.0000
34	E-21OFF	3.071754E+06	13.87726E+06	F	Normal		0	0.0000
35	SYS-E-OUT	3.072655E+06	13.87743E+06	F	Normal		0	0.0000
36	MH-E2	3.072655E+06	13.87739E+06	F	Normal		0	0.0000

Table E4 - Conduit Connectivity

Input Number	Conduit Name	Upstream Node	Downstream Node	Upstream Elevation	Downstream Elevation	
1	L_L-MH-E1	MH-E1	E-OUT	78.1020	78.0850	No Design
2	L_L-E-10	E-10	MH-E1	78.9800	78.8970	No Design
3	L_L-E-11	E-11	MH-E1	78.8950	78.8520	No Design
4	L_L-E-28	E-28	MH-E1	78.3930	78.1020	No Design
5	L_L-E-8	E-8	E-10	79.2620	78.9800	No Design
6	L_L-E-18	E-18	E-11	78.9500	78.8950	No Design
7	L_L-E-27	E-27	E-28	79.5300	79.3950	No Design
8	L_L-E-30	E-30	E-28	78.6870	78.3930	No Design
9	L_L-E-7	E-7	E-8	79.4000	79.2620	No Design
10	L_L-E-12	E-12	E-18	79.0450	78.9500	No Design
11	L_L-E-26	E-26	E-27	79.6230	79.5300	No Design
12	L_L-E-31	E-31	E-30	78.8320	78.6870	No Design
13	Link820	E-30OFF	E-30	80.5520	80.5240	No Design
14	L_L-E-6	E-6	E-7	79.5830	79.4000	No Design
15	L_L-E-13	E-13	E-12	79.1950	79.0450	No Design
16	L_L-E-25	E-25	E-26	79.7780	79.6230	No Design
17	L_L-E-32	E-32	E-31	78.9620	78.8340	No Design
18	L_L-E-2	E-2	E-6	80.0050	79.5830	No Design
19	L_L-E-14	E-14	E-13	79.4700	79.1950	No Design
20	L_L-E-23	E-23	E-25	80.0970	79.7780	No Design
21	L_L-E-33	E-33	E-32	79.0610	78.9620	No Design
22	L_L-E-1	E-1	E-2	80.1000	80.0050	No Design
23	L_L-E-15	E-15	E-14	79.6200	79.4700	No Design
24	L_L-E-22	E-22	E-23	80.2300	80.0970	No Design
25	L_L-E-34	E-34	E-33	79.1970	79.0610	No Design
26	L_L-E-5	E-5	E-1	80.7310	80.6000	No Design
27	L_L-E-16	E-16	E-15	79.7500	79.6200	No Design
28	L_L-E-21	E-21	E-22	80.3310	80.2300	No Design
29	Link836	E-34OFF	E-34	79.2500	79.1970	No Design
30	L_L-E-4	E-4	E-5	81.3540	81.2310	No Design
31	L_L-E-17	E-17	E-16	80.8670	80.7500	No Design
32	L_L-E-20	E-20	E-21	81.4810	81.3310	No Design
33	Link840	E-21OFF	E-21	80.8450	80.8310	No Design
34	L_L-E-OUT	E-OUT	MH-E2	78.0850	77.7750	No Design
35	L_L-MH-E2	MH-E2	SYS-E-OUT	77.7750	77.7250	No Design

====> Warning !!! Node: E-30OFF Area = 0.0 at stage 4.448 Area reset to 0.000

Storage Junction Data

STORAGE JUNCTION NUMBER OR NAME	JUNCTION TYPE	MAXIMUM OR CONSTANT SURFACE AREA (FT2)	PEAK OR CONSTANT VOLUME (CUBIC FEET)	CROWN ELEVATION (FT)	DEPTH STARTS FROM
E-OUT	Stage/Area	450410.4000	3.401071E+06	86.1400	Spill Crest
E-18	Stage/Area	17119.0800	106666.7433	85.7700	Spill Crest
E-27	Stage/Area	17119.0800	98620.7757	85.8800	Spill Crest
E-7	Stage/Area	17119.0800	98963.1573	85.7700	Spill Crest
E-30OFF	Stage/Area	12457.9509	10470.9366	86.4000	Node Invert
E-33	Stage/Area	17119.0800	94666.2682	85.1800	Spill Crest
E-1	Stage/Area	17119.0800	92971.4793	86.1200	Spill Crest
E-22	Stage/Area	17119.0800	92629.0977	86.2300	Spill Crest
E-16	Stage/Area	17119.0800	92971.4793	85.7700	Spill Crest

Variable storage data for node | E-OUT

Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	78.0850	0.0000	0.0000	0.0000	0.0000	0.0000
2	78.2100	0.1250	56301.3000	2345.8875	1.2925	0.0539
3	78.3350	0.2500	112602.6000	12701.1359	2.5850	0.2916
4	78.4600	0.3750	168903.9000	30176.8008	3.8775	0.6928
5	78.5850	0.5000	225205.2000	54724.4060	5.1700	1.2563
6	78.7100	0.6250	281506.5000	86328.5213	6.4625	1.9818
7	78.8350	0.7500	337807.8000	124982.2388	7.7550	2.8692
8	78.9600	0.8750	394109.1000	170681.8649	9.0475	3.9183
9	79.0850	1.0000	450410.4000	223425.1920	10.3400	5.1291
10	79.5850	1.5000	450410.4000	448630.3920	10.3400	10.2991

11	80.0850	2.0000	450410.4000	673835.5920	10.3400	15.4691
12	80.5850	2.5000	450410.4000	899040.7920	10.3400	20.6391
13	81.0850	3.0000	450410.4000	1.124246E+06	10.3400	25.8091
14	81.5850	3.5000	450410.4000	1.349451E+06	10.3400	30.9791
15	82.0850	4.0000	450410.4000	1.574656E+06	10.3400	36.1491
16	82.5850	4.5000	450410.4000	1.799862E+06	10.3400	41.3191
17	83.0850	5.0000	450410.4000	2.025067E+06	10.3400	46.4891
18	86.1400	8.0550	450410.4000	3.401071E+06	10.3400	78.0778

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| Variable storage data for node | E-18
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	78.9500	0.0000	4.3560	0.0000	0.0001	0.0000
2	78.9750	0.0250	150.8265	1.5068	0.0035	0.0000
3	79.0000	0.0500	297.2970	7.0058	0.0068	0.0002
4	79.0250	0.0750	443.7675	16.2082	0.0102	0.0004
5	79.0500	0.1000	590.2380	29.0898	0.0135	0.0007
6	79.0750	0.1250	736.7085	45.6428	0.0169	0.0010
7	79.1000	0.1500	883.1790	65.8638	0.0203	0.0015
8	79.1250	0.1750	1029.6495	89.7507	0.0236	0.0021
9	79.1500	0.2000	1176.1200	117.3026	0.0270	0.0027
10	79.1750	0.2250	1475.5950	150.3783	0.0339	0.0035
11	79.2000	0.2500	1775.0700	190.9540	0.0408	0.0044
12	79.2250	0.2750	2074.5450	239.0256	0.0476	0.0055
13	79.2500	0.3000	2374.0200	294.5906	0.0545	0.0068
14	79.2750	0.3250	2673.4950	357.6475	0.0614	0.0082
15	79.3000	0.3500	2972.9700	428.1952	0.0683	0.0098
16	79.3250	0.3750	3272.4450	506.2330	0.0751	0.0116
17	79.3500	0.4000	3571.9200	591.7602	0.0820	0.0136
18	79.3625	0.4125	3773.3850	637.6626	0.0866	0.0146
19	79.3750	0.4250	3974.8500	686.0836	0.0912	0.0158
20	79.3875	0.4375	4176.3150	737.0232	0.0959	0.0169
21	79.4000	0.4500	4377.7800	790.4814	0.1005	0.0181
22	79.4125	0.4625	4579.2450	846.4581	0.1051	0.0194
23	79.4250	0.4750	4780.7100	904.9533	0.1098	0.0208
24	79.4375	0.4875	4982.1750	965.9670	0.1144	0.0222
25	79.4500	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	79.4625	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	79.4750	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	79.4875	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	79.5000	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	79.5125	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	79.5250	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	79.5375	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	79.5500	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	79.5625	0.6125	7900.6950	1761.8875	0.1814	0.0404
35	79.5750	0.6250	8265.5100	1862.9177	0.1897	0.0428
36	79.5875	0.6375	8630.3250	1968.5084	0.1981	0.0452
37	79.6000	0.6500	8995.1400	2078.6597	0.2065	0.0477
38	79.6125	0.6625	9359.9550	2193.3715	0.2149	0.0504
39	79.6250	0.6750	9724.7700	2312.6438	0.2233	0.0531
40	79.6375	0.6875	10089.5850	2436.4765	0.2316	0.0559
41	79.6500	0.7000	10454.4000	2564.8697	0.2400	0.0589
42	79.6750	0.7250	11287.4850	2836.5767	0.2591	0.0651
43	79.7000	0.7500	12120.5700	3129.1156	0.2782	0.0718
44	79.7250	0.7750	12953.6550	3442.4857	0.2974	0.0790
45	79.7500	0.8000	13786.7400	3776.6866	0.3165	0.0867
46	79.7750	0.8250	14619.8250	4131.7177	0.3356	0.0949
47	79.8000	0.8500	15452.9100	4507.5788	0.3548	0.1035
48	79.8250	0.8750	16285.9950	4904.2696	0.3739	0.1126
49	79.8500	0.9000	17119.0800	5321.7897	0.3930	0.1222
50	85.7700	6.8200	17119.0800	106666.7433	0.3930	2.4487

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| Variable storage data for node | E-27
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	79.5300	0.0000	4.3560	0.0000	0.0001	0.0000
2	79.5550	0.0250	150.8265	1.5068	0.0035	0.0000
3	79.5800	0.0500	297.2970	7.0058	0.0068	0.0002
4	79.6050	0.0750	443.7675	16.2082	0.0102	0.0004
5	79.6300	0.1000	590.2380	29.0898	0.0135	0.0007
6	79.6550	0.1250	736.7085	45.6428	0.0169	0.0010
7	79.6800	0.1500	883.1790	65.8638	0.0203	0.0015
8	79.7050	0.1750	1029.6495	89.7507	0.0236	0.0021
9	79.7300	0.2000	1176.1200	117.3026	0.0270	0.0027
10	79.7550	0.2250	1475.5950	150.3783	0.0339	0.0035
11	79.7800	0.2500	1775.0700	190.9540	0.0408	0.0044
12	79.8050	0.2750	2074.5450	239.0256	0.0476	0.0055
13	79.8300	0.3000	2374.0200	294.5906	0.0545	0.0068
14	79.8550	0.3250	2673.4950	357.6475	0.0614	0.0082
15	79.8800	0.3500	2972.9700	428.1952	0.0683	0.0098
16	79.9050	0.3750	3272.4450	506.2330	0.0751	0.0116
17	79.9300	0.4000	3571.9200	591.7602	0.0820	0.0136
18	79.9425	0.4125	3773.3850	637.6626	0.0866	0.0146
19	79.9550	0.4250	3974.8500	686.0836	0.0912	0.0158
20	79.9675	0.4375	4176.3150	737.0232	0.0959	0.0169
21	79.9800	0.4500	4377.7800	790.4814	0.1005	0.0181
22	79.9925	0.4625	4579.2450	846.4581	0.1051	0.0194
23	80.0050	0.4750	4780.7100	904.9533	0.1098	0.0208
24	80.0175	0.4875	4982.1750	965.9670	0.1144	0.0222
25	80.0300	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	80.0425	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	80.0550	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	80.0675	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	80.0800	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	80.0925	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	80.1050	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	80.1175	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	80.1300	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	80.1425	0.6125	7900.6950	1761.8875	0.1814	0.0404
35	80.1550	0.6250	8265.5100	1862.9177	0.1897	0.0428
36	80.1675	0.6375	8630.3250	1968.5084	0.1981	0.0452
37	80.1800	0.6500	8995.1400	2078.6597	0.2065	0.0477
38	80.1925	0.6625	9359.9550	2193.3715	0.2149	0.0504
39	80.2050	0.6750	9724.7700	2312.6438	0.2233	0.0531
40	80.2175	0.6875	10089.5850	2436.4765	0.2316	0.0559
41	80.2300	0.7000	10454.4000	2564.8697	0.2400	0.0589
42	80.2550	0.7250	11287.4850	2836.5767	0.2591	0.0651
43	80.2800	0.7500	12120.5700	3129.1156	0.2782	0.0718
44	80.3050	0.7750	12953.6550	3442.4857	0.2974	0.0790
45	80.3300	0.8000	13786.7400	3776.6866	0.3165	0.0867
46	80.3550	0.8250	14619.8250	4131.7177	0.3356	0.0949
47	80.3800	0.8500	15452.9100	4507.5788	0.3548	0.1035
48	80.4050	0.8750	16285.9950	4904.2696	0.3739	0.1126
49	80.4300	0.9000	17119.0800	5321.7897	0.3930	0.1222
50	85.8800	6.3500	17119.0800	98620.7757	0.3930	2.2640

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| Variable storage data for node | E-7
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft

Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	79.4000	0.0000	4.3560	0.0000	0.0001	0.0000
2	79.4250	0.0250	150.8265	1.5068	0.0035	0.0000
3	79.4500	0.0500	297.2970	7.0058	0.0068	0.0002
4	79.4750	0.0750	443.7675	16.2082	0.0102	0.0004
5	79.5000	0.1000	590.2380	29.0898	0.0135	0.0007
6	79.5250	0.1250	736.7085	45.6428	0.0169	0.0010
7	79.5500	0.1500	883.1790	65.8638	0.0203	0.0015
8	79.5750	0.1750	1029.6495	89.7507	0.0236	0.0021
9	79.6000	0.2000	1176.1200	117.3026	0.0270	0.0027
10	79.6250	0.2250	1475.5950	150.3783	0.0339	0.0035
11	79.6500	0.2500	1775.0700	190.9540	0.0408	0.0044
12	79.6750	0.2750	2074.5450	239.0256	0.0476	0.0055
13	79.7000	0.3000	2374.0200	294.5906	0.0545	0.0068
14	79.7250	0.3250	2673.4950	357.6475	0.0614	0.0082
15	79.7500	0.3500	2972.9700	428.1952	0.0683	0.0098
16	79.7750	0.3750	3272.4450	506.2330	0.0751	0.0116
17	79.8000	0.4000	3571.9200	591.7602	0.0820	0.0136
18	79.8125	0.4125	3773.3850	637.6626	0.0866	0.0146
19	79.8250	0.4250	3974.8500	686.0836	0.0912	0.0158
20	79.8375	0.4375	4176.3150	737.0232	0.0959	0.0169
21	79.8500	0.4500	4377.7800	790.4814	0.1005	0.0181
22	79.8625	0.4625	4579.2450	846.4581	0.1051	0.0194
23	79.8750	0.4750	4780.7100	904.9533	0.1098	0.0208
24	79.8875	0.4875	4982.1750	965.9670	0.1144	0.0222
25	79.9000	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	79.9125	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	79.9250	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	79.9375	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	79.9500	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	79.9625	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	79.9750	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	79.9875	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	80.0000	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	80.0125	0.6125	7900.6950	1761.8875	0.1814	0.0404
35	80.0250	0.6250	8265.5100	1862.9177	0.1897	0.0428
36	80.0375	0.6375	8630.3250	1968.5084	0.1981	0.0452
37	80.0500	0.6500	8995.1400	2078.6597	0.2065	0.0477
38	80.0625	0.6625	9359.9550	2193.3715	0.2149	0.0504
39	80.0750	0.6750	9724.7700	2312.6438	0.2233	0.0531
40	80.0875	0.6875	10089.5850	2436.4765	0.2316	0.0559
41	80.1000	0.7000	10454.4000	2564.8697	0.2400	0.0589
42	80.1250	0.7250	11287.4850	2836.5767	0.2591	0.0651
43	80.1500	0.7500	12120.5700	3129.1156	0.2782	0.0718
44	80.1750	0.7750	12953.6550	3442.4857	0.2974	0.0790
45	80.2000	0.8000	13786.7400	3776.6866	0.3165	0.0867
46	80.2250	0.8250	14619.8250	4131.7177	0.3356	0.0949
47	80.2500	0.8500	15452.9100	4507.5788	0.3548	0.1035
48	80.2750	0.8750	16285.9950	4904.2696	0.3739	0.1126
49	80.3000	0.9000	17119.0800	5321.7897	0.3930	0.1222
50	85.7700	6.3700	17119.0800	98963.1573	0.3930	2.2719

Variable storage data for node | E-30OFF

Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	80.5520	0.0000	0.0000	0.0000	0.0000	0.0000
2	81.1080	0.5560	0.0000	0.0000	0.0000	0.0000
3	81.6640	1.1120	0.0000	0.0000	0.0000	0.0000
4	82.2200	1.6680	0.0000	0.0000	0.0000	0.0000
5	82.7760	2.2240	0.0000	0.0000	0.0000	0.0000
6	83.3320	2.7800	0.0000	0.0000	0.0000	0.0000
7	83.8880	3.3360	0.0000	0.0000	0.0000	0.0000
8	84.4440	3.8920	0.0000	0.0000	0.0000	0.0000
9	85.0000	4.4480	0.0000	0.0000	0.0000	0.0000
10	85.0625	4.5105	446.4900	9.3019	0.0103	0.0002
11	85.1250	4.5730	892.9800	50.3623	0.0205	0.0012
12	85.1875	4.6355	1339.4700	119.6566	0.0307	0.0027
13	85.2500	4.6980	1785.9600	216.9923	0.0410	0.0050
14	85.3125	4.7605	2232.4500	342.3085	0.0513	0.0079
15	85.3750	4.8230	2678.9400	495.5775	0.0615	0.0114
16	85.4375	4.8855	3125.4300	676.7850	0.0718	0.0155
17	85.5000	4.9480	3571.9200	885.9219	0.0820	0.0203
18	85.5625	5.0105	4520.5316	1138.2299	0.1038	0.0261
19	85.6250	5.0730	5469.1431	1449.9370	0.1256	0.0333
20	85.6875	5.1355	6417.7547	1821.0076	0.1473	0.0418
21	85.7500	5.1980	7366.3663	2251.4210	0.1691	0.0517
22	85.8125	5.2605	8314.9778	2741.1639	0.1909	0.0629
23	85.8750	5.3230	9263.5894	3290.2273	0.2127	0.0755
24	85.9375	5.3855	10212.2010	3898.5049	0.2344	0.0895
25	86.0000	5.4480	11160.8125	4566.2922	0.2562	0.1048
26	86.0625	5.5105	11322.9548	5268.9038	0.2599	0.1210
27	86.1250	5.5730	11485.0971	5981.6495	0.2637	0.1373
28	86.1875	5.6355	11647.2394	6704.5291	0.2674	0.1539
29	86.2500	5.6980	11809.3817	7437.5426	0.2711	0.1707
30	86.3125	5.7605	11971.5240	8180.6902	0.2748	0.1878
31	86.3750	5.8230	12133.6663	8933.9717	0.2786	0.2051
32	86.4375	5.8855	12295.8086	9697.3872	0.2823	0.2226
33	86.5000	5.9480	12457.9509	10470.9366	0.2860	0.2404

Variable storage data for node | E-33

Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	79.0610	0.0000	4.3560	0.0000	0.0001	0.0000
2	79.0860	0.0250	150.8265	1.5068	0.0035	0.0000
3	79.1110	0.0500	297.2970	7.0058	0.0068	0.0002
4	79.1360	0.0750	443.7675	16.2082	0.0102	0.0004
5	79.1610	0.1000	590.2380	29.0898	0.0135	0.0007
6	79.1860	0.1250	736.7085	45.6428	0.0169	0.0010
7	79.2110	0.1500	883.1790	65.8638	0.0203	0.0015
8	79.2360	0.1750	1029.6495	89.7507	0.0236	0.0021
9	79.2610	0.2000	1176.1200	117.3026	0.0270	0.0027
10	79.2860	0.2250	1475.5950	150.3783	0.0339	0.0035
11	79.3110	0.2500	1775.0700	190.9540	0.0408	0.0044
12	79.3360	0.2750	2074.5450	239.0256	0.0476	0.0055
13	79.3610	0.3000	2374.0200	294.5906	0.0545	0.0068
14	79.3860	0.3250	2673.4950	357.6475	0.0614	0.0082
15	79.4110	0.3500	2972.9700	428.1952	0.0683	0.0098
16	79.4360	0.3750	3272.4450	506.2330	0.0751	0.0116
17	79.4610	0.4000	3571.9200	591.7602	0.0820	0.0136
18	79.4735	0.4125	3773.3850	637.6626	0.0866	0.0146
19	79.4860	0.4250	3974.8500	686.0836	0.0912	0.0158
20	79.4985	0.4375	4176.3150	737.0232	0.0959	0.0169
21	79.5110	0.4500	4377.7800	790.4814	0.1005	0.0181
22	79.5235	0.4625	4579.2450	846.4581	0.1051	0.0194
23	79.5360	0.4750	4780.7100	904.9533	0.1098	0.0208
24	79.5485	0.4875	4982.1750	965.9670	0.1144	0.0222
25	79.5610	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	79.5735	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	79.5860	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	79.5985	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	79.6110	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	79.6235	0.5625	6653.7900	1399.3806	0.1527	0.0321

31	79.6360	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	79.6485	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	79.6610	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	79.6735	0.6125	7900.6950	1761.8875	0.1814	0.0404
35	79.6860	0.6250	8265.5100	1862.9177	0.1897	0.0428
36	79.6985	0.6375	8630.3250	1968.5084	0.1981	0.0452
37	79.7110	0.6500	8995.1400	2078.6597	0.2065	0.0477
38	79.7235	0.6625	9359.9550	2193.3715	0.2149	0.0504
39	79.7360	0.6750	9724.7700	2312.6438	0.2233	0.0531
40	79.7485	0.6875	10089.5850	2436.4765	0.2316	0.0559
41	79.7610	0.7000	10454.4000	2564.8697	0.2400	0.0589
42	79.7860	0.7250	11287.4850	2836.5767	0.2591	0.0651
43	79.8110	0.7500	12120.5700	3129.1156	0.2782	0.0718
44	79.8360	0.7750	12953.6550	3442.4857	0.2974	0.0790
45	79.8610	0.8000	13786.7400	3776.6866	0.3165	0.0867
46	79.8860	0.8250	14619.8250	4131.7177	0.3356	0.0949
47	79.9110	0.8500	15452.9100	4507.5788	0.3548	0.1035
48	79.9360	0.8750	16285.9950	4904.2696	0.3739	0.1126
49	79.9610	0.9000	17119.0800	5321.7897	0.3930	0.1222
50	85.1800	6.1190	17119.0800	94666.2682	0.3930	2.1732

==========
| Variable storage data for node | E-1
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	80.1000	0.0000	4.3560	0.0000	0.0001	0.0000
2	80.1250	0.0250	150.8265	1.5068	0.0035	0.0000
3	80.1500	0.0500	297.2970	7.0058	0.0068	0.0002
4	80.1750	0.0750	443.7675	16.2082	0.0102	0.0004
5	80.2000	0.1000	590.2380	29.0898	0.0135	0.0007
6	80.2250	0.1250	736.7085	45.6428	0.0169	0.0010
7	80.2500	0.1500	883.1790	65.8638	0.0203	0.0015
8	80.2750	0.1750	1029.6495	89.7507	0.0236	0.0021
9	80.3000	0.2000	1176.1200	117.3026	0.0270	0.0027
10	80.3250	0.2250	1475.5950	150.3783	0.0339	0.0035
11	80.3500	0.2500	1775.0700	190.9540	0.0408	0.0044
12	80.3750	0.2750	2074.5450	239.0256	0.0476	0.0055
13	80.4000	0.3000	2374.0200	294.5906	0.0545	0.0068
14	80.4250	0.3250	2673.4950	357.6475	0.0614	0.0082
15	80.4500	0.3500	2972.9700	428.1952	0.0683	0.0098
16	80.4750	0.3750	3272.4450	506.2330	0.0751	0.0116
17	80.5000	0.4000	3571.9200	591.7602	0.0820	0.0136
18	80.5125	0.4125	3773.3850	637.6626	0.0866	0.0146
19	80.5250	0.4250	3974.8500	686.0836	0.0912	0.0158
20	80.5375	0.4375	4176.3150	737.0232	0.0959	0.0169
21	80.5500	0.4500	4377.7800	790.4814	0.1005	0.0181
22	80.5625	0.4625	4579.2450	846.4581	0.1051	0.0194
23	80.5750	0.4750	4780.7100	904.9533	0.1098	0.0208
24	80.5875	0.4875	4982.1750	965.9670	0.1144	0.0222
25	80.6000	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	80.6125	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	80.6250	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	80.6375	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	80.6500	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	80.6625	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	80.6750	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	80.6875	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	80.7000	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	80.7125	0.6125	7900.6950	1761.8875	0.1814	0.0404
35	80.7250	0.6250	8265.5100	1862.9177	0.1897	0.0428
36	80.7375	0.6375	8630.3250	1968.5084	0.1981	0.0452
37	80.7500	0.6500	8995.1400	2078.6597	0.2065	0.0477
38	80.7625	0.6625	9359.9550	2193.3715	0.2149	0.0504
39	80.7750	0.6750	9724.7700	2312.6438	0.2233	0.0531
40	80.7875	0.6875	10089.5850	2436.4765	0.2316	0.0559
41	80.8000	0.7000	10454.4000	2564.8697	0.2400	0.0589
42	80.8250	0.7250	11287.4850	2836.5767	0.2591	0.0651
43	80.8500	0.7500	12120.5700	3129.1156	0.2782	0.0718
44	80.8750	0.7750	12953.6550	3442.4857	0.2974	0.0790
45	80.9000	0.8000	13786.7400	3776.6866	0.3165	0.0867
46	80.9250	0.8250	14619.8250	4131.7177	0.3356	0.0949
47	80.9500	0.8500	15452.9100	4507.5788	0.3548	0.1035
48	80.9750	0.8750	16285.9950	4904.2696	0.3739	0.1126
49	81.0000	0.9000	17119.0800	5321.7897	0.3930	0.1222
50	86.1200	6.0200	17119.0800	92971.4793	0.3930	2.1343

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| Variable storage data for node | E-22
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	80.2300	0.0000	4.3560	0.0000	0.0001	0.0000
2	80.2550	0.0250	150.8265	1.5068	0.0035	0.0000
3	80.2800	0.0500	297.2970	7.0058	0.0068	0.0002
4	80.3050	0.0750	443.7675	16.2082	0.0102	0.0004
5	80.3300	0.1000	590.2380	29.0898	0.0135	0.0007
6	80.3550	0.1250	736.7085	45.6428	0.0169	0.0010
7	80.3800	0.1500	883.1790	65.8638	0.0203	0.0015
8	80.4050	0.1750	1029.6495	89.7507	0.0236	0.0021
9	80.4300	0.2000	1176.1200	117.3026	0.0270	0.0027
10	80.4550	0.2250	1475.5950	150.3783	0.0339	0.0035
11	80.4800	0.2500	1775.0700	190.9540	0.0408	0.0044
12	80.5050	0.2750	2074.5450	239.0256	0.0476	0.0055
13	80.5300	0.3000	2374.0200	294.5906	0.0545	0.0068
14	80.5550	0.3250	2673.4950	357.6475	0.0614	0.0082
15	80.5800	0.3500	2972.9700	428.1952	0.0683	0.0098
16	80.6050	0.3750	3272.4450	506.2330	0.0751	0.0116
17	80.6300	0.4000	3571.9200	591.7602	0.0820	0.0136
18	80.6425	0.4125	3773.3850	637.6626	0.0866	0.0146
19	80.6550	0.4250	3974.8500	686.0836	0.0912	0.0158
20	80.6675	0.4375	4176.3150	737.0232	0.0959	0.0169
21	80.6800	0.4500	4377.7800	790.4814	0.1005	0.0181
22	80.6925	0.4625	4579.2450	846.4581	0.1051	0.0194
23	80.7050	0.4750	4780.7100	904.9533	0.1098	0.0208
24	80.7175	0.4875	4982.1750	965.9670	0.1144	0.0222
25	80.7300	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	80.7425	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	80.7550	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	80.7675	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	80.7800	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	80.7925	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	80.8050	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	80.8175	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	80.8300	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	80.8425	0.6125	7900.6950	1761.8875	0.1814	0.0404
35	80.8550	0.6250	8265.5100	1862.9177	0.1897	0.0428
36	80.8675	0.6375	8630.3250	1968.5084	0.1981	0.0452
37	80.8800	0.6500	8995.1400	2078.6597	0.2065	0.0477
38	80.8925	0.6625	9359.9550	2193.3715	0.2149	0.0504
39	80.9050	0.6750	9724.7700	2312.6438	0.2233	0.0531
40	80.9175	0.6875	10089.5850	2436.4765	0.2316	0.0559
41	80.9300	0.7000	10454.4000	2564.8697	0.2400	0.0589
42	80.9550	0.7250	11287.4850	2836.5767	0.2591	0.0651
43	80.9800	0.7500	12120.5700	3129.1156	0.2782	0.0718
44	81.0050	0.7750	12953.6550	3442.4857	0.2974	0.0790

45	81.0300	0.8000	13786.7400	3776.6866	0.3165	0.0867
46	81.0550	0.8250	14619.8250	4131.7177	0.3356	0.0949
47	81.0800	0.8500	15452.9100	4507.5788	0.3548	0.1035
48	81.1050	0.8750	16285.9950	4904.2696	0.3739	0.1126
49	81.1300	0.9000	17119.0800	5321.7897	0.3930	0.1222
50	86.2300	6.0000	17119.0800	92629.0977	0.3930	2.1265

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| Variable storage data for node | E-16
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	79.7500	0.0000	4.3560	0.0000	0.0001	0.0000
2	79.7750	0.0250	150.8265	1.5068	0.0035	0.0000
3	79.8000	0.0500	297.2970	7.0058	0.0068	0.0002
4	79.8250	0.0750	443.7675	16.2082	0.0102	0.0004
5	79.8500	0.1000	590.2380	29.0898	0.0135	0.0007
6	79.8750	0.1250	736.7085	45.6428	0.0169	0.0010
7	79.9000	0.1500	883.1790	65.8638	0.0203	0.0015
8	79.9250	0.1750	1029.6495	89.7507	0.0236	0.0021
9	79.9500	0.2000	1176.1200	117.3026	0.0270	0.0027
10	79.9750	0.2250	1475.5950	150.3783	0.0339	0.0035
11	80.0000	0.2500	1775.0700	190.9540	0.0408	0.0044
12	80.0250	0.2750	2074.5450	239.0256	0.0476	0.0055
13	80.0500	0.3000	2374.0200	294.5906	0.0545	0.0068
14	80.0750	0.3250	2673.4950	357.6475	0.0614	0.0082
15	80.1000	0.3500	2972.9700	428.1952	0.0683	0.0098
16	80.1250	0.3750	3272.4450	506.2330	0.0751	0.0116
17	80.1500	0.4000	3571.9200	591.7602	0.0820	0.0136
18	80.1625	0.4125	3773.3850	637.6626	0.0866	0.0146
19	80.1750	0.4250	3974.8500	686.0836	0.0912	0.0158
20	80.1875	0.4375	4176.3150	737.0232	0.0959	0.0169
21	80.2000	0.4500	4377.7800	790.4814	0.1005	0.0181
22	80.2125	0.4625	4579.2450	846.4581	0.1051	0.0194
23	80.2250	0.4750	4780.7100	904.9533	0.1098	0.0208
24	80.2375	0.4875	4982.1750	965.9670	0.1144	0.0222
25	80.2500	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	80.2625	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	80.2750	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	80.2875	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	80.3000	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	80.3125	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	80.3250	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	80.3375	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	80.3500	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	80.3625	0.6125	7900.6950	1761.8875	0.1814	0.0404
35	80.3750	0.6250	8265.5100	1862.9177	0.1897	0.0428
36	80.3875	0.6375	8630.3250	1968.5084	0.1981	0.0452
37	80.4000	0.6500	8995.1400	2078.6597	0.2065	0.0477
38	80.4125	0.6625	9359.9550	2193.3715	0.2149	0.0504
39	80.4250	0.6750	9724.7700	2312.6438	0.2233	0.0531
40	80.4375	0.6875	10089.5850	2436.4765	0.2316	0.0559
41	80.4500	0.7000	10454.4000	2564.8697	0.2400	0.0589
42	80.4750	0.7250	11287.4850	2836.5767	0.2591	0.0651
43	80.5000	0.7500	12120.5700	3129.1156	0.2782	0.0718
44	80.5250	0.7750	12953.6550	3442.4857	0.2974	0.0790
45	80.5500	0.8000	13786.7400	3776.6866	0.3165	0.0867
46	80.5750	0.8250	14619.8250	4131.7177	0.3356	0.0949
47	80.6000	0.8500	15452.9100	4507.5788	0.3548	0.1035
48	80.6250	0.8750	16285.9950	4904.2696	0.3739	0.1126
49	80.6500	0.9000	17119.0800	5321.7897	0.3930	0.1222
50	85.7700	6.0200	17119.0800	92971.4793	0.3930	2.1343

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| FREE OUTFALL DATA (DATA GROUP I1) |
| BOUNDARY CONDITION ON DATA GROUP J1 |
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Outfall at Junction....SYS-E-OUT has boundary condition number... 1

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| INTERNAL CONNECTIVITY INFORMATION |
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CONDUIT	JUNCTION	JUNCTION
FREE # 1	SYS-E-OUT	BOUNDARY

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| Boundary Condition Information |
| Data Groups J1-J4 |
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| XP Note Field Summary |
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| Table E9 - JUNCTION SUMMARY STATISTICS |
| The Maximum area is only the area of the node, it |
| does not include the area of the surrounding conduits|
==

Junction Name	Ground Elevation feet	Uppermost PipeCrown Elevation feet	Maximum Junction Elevation feet	Time of Occurence Hr.	Min.	Feet of Surcharge at Max Elevation	Freeboard of node feet	Maximum Junction Area ft^2	Maximum Gutter Depth feet	Maximum Gutter Width feet	Maximum Gutter Velocity ft/s
E-OUT	86.1400	86.0850	86.5715	26	16	0.4865	0.0000	194355.43	0.0000	0.0000	0.0000
MH-E1	86.1100	81.8970	86.5716	26	16	4.6746	0.0000	7932.9133	0.0000	0.0000	0.0000
E-10	86.4000	81.9800	86.5713	26	17	4.5913	0.0000	5934.4047	0.0000	0.0000	0.0000
E-11	85.9600	81.8950	86.5720	26	17	4.6770	0.0000	9220.7962	0.0000	0.0000	0.0000
E-28	86.3600	82.3950	86.5719	26	17	4.1769	0.0000	6179.8379	0.0000	0.0000	0.0000
E-8	86.2500	82.2620	86.5721	26	22	4.3101	0.0000	6900.2420	0.0000	0.0000	0.0000
E-18	85.7700	81.9500	86.5726	26	27	4.6226	0.0000	13873.501	0.0000	0.0000	0.0000
E-27	85.8800	82.5300	86.5731	26	31	4.0431	0.0000	10252.650	0.0000	0.0000	0.0000
E-30	86.4800	83.5240	86.6109	18	13	3.0869	0.0000	5699.3041	0.0000	0.0000	0.0000
E-7	85.7700	82.4000	86.5733	26	22	4.1733	0.0000	13895.674	0.0000	0.0000	0.0000
E-12	86.1000	82.0450	86.5734	26	27	4.5284	0.0000	8027.4855	0.0000	0.0000	0.0000
E-26	86.2100	82.6230	86.5738	26	31	3.9508	0.0000	7194.2507	0.0000	0.0000	0.0000
E-31	85.9700	81.8340	86.6756	18	11	4.8416	0.0000	10125.344	0.0000	0.0000	0.0000
E-30OFF	86.4000	83.5520	86.6112	18	13	3.0592	0.0000	12457.951	0.0000	0.0000	0.0000
E-6	86.4100	82.5830	86.5742	26	22	3.9912	0.0000	5892.1377	0.0000	0.0000	0.0000
E-13	86.6300	82.1950	86.5737	26	27	4.3787	0.0563	12.5660	0.0000	0.0000	0.0000
E-25	86.7500	82.7780	86.5747	26	31	3.7967	0.1753	12.5660	0.0000	0.0000	0.0000
E-32	85.5300	81.9620	86.7747	18	9	4.8127	0.0000	17359.068	0.0000	0.0000	0.0000
E-2	86.4500	83.0050	86.5759	26	24	3.5709	0.0000	5670.8169	0.0000	0.0000	0.0000
E-14	86.7500	82.4700	86.5744	26	27	4.1044	0.1756	12.5660	0.0000	0.0000	0.0000
E-23	86.7000	83.0970	86.5764	26	31	3.4794	0.1236	12.5660	0.0000	0.0000	0.0000
E-33	85.1800	82.0610	86.8499	18	7	4.7889	0.0000	17119.080	0.0000	0.0000	0.0000
E-1	86.1200	83.1000	86.5763	26	23	3.4763	0.0000	4479.6068	0.0000	0.0000	0.0000
E-15	86.2200	82.6200	86.5749	26	26	3.9549	0.0000	7129.9003	0.0000	0.0000	0.0000

E-22	86.2300	83.2300	86.5771	26	31	3.3471	0.0000	2937.7901	0.0000	0.0000	0.0000	
E-34	85.6600	82.1970	86.9570	17	56	4.7600	0.0000	18290.886	0.0000	0.0000	0.0000	
E-5	86.5800	83.2310	86.5764	26	24	3.3454	0.0036	12.5660	0.0000	0.0000	0.0000	
E-16	85.7700	82.7500	86.5764	26	23	3.8264	0.0000	13999.619	0.0000	0.0000	0.0000	
E-21	86.5800	83.3310	86.5771	26	31	3.2461	0.0029	12.5660	0.0000	0.0000	0.0000	
E-34OFF	85.2500	82.2500	87.0018	17	50	4.7518	0.0000	28823.474	0.0000	0.0000	0.0000	
E-4	87.0100	83.3540	86.5765	26	24	3.2225	0.4335	12.5660	0.0000	0.0000	0.0000	
E-17	86.1800	82.8670	86.5778	26	24	3.7108	0.0000	7442.3887	0.0000	0.0000	0.0000	
E-20	87.1100	83.4810	86.5772	26	31	3.0962	0.5328	12.5660	0.0000	0.0000	0.0000	
E-21OFF	86.9300	83.3450	86.5771	26	31	3.2321	0.3529	12.5660	0.0000	0.0000	0.0000	
SYS-E-OUT	86.0000	85.7250	86.5700	26	14	0.8450	0.0000	8841.3353	0.0000	0.0000	0.0000	
MH-E2	86.0000	85.7750	86.5703	26	16	0.7953	0.0000	8843.8488	0.0000	0.0000	0.0000	

Table E10 - CONDUIT SUMMARY STATISTICS

Note: The peak flow may be less than the design flow and the conduit may still surcharge because of the downstream boundary conditions.

* denotes an open conduit that has been overtopped this is a potential source of severe errors

Conduit Name	Design Flow (cfs)	Conduit Design Velocity (ft/s)	Maximum Vertical Depth (in)	Maximum Computed Flow (cfs)	Time of Occurence Hr.	Time of Occurence Min.	Maximum Computed Velocity (ft/s)	Time of Occurence Hr.	Time of Occurence Min.	Ratio of Max. to Design Flow	Maximum Water Elev at Pipe Ends Upstream (ft)	Maximum Water Elev at Pipe Ends Dwnstrm (ft)	Ratio d/D US	Ratio d/D DS	
L_L-MH-E1	65.8503	3.6583	36.0000	142.1890	16	15	7.8754	16	15	2.1593	86.5716	86.5715	2.823	2.829	
L_L-E-10	52.0366	3.4691	36.0000	51.1169	16	14	3.5980	0	1	0.9823	86.5713	86.5716	2.530	2.558	
L_L-E-11	39.2722	3.2727	36.0000	43.2522	16	15	3.5978	16	15	1.1013	86.5720	86.5716	2.559	2.573	
L_L-E-28	65.0255	3.6125	36.0000	95.1204	16	15	5.2666	16	15	1.4628	86.5719	86.5716	2.726	2.823	
L_L-E-8	51.9245	3.4616	36.0000	47.0221	16	15	3.1296	16	15	0.9056	86.5721	86.5713	2.437	2.530	
L_L-E-18	39.2832	3.2736	36.0000	39.0229	16	15	3.2460	16	15	0.9934	86.5726	86.5720	2.541	2.559	
L_L-E-27	51.8594	3.4573	36.0000	73.1700	16	15	6.5397	0	0	1.4109	86.5731	86.5719	2.348	2.392	
L_L-E-30	51.9515	3.4634	36.0000	99.7946	16	4	6.6296	16	4	1.9209	86.6109	86.5719	2.641	2.726	
L_L-E-7	39.1600	3.2633	36.0000	41.5076	16	15	6.5694	0	0	1.0599	86.5733	86.5721	2.391	2.437	
L_L-E-12	39.0511	3.2543	36.0000	33.9443	16	15	2.8236	16	15	0.8692	86.5734	86.5726	2.509	2.541	
L_L-E-26	52.0344	3.4690	36.0000	64.9371	16	15	4.3210	16	15	1.2480	86.5738	86.5731	2.317	2.348	
L_L-E-31	51.9848	3.4657	36.0000	74.6265	16	3	4.9559	16	3	1.4355	86.6756	86.6109	2.615	2.641	
Link820	73.4350	4.8957	36.0000	33.5802	16	6	6.2200	0	0	0.4573	86.6112	86.6109	2.020	2.029	
L_L-E-6	39.1204	3.2600	36.0000	30.7895	16	15	2.6412	0	0	0.7870	86.5742	86.5733	2.330	2.391	
L_L-E-13	39.1561	3.2630	36.0000	28.8727	16	15	2.7306	0	0	0.7374	86.5737	86.5734	2.460	2.509	
L_L-E-25	39.1315	3.2610	36.0000	59.5975	16	15	6.6083	0	0	1.5230	86.5747	86.5738	2.266	2.317	
L_L-E-32	39.2152	3.2679	36.0000	69.3873	16	3	6.7502	0	0	1.7694	86.7747	86.6756	2.604	2.614	
L_L-E-2	26.8642	2.9849	36.0000	23.7669	16	15	6.2634	0	0	0.8847	86.5759	86.5742	2.190	2.330	
L_L-E-14	26.8550	2.9839	36.0000	23.6392	16	15	6.2274	0	0	0.8803	86.5744	86.5737	2.368	2.460	
L_L-E-23	39.1108	3.2592	36.0000	54.3148	16	15	4.5146	16	15	1.3887	86.5764	86.5747	2.160	2.266	
L_L-E-33	39.2388	3.2699	36.0000	64.9401	16	7	5.3868	16	7	1.6550	86.8499	86.7747	2.596	2.604	
L_L-E-1	21.0807	2.9823	36.0000	16.8760	16	15	5.8773	0	0	0.8005	86.5763	86.5759	2.159	2.190	
L_L-E-15	21.0919	2.9839	36.0000	19.5613	16	15	6.4321	0	0	0.9274	86.5749	86.5744	2.318	2.368	
L_L-E-22	39.1709	3.2642	36.0000	48.9118	16	15	4.0644	16	15	1.2487	86.5771	86.5764	2.116	2.160	
L_L-E-34	39.1860	3.2655	36.0000	58.7384	16	5	4.8720	16	5	1.4990	86.9570	86.8499	2.587	2.596	
L_L-E-5	12.9508	2.6383	30.0000	9.1038	16	15	4.8259	0	0	0.7030	86.5764	86.5763	2.338	2.391	
L_L-E-16	21.1174	2.9875	36.0000	14.4828	16	15	2.4468	0	0	0.6858	86.5764	86.5749	2.275	2.318	
L_L-E-21	26.8529	2.9837	36.0000	40.9557	16	15	4.5368	16	15	1.5252	86.5771	86.5771	2.082	2.116	
Link836	39.2546	3.2712	36.0000	53.9845	16	5	4.4765	16	5	1.3752	87.0018	86.9570	2.584	2.587	
L_L-E-4	7.1456	2.2745	24.0000	4.9827	0	0	4.3106	0	0	0.6973	86.5765	86.5764	2.611	2.673	
L_L-E-17	7.1533	2.2770	24.0000	10.2708	29	13	4.6468	0	0	1.4358	86.5778	86.5764	2.855	2.913	
L_L-E-20	7.1538	2.2771	24.0000	6.1249	16	16	4.3426	0	0	0.8562	86.5772	86.5771	2.548	2.623	
Link840	12.9708	2.6424	30.0000	30.0761	16	16	6.5207	0	0	2.3188	86.5771	86.5771	2.293	2.298	
L_L-E-OUT	918.5509	3.5881	96.0000	273.8540	16	15	3.4438	16	0	0.2981	86.5715	86.5703	1.061	1.099	*
L_L-MH-E2	918.5509	3.5881	96.0000	265.7569	16	12	3.9476	15	48	0.2893	86.5703	86.5700	1.099	1.106	*
FREE # 1	Undefnd	Undefnd	Undefn	265.7569	16	12									

Table E15 - SPREADSHEET INFO LIST

Conduit Flow and Junction Depth Information for use in spreadsheets. The maximum values in this table are the true maximum values because they sample every time step. The values in the review results may only be the maximum of a subset of all the time steps in the run. Note: These flows are only the flows in a single barrel.

Conduit Name	Maximum Flow (cfs)	Total Flow (ft^3)	Maximum Velocity (ft/s)	Maximum Volume (ft^3)	##	Junction Name	Invert Elevation (ft)	Maximum Elevation (ft)
L_L-MH-E1	142.1890	2555412.970	7.8754	597.8218	##	E-OUT	78.0850	86.5715
L_L-E-10	51.1169	255485.6382	3.5980	1249.9228	##	MH-E1	78.1020	86.5716
L_L-E-11	43.2522	217247.7792	3.5978	517.2424	##	E-10	78.9800	86.5713
L_L-E-28	95.1204	2078454.836	5.2666	10305.1964	##	E-11	78.8950	86.5720
L_L-E-8	47.0221	234657.3161	3.1296	4264.5001	##	E-28	78.3930	86.5719
L_L-E-18	39.0229	196569.6563	3.2460	660.3684	##	E-8	79.2620	86.5721
L_L-E-27	73.1700	556671.7921	6.5397	2045.2444	##	E-18	78.9500	86.5726
L_L-E-30	99.7946	1204785.351	6.6296	4445.6590	##	E-27	79.5300	86.5731
L_L-E-7	41.5076	207105.8428	6.5694	1666.2280	##	E-30	78.6870	86.6109
L_L-E-12	33.9443	171800.9223	2.8236	1154.0432	##	E-7	79.4000	86.5733
L_L-E-26	64.9371	518889.2125	4.3210	1399.1752	##	E-12	79.0450	86.5734
L_L-E-31	74.6265	939751.2007	4.9559	2188.8567	##	E-26	79.6230	86.5738
Link820	33.5802	242000.3916	6.2200	212.1874	##	E-31	78.8320	86.6756
L_L-E-6	30.7895	154261.0633	2.6412	2213.5338	##	E-30OFF	80.5520	86.6112
L_L-E-13	28.8727	146691.2900	2.7306	1812.1344	##	E-6	79.5830	86.5742
L_L-E-25	59.5975	493147.4697	6.6083	1873.1052	##	E-13	79.1950	86.5737
L_L-E-32	69.3873	915431.8253	6.7502	1542.8926	##	E-25	79.7780	86.5747
L_L-E-2	23.7669	116805.6628	6.2634	3820.6640	##	E-32	78.9620	86.7747
L_L-E-14	23.6392	120746.8735	6.2274	2493.0621	##	E-2	80.0050	86.5759
L_L-E-23	54.3148	467245.2951	4.5146	3858.0554	##	E-14	79.4700	86.5744
L_L-E-33	64.9401	894395.3659	5.3868	1191.5294	##	E-23	80.0970	86.5764
L_L-E-1	16.8760	80903.6499	5.8773	704.7140	##	E-33	79.0610	86.8499
L_L-E-15	19.5613	100524.2732	6.4321	1111.5247	##	E-1	80.1000	86.5763
L_L-E-22	48.9118	439131.7867	4.0644	1603.6605	##	E-15	79.6200	86.5749

L_L-E-34	58.7384	856578.7729	4.8720	1641.2884	##	E-22	80.2300	86.5771
L_L-E-5	9.1038	43901.8965	4.8259	676.2032	##	E-34	79.1970	86.9570
L_L-E-16	14.4828	75627.6022	2.4468	960.9946	##	E-5	80.7310	86.5764
L_L-E-21	40.9557	400742.5763	4.5368	914.8227	##	E-16	79.7500	86.5764
Link836	53.9845	829552.1764	4.4765	637.9888	##	E-21	80.3310	86.5771
L_L-E-4	4.9827	23675.0197	4.3106	406.0276	##	E-34OFF	79.2500	87.0018
L_L-E-17	10.2708	35430.3035	4.6468	385.3813	##	E-4	81.3540	86.5765
L_L-E-20	6.1249	24375.0281	4.3426	494.0109	##	E-17	80.8670	86.5778
Link840	30.0761	351791.3765	6.5207	72.0433	##	E-20	81.4810	86.5772
L_L-E-OUT	273.8540	2558841.083	3.4438	79360.0000	##	E-21OFF	80.8450	86.5771
L_L-MH-E2	265.7569	2555072.006	3.9476	12800.0000	##	SYS-E-OUT	77.7250	86.5700
FREE # 1	265.7569	2555156.878	0.0000	0.0000	##	MH-E2	77.7750	86.5703

Table E15a - SPREADSHEET REACH LIST
Peak flow and Total Flow listed by Reach or those conduits or diversions having the same upstream and downstream nodes.

Upstream Node	Downstream Node	Maximum Flow (cfs)	Total Flow (ft^3)
MH-E1	E-OUT	284.3780	2555412.97
E-10	MH-E1	51.1169	255485.638
E-11	MH-E1	43.2522	217247.779
E-28	MH-E1	190.2408	2078454.84
E-8	E-10	47.0221	234657.316
E-18	E-11	39.0229	196569.656
E-27	E-28	73.1700	556671.792
E-30	E-28	99.7946	1204785.35
E-7	E-8	41.5076	207105.843
E-12	E-18	33.9443	171800.922
E-26	E-27	64.9371	518889.213
E-31	E-30	74.6265	939751.201
E-30OFF	E-30	33.5802	242000.392
E-6	E-7	30.7895	154261.063
E-13	E-12	28.8727	146691.290
E-25	E-26	59.5975	493147.470
E-32	E-31	69.3873	915431.825
E-2	E-6	23.7669	116805.663
E-14	E-13	23.6392	120746.873
E-23	E-25	54.3148	467245.295
E-33	E-32	64.9401	894395.366
E-1	E-2	16.8760	80903.6499
E-15	E-14	19.5613	100524.273
E-22	E-23	48.9118	439131.787
E-34	E-33	58.7384	856578.773
E-5	E-1	9.1038	43901.8965
E-16	E-15	14.4828	75627.6022
E-21	E-22	40.9557	400742.576
E-34OFF	E-34	53.9845	829552.176
E-4	E-5	4.9827	23675.0197
E-17	E-16	10.2708	35430.3035
E-20	E-21	6.1249	24375.0281
E-21OFF	E-21	30.0761	351791.376
E-OUT	MH-E2	273.8540	2558841.08
MH-E2	SYS-E-OUT	265.7569	2555072.01

Table E19 - Junction Inflow & Outflow Listing
Units are either ft^3 or m^3 depending on the units in your model.

Junction Name	Constant Inflow to Node	User Inflow to Node	Interface Inflow to Node	DWF Inlow to Node	Inflow through Outfall	RNF Layer Inflow to Node	Outflow from Node	Evaporation from Node	Inflow from 2D Layer
E-10	0.0000	19539.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
E-11	0.0000	20286.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
E-28	0.0000	312691.7950	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
E-8	0.0000	26343.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
E-18	0.0000	24372.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	

E-27	0.0000	37071.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
E-30	0.0000	21006.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
E-7	0.0000	52065.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
E-12	0.0000	24390.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
E-26	0.0000	25182.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
E-31	0.0000	23526.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
E-30OFF	0.0000	240844.5850	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
E-6	0.0000	35271.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
E-13	0.0000	25128.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
E-25	0.0000	24723.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
E-32	0.0000	20700.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
E-2	0.0000	33210.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
E-14	0.0000	19530.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
E-23	0.0000	27144.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
E-33	0.0000	38016.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
E-1	0.0000	36846.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
E-15	0.0000	24354.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
E-22	0.0000	37962.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
E-34	0.0000	26685.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
E-5	0.0000	19998.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
E-16	0.0000	40050.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
E-21	0.0000	24354.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
E-34OFF	0.0000	829283.2050	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
E-4	0.0000	23589.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
E-17	0.0000	29709.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
E-20	0.0000	24174.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
E-21OFF	0.0000	351765.1800	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
SYS-E-OUT	0.0000	0.0000	0.0000	0.0000	56907.9422	0.0000	2.6121E+06	0.0000

Table E20 - Junction Flooding and Volume Listing. The maximum volume is the total volume in the node including the volume in the flooded storage area. This is the max volume at any time. The volume in the flooded storage area is the total volume above the ground elevation, where the flooded pond storage area starts. The fourth column is instantaneous, the fifth is the sum of the flooded volume over the entire simulation. Units are either ft^3 or m^3 depending on the units.

Junction Name	Surcharged Time (min)	Flooded Time(min)	Out of 1D-System (Flooded Volume)	Maximum Volume	Passed to 2D cell OR Volume Stored in allowed Flood Pond of 1D-System
E-OUT	669.2500	657.3583	0.0000	40533.0359	64272.1391
MH-E1	984.1917	664.2083	0.0000	3033.5418	3992.8204
E-10	981.9917	302.4750	0.0000	1027.6444	1052.3710
E-11	984.9333	697.7250	0.0000	4309.5750	5959.9547
E-28	974.3583	466.0500	0.0000	1279.9512	1755.8579
E-8	974.4000	628.8167	0.0000	1988.0532	5142.1018
E-18	983.3917	726.4583	0.0000	3898.3948	6528.1515
E-27	971.9667	722.5917	0.0000	2573.0987	3841.8529
E-30	945.9083	294.6833	0.0000	797.2310	1351.2048
E-7	971.0000	728.3917	0.0000	3901.9786	9840.9979
E-12	980.6750	669.3167	0.0000	3116.1386	4733.6690
E-26	969.9583	655.1417	0.0000	2277.0230	3725.7639
E-31	1000.0167	739.6750	0.0000	5215.0399	8595.7057
E-30OFF	943.0250	0.0000	0.0000	10470.9366	0.0000
E-6	966.1667	316.8667	0.0000	977.9258	3098.5016
E-13	976.7583	0.0000	0.0000	92.7208	0.0000
E-25	967.1583	0.0000	0.0000	85.4069	0.0000
E-32	997.8167	807.3333	0.0000	12441.6019	18483.4142
E-2	955.8583	245.6583	0.0000	751.8047	2559.7656
E-14	969.8750	0.0000	0.0000	89.2737	0.0000
E-23	960.4917	0.0000	0.0000	81.4196	0.0000
E-33	995.8833	847.5833	0.0000	18579.3255	27866.0864
E-1	952.2333	663.4000	0.0000	894.1081	4826.1981
E-15	965.9500	637.7500	0.0000	2212.8359	3431.1763
E-22	957.3833	673.4583	0.0000	494.9221	945.0559
E-34	993.3333	807.0833	0.0000	13372.1001	19625.2673

E-5	948.3833	0.0000	0.0000	73.4530	0.1088
E-16	961.5750	731.3250	0.0000	3941.0864	9949.5702
E-21	955.1250	0.0000	0.0000	78.4886	0.2110
E-34OFF	992.1333	850.8417	0.0000	23898.8703	33960.8704
E-4	944.2167	0.0000	0.0000	65.6256	0.0000
E-17	958.2833	681.3917	0.0000	2509.1518	5396.8155
E-20	951.5000	0.0000	0.0000	64.0383	0.0000
E-21OFF	955.3917	0.0000	0.0000	72.0298	0.0000
SYS-E-OUT	733.1250	0.0000	0.0000	3945.3189	5.1437
MH-E2	725.3583	686.5500	0.0000	3947.2041	13019.4030

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| Simulation Specific Information |
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Number of Input Conduits.....	35	Number of Simulated Conduits.....	36
Number of Natural Channels.....	0	Number of Junctions.....	36
Number of Storage Junctions.....	9	Number of Weirs.....	0
Number of Orifices.....	0	Number of Pumps.....	0
Number of Free Outfalls.....	1	Number of Tide Gate Outfalls.....	0

==
| Average % Change in Junction or Conduit is defined as: |
| Conduit % Change ==> 100.0 (Q(n+1) - Q(n)) / Qfull |
| Junction % Change ==> 100.0 (Y(n+1) - Y(n)) / Yfull |
==

The Conduit with the largest average change was..Link820 with 3.974 percent
The Junction with the largest average change was.E-30OFF with 1.003 percent
The Conduit with the largest sinuosity was.......Link820 with 203.835

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| Table E21. Continuity balance at the end of the simulation |
| Junction Inflow, Outflow or Street Flooding |
| Error = Inflow + Initial Volume - Outflow - Final   Volume |
==

Inflow Junction	Inflow Volume,ft^3	Average Inflow, cfs
E-10	19539.7227	0.1131
E-11	20286.7494	0.1174
E-28	312695.7155	1.8096
E-8	26343.9740	0.1525
E-18	24372.9000	0.1410
E-27	37072.3673	0.2145
E-30	21006.7748	0.1216
E-7	52066.8547	0.3013
E-12	24390.9000	0.1412
E-26	25182.9316	0.1457
E-31	23526.8683	0.1362
E-30OFF	240849.0007	1.3938
E-6	35272.1491	0.2041
E-13	25128.9266	0.1454
E-25	24723.9158	0.1431
E-32	20700.7627	0.1198
E-2	33211.1991	0.1922
E-14	19530.7202	0.1130
E-23	27144.9971	0.1571
E-33	38017.4000	0.2200
E-1	36847.4255	0.2132
E-15	24354.8975	0.1409
E-22	37963.4680	0.2197
E-34	26685.9838	0.1544
E-5	19998.7372	0.1157
E-16	40051.4752	0.2318
E-21	24355.0041	0.1409
E-34OFF	829292.7155	4.7991
E-4	23589.8694	0.1365
E-17	29710.0507	0.1719
E-20	24174.9247	0.1399
E-21OFF	351771.1261	2.0357
SYS-E-OUT	56907.9422	0.3293
SYS-E-OUT	-2.612E+06	-15.1161

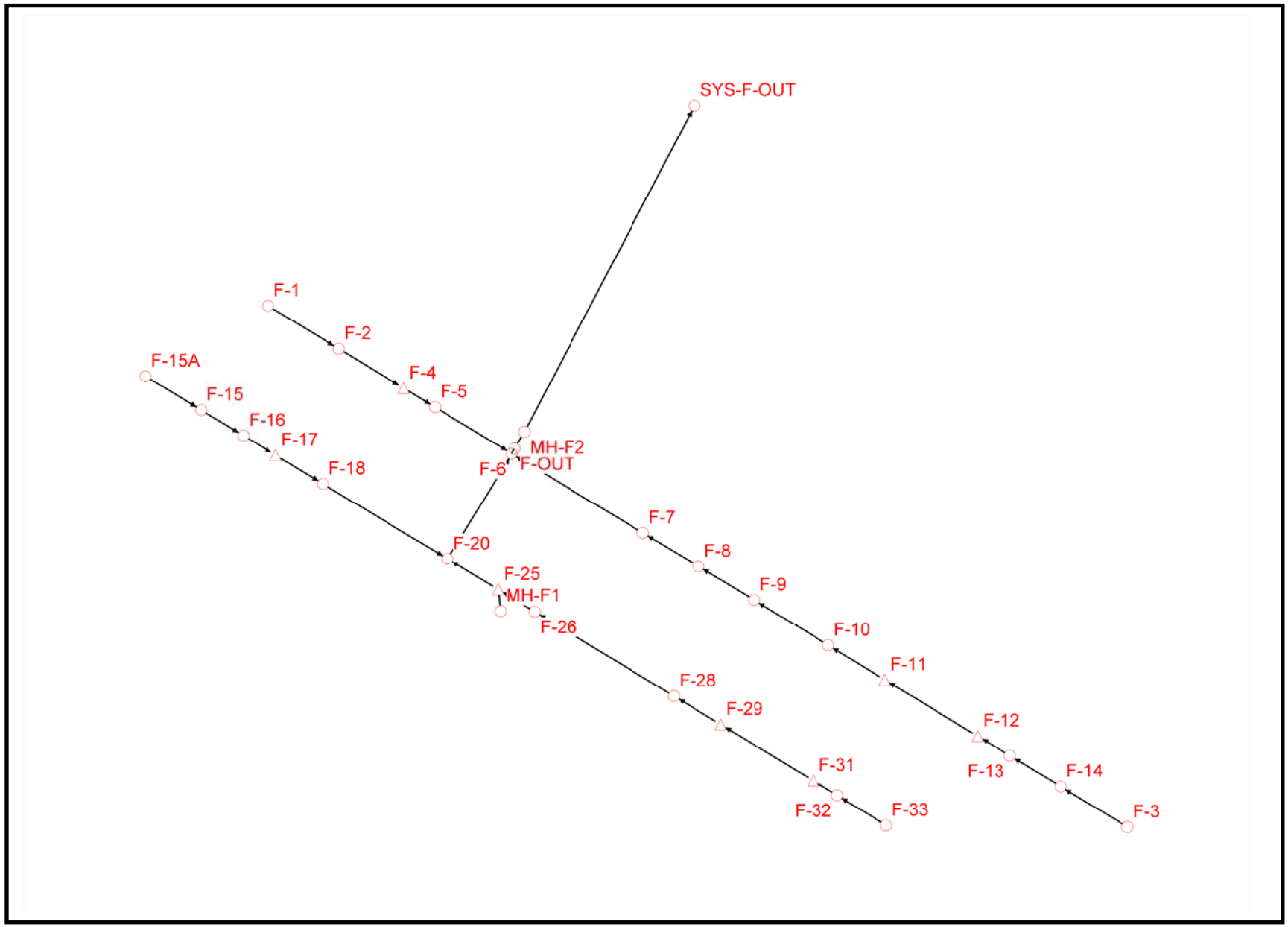
Outflow Junction	Outflow Volume,ft^3	Average Outflow, cfs
SYS-E-OUT	2.61206E+06	15.1161

==

```
| Initial system volume        =     28233.1445 Cu Ft |

| Total system inflow volume   =   2.576716E+06 Cu Ft |

| Inflow + Initial volume      =   2.604949E+06 Cu Ft |

*=====================================================*

| Total system outflow         =   2.612065E+06 Cu Ft |

| Volume left in system        =      3682.4154 Cu Ft |

| Evaporation                  =         0.0000 Cu Ft |

| Outflow + Final Volume       =   2.615747E+06 Cu Ft |

*=====================================================*


*=============================================*
| Total Model Continuity Error                |
| Error in Continuity, Percent =        -0.3145 |
| Error in Continuity, ft^3    =     -8193.232 |
| + Error means a continuity loss, - a gain   |
*=============================================*

#####################################################
# Table E22. Numerical Model judgement section    #
#####################################################

Your overall error was                                    -0.3145 percent


Worst nodal error was in node E-17             with       -8.6553 percent


Of the total inflow this loss was                          0.2190 percent


Your overall continuity error was                  Excellent


                                                 Excellent Efficiency


Efficiency of the simulation                       2.07


Most Number of Non Convergences at one Node     1163.


Total Number Non Convergences at all Nodes      1163.


Total Number of Nodes with Non Convergences        1.



===> Hydraulic model simulation ended normally.
===> XP-SWMM Simulation ended normally.


===> Your input file was named  : P:\PROJECTS\290PMC\PHASEII\DRA\Models\SWMM\Outfalls 9-16\SWMM\Report 6-2011\Mitigated\US290_Mit_SegB_SysE.DAT
===> Your output file was named : P:\PROJECTS\290PMC\PHASEII\DRA\Models\SWMM\Outfalls 9-16\SWMM\Report 6-2011\Mitigated\US290_Mit_SegB_SysE.out

*============================================================*
|             SWMM Simulation Date and Time Summary          |
*============================================================*
| Starting Date... June       24, 2011  Time...   14:45:13:99  |
|   Ending Date... June       24, 2011  Time...   14:57:57:12  |
|  Elapsed Time...   12.71883 minutes or     763.13000 seconds  |
*============================================================*
```

OUTFALL 15
SWMM OUTPUT
100 YR- MITIGATED CONDITIONS

OUTFALL 15
MITIGATED CONDITIONS SWMM LAYOUT



```
 Current Directory:   C:\XPS\xpstorm
 Engine Name: C:\XPS\xpstorm\SWMMEN~1.EXE


 Input File : Outfalls 9-16\SWMM\Report 6-2011\Mitigated\US290_Mit_SegB_SysF.XP

          *================================================*
          |                     xpswmm                     |
          |     Storm and Wastewater Management Model      |
          |           Interface Version: 10.52             |
          |              Engine Version: 10.54             |
          |================================================|
          |                                                |
          |                 Developed by                   |
          |                                                |
          |                 XP Software                    |
          |                                                |
          |================================================|
          |      XP Software       November, 2006          |
          |       Data File Version --->    11.9           |
          |       Serial Number: 66-1052-0602              |
          |                H & H Resources                 |
          *================================================*

Engine Name: C:\XPS\xpstorm\SWMMEN~1.EXE


*====================================================*
|       Input and Output file names by Layer         |
*====================================================*

 Input File  to Layer #     1 JOT.US
 Output File to Layer #     1 JOT.US

*============================================================*
|   Special command line arguments in XP-SWMM2000. This     |
|   now includes program defaults. $Keywords are the program|
|   defaults.  Other Keywords are from the SWMMCOM.CFG file.|
|   or the command line or any cfg file on the command line.|
|   Examples include these in the file xpswm.bat under the   |
|   section :solve or in the windows version XPSWMM32 in the|
|   file solve.bat                                           |
|                                                            |
|   Note: the cfg file should be in the subdirectory swmxp   |
|         or defined by the set variable in the xpswm.bat    |
|         file.  Some examples of the command lines possible|
|         are shown below:                                   |
|                                                            |
|   swmmd swmmcom.cfg                                        |
|   swmmd my.cfg                                             |
|   swmmd nokeys nconv5 perv extranwq                        |
*============================================================*

 $powerstation                        0.0000         1         2
 $perv                                0.0000         0         4
 $oldegg                              0.0000         0         7
 $as                                  0.0000         0        11
 $noflat                              0.0000         0        21
 $oldomega                            0.0000         0        24
 $oldvol                              0.0000         1        28
 $implicit                            0.0000         1        29
 $oldhot                              0.0000         1        31
 $oldscs                              0.0000         0        33
 $flood                               0.0000         1        40
 $nokeys                              0.0000         0        42
 $pzero                               0.0000         0        55
 $oldvol2                             0.0000         2        59
 $storage2                            0.0000         3        62
 $oldhot1                             0.0000         1        63
 $pumpwt                              0.0000         1        70
 $ecloss                              0.0000         1        77
 $exout                               0.0000         0        97
 SPATIAL=0.55                         0.5500         5       124
 $djref = -1.0                       -0.1000         3       143
 $weirlen = 50                       50.0000         1       153
 $oldbnd                              0.0000         1       154
 $nogrelev                            0.0000         1       161
 $ncmid                               0.0000         0       164
 $new_nl_97                           0.0000         2       290
 $best97                              0.0000         1       294
 $newbound                            0.0000         1       295
 $q_tol = 0.01                        0.0001         1       316
 $new_storage                         0.0000         1       322
 $old_iteration                       0.0000         1       333
 MINLEN=10                           10.0000         1       346
 $review_elevation                    0.0000         1       383
 $use_half_volume                     0.0000         1       385
 $min_ts = 0.5                        0.5000         1       407
 $design_restart = on                 0.0000         1       412
 $zero_value=1.e-05                   0.0000         1       415
 $relax_depth = on                    0.0000         1       427
 $saveallpts = on                     0.0000         1       434

 *============================================================*
 | Parameter Values on the Tapes Common Block.These are the |
 | values read from the data file and dynamically allocated |
 | by the model for this simulation.                        |
 *============================================================*

  Number of Subcatchments in the Runoff Block (NW)....     0
  Number of Channel/Pipes in the Runoff Block (NG)....     0
  Runoff Water quality constituents (NRQ).............     0
  Runoff Land Uses per Subcatchment (NLU).............     0
  Number of Elements in the Transport Block (NET).....     0
  Number of Storage Junctions in Transport (NTSE).....     0
  Number of Input Hydrographs in Transport (NTH)......     0
  Number of Elements in the Extran Block (NEE)........    31
  Number of Groundwater Subcatchments in Runoff (NGW).     0
  Number of Interface locations for all Blocks (NIE)..    31
  Number of Pumps in Extran (NEP).....................     0
  Number of Orifices in Extran (NEO)..................     0
  Number of Tide Gates/Free Outfalls in Extran (NTG)..     1
  Number of Extran Weirs (NEW)........................     0
  Number of scs hydrograph points.....................     1
  Number of Extran printout locations (NPO)...........     0
  Number of Tide elements in Extran (NTE).............     1
  Number of Natural channels (NNC)....................     2
  Number of Storage junctions in Extran (NVSE)........     7
  Number of Time history data points in Extran(NTVAL).   300
  Number of Variable storage elements in Extran (NVST)     7
  Number of Input Hydrographs in Extran (NEH).........    28
  Number of Particle sizes in Transport Block (NPS)...     0
  Number of User defined conduits (NHW)...............    31
  Number of Connecting conduits in Extran (NECC)......    20
  Number of Upstream elements in Transport (NTCC).....    10
  Number of Storage/treatment plants (NSTU)...........     1
```

```
 Number of Values for R1 lines in Transport (NR1)....     0
 Number of Nodes to be allowed for (NNOD)............    31
 Number of Plugs in a Storage Treatment Unit.........     1


#####################################################
#    Entry made to the HYDRAULIC Layer(Block) of SWMM #
#    Last Updated June,2005 by XP Software          #

    US 290/ Hempstead Highway Corridor - From W.Little York to Hollister
    Drainage Impact & Mitigation Study - Existing Conditions - SegB_SysA -1


*=========================================================*
|        HYDRAULICS TABLES IN THE OUTPUT FILE             |
|  These are the more important tables in the output file.  |
|  You can use your editor to find the table numbers,       |
|  for example: search for Table E20 to check continuity.   |
|  This output file can be imported into a Word Processor   |
|  and printed on US letter or A4 paper using portrait      |
|  mode, courier font, a size of 8 pt. and margins of 0.75  |
|                                                           |
| Table E1   - Basic Conduit Data                           |
| Table E2   - Conduit Factor Data                          |
| Table E3a  - Junction Data                                |
| Table E3b  - Junction Data                                |
| Table E4   - Conduit Connectivity Data                    |
| Table E4a  - Dry Weather Flow Data                        |
| Table E4b  - Real Time Control Data                       |
| Table E5   - Junction Time Step Limitation Summary        |
| Table E5a  - Conduit Explicit Condition Summary           |
| Table E6   - Final Model Condition                        |
| Table E7   - Iteration Summary                            |
| Table E8   - Junction Time Step Limitation Summary        |
| Table E9   - Junction  Summary  Statistics                |
| Table E10  - Conduit   Summary  Statistics                |
| Table E11  - Area assumptions used in the analysis        |
| Table E12  - Mean conduit information                     |
| Table E13  - Channel losses(H) and culvert info           |
| Table E13a - Culvert Analysis Classification              |
| Table E14  - Natural Channel Overbank Flow Information    |
| Table E14a - Natural Channel Encroachment Information     |
| Table E14b - Floodplain Mapping                           |
| Table E15  - Spreadsheet Info List                        |
| Table E15a - Spreadsheet Reach List                       |
| Table E16  - New Conduit Output Section                   |
| Table E17  - Pump Operation                               |
| Table E18  - Junction Continuity Error                    |
| Table E19  - Junction Inflow & Outflow Listing            |
| Table E20  - Junction Flooding and Volume List            |
| Table E21  - Continuity balance at simulation end         |
| Table E22  - Model Judgement Section                      |
*=========================================================*

Time Control from Hydraulics Job Control
Year.........    1995 Month.......       1
Day..........       1 Hour........       0
Minute.......       0 Second......       0


Control information for simulation
----------------------------------

Integration cycles..................    172800
Length of integration step is......      1.00 seconds
Simulation length...................     48.00 hours
Do not create equiv. pipes(NEQUAL).         0
Use U.S. customary units for I/O...         0
Printing starts in cycle...........         1
Intermediate printout intervals of.       500 cycles
Intermediate printout intervals of.      8.33 minutes
Summary printout intervals of......       500 cycles
Summary printout time interval of..      8.33 minutes
Hot start file parameter (REDO)....         0
Initial time.......................      0.00 hours

Iteration variables: Flow Tolerance.   0.00010
                     Head Tolerance.   0.00010
    Minimum depth (m or ft).........   0.00001
    Underrelaxation parameter.......   0.85000
    Time weighting parameter........   0.85000
    Conduit roughness factor........   1.00000
    Flow adjustment factor..........   1.00000
    Initial Condition Smoothing.....         0
    Courant Time Step Factor........   1.00000
    Default Expansion/Contraction K.   0.00000
    Default Entrance/Exit K.........   0.00000
    Routing Method..................   Dynamic Wave
Default surface area of junctions...     12.57 square feet.
Minimum Junction/Conduit Depth......   0.00001 feet.
Ponding Area Coefficient............   5000.00
Ponding Area Exponent...............    1.0000
Minimum Orifice Length..............    500.00 feet.
NJSW input hydrograph junctions.....    28
     or user defined hydrographs....


        Natural Cross-Section information for Channel L_L-F-OUT
        =======================================================
         Cross-Section ID (from X1 card) :     1.0 Channel sequence number :     1

  Left Overbank Length   :     44.0 ft               Maximum Elevation        :    86.63 ft.
  Main Channel Length    :     44.0 ft               Maximum Depth            :    12.51 ft.
  Right Overbank Length  :     44.0 ft               Maximum Section Area     : 583.7265 ft^2
                                                     Maximum hydraulic radius :     4.25 ft.
  Manning N :      0.040  to Station         113.4    Max topwidth             :   132.70 ft.
    "    "  :      0.035  in main Channel             Maximum Wetted Perimeter : 1.37E+02 ft
    "    "  :      0.040  Beyond station     176.9    Max left bank area       :     5.15 ft^2
                                                     Max right bank area      :    87.62 ft^2
  Allowable Encroachment Depth :    0.00 ft          Max center channel area  : 490.9580 ft^2

        Natural Cross-Section information for Channel L_L-MH-F2
        =======================================================
         Cross-Section ID (from X1 card) :     2.0 Channel sequence number :     2

  Left Overbank Length   :    855.0 ft               Maximum Elevation        :    86.63 ft.
  Main Channel Length    :    855.0 ft               Maximum Depth            :    12.51 ft.
  Right Overbank Length  :    855.0 ft               Maximum Section Area     : 583.7265 ft^2
                                                     Maximum hydraulic radius :     4.25 ft.
  Manning N :      0.040  to Station         113.4    Max topwidth             :   132.70 ft.
    "    "  :      0.035  in main Channel             Maximum Wetted Perimeter : 1.37E+02 ft
    "    "  :      0.040  Beyond station     176.9    Max left bank area       :     5.15 ft^2
                                                     Max right bank area      :    87.62 ft^2
  Allowable Encroachment Depth :    0.00 ft          Max center channel area  : 490.9580 ft^2

*=================================================*
|          Table E1 - Conduit Data                |
*=================================================*
```

Inp Num	Conduit Name	Length (ft)	Conduit Class	Area (ft^2)	Manning Coef.	Max Width (ft)	Depth (ft)	Trapezoid Side Slopes
1	L_L-F-6	14.0070	Rectangle	40.0000	0.0130	8.0000	5.0000	
2	L_L-F-5	207.0670	Circular	7.0686	0.0130	3.0000	3.0000	
3	L_L-F-7	353.8700	Circular	12.5664	0.0130	4.0000	4.0000	
4	L_L-F-20	285.0910	Rectangle	40.0000	0.0130	8.0000	5.0000	
5	L_L-F-4	84.3780	Circular	4.9087	0.0130	2.5000	2.5000	
6	L_L-F-8	150.0000	Circular	12.5664	0.0130	4.0000	4.0000	
7	L_L-F-18	335.9350	Circular	7.0686	0.0130	3.0000	3.0000	
8	L_L-F-25	136.3790	Rectangle	40.0000	0.0130	8.0000	5.0000	
9	L_L-F-2	174.7200	Circular	3.1416	0.0130	2.0000	2.0000	
10	L_L-F-9	150.0000	Circular	12.5664	0.0130	4.0000	4.0000	
11	L_L-F-17	127.6850	Circular	4.9087	0.0130	2.5000	2.5000	
12	L_L-F-26	99.1460	Circular	9.6211	0.0130	3.5000	3.5000	
13	L_L-MH-F1	49.9500	Circular	12.5664	0.0130	4.0000	4.0000	
14	L_L-F-1	191.2630	Circular	3.1416	0.0130	2.0000	2.0000	
15	L_L-F-10	200.0000	Circular	9.6211	0.0130	3.5000	3.5000	
16	L_L-F-16	87.0060	Circular	4.9087	0.0130	2.5000	2.5000	
17	L_L-F-28	374.8380	Circular	7.0686	0.0130	3.0000	3.0000	
18	L_L-F-11	154.6850	Circular	9.6211	0.0130	3.5000	3.5000	
19	L_L-F-15	114.0100	Circular	3.1416	0.0130	2.0000	2.0000	
20	L_L-F-29	126.0170	Circular	7.0686	0.0130	3.0000	3.0000	
21	L_L-F-12	250.0000	Circular	9.6211	0.0130	3.5000	3.5000	
22	L_L-F-15A	150.0000	Circular	3.1416	0.0130	2.0000	2.0000	
23	L_L-F-31	250.0000	Circular	4.9087	0.0130	2.5000	2.5000	
24	L_L-F-13	87.2230	Circular	7.0686	0.0130	3.0000	3.0000	
25	L_L-F-32	64.7020	Circular	3.1416	0.0130	2.0000	2.0000	
26	L_L-F-14	136.9690	Circular	7.0686	0.0130	3.0000	3.0000	
27	L_L-F-33	134.0510	Circular	3.1416	0.0130	2.0000	2.0000	
28	L_L-F-3	180.3740	Circular	3.1416	0.0130	2.0000	2.0000	
29	L_L-F-OUT	44.0000	Natural	583.7265	0.0350	132.7000	12.5100	
30	L_L-MH-F2	855.0000	Natural	583.7265	0.0350	132.7000	12.5100	

Total length of all conduits .... 5568.3660 feet

Table E2 - Conduit Factor Data

Conduit Name	Number of Barrels	Entrance Loss Coef	Exit Loss Coef	Exp/Contc Coefficnt	Time Weighting Parameter	Low Flow Roughness Factor	Depth at n Changes	Which Flow Routing
L_L-F-6	2.0000	0.0000	0.0000	0.0000	0.8500	1.0000	0.0000	Standard - Dynamic Wave
L_L-F-20	2.0000	0.0000	0.0000	0.0000	0.8500	1.0000	0.0000	Standard - Dynamic Wave
L_L-F-25	2.0000	0.0000	0.0000	0.0000	0.8500	1.0000	0.0000	Standard - Dynamic Wave

If there are messages about (sqrt(g*d)*dt/dx), or the sqrt(wave celerity)*time step/conduit length in the output file all it means is that the program will lower the internal time step to satisfy this condition (explicit condition). You control the actual internal time step by using the minimum courant time step factor in the HYDRAULICS job control. The message put in words states that the smallest conduit with the fastest velocity will control the time step selection. You have further control by using the modify conduit option in the HYDRAULICS Job Control.

Conduit Name	Courant Ratio
L_L-F-6	0.91
L_L-F-5	0.05
L_L-F-7	0.03
L_L-F-20	0.04
L_L-F-4	0.11
L_L-F-8	0.08
L_L-F-18	0.03
L_L-F-25	0.09
L_L-F-2	0.05
L_L-F-9	0.08
L_L-F-17	0.07
L_L-F-26	0.11
L_L-MH-F1	0.23
L_L-F-1	0.04
L_L-F-10	0.05
L_L-F-16	0.10
L_L-F-28	0.03
L_L-F-11	0.07
L_L-F-15	0.07
L_L-F-29	0.08
L_L-F-12	0.04
L_L-F-15A	0.05
L_L-F-31	0.04
L_L-F-13	0.11
L_L-F-32	0.12
L_L-F-14	0.07
L_L-F-33	0.06
L_L-F-3	0.04
L_L-F-OUT	0.27
L_L-MH-F2	0.01

Conduit Volume

Full pipe or full open conduit volume
Input full depth volume..... 5.7263E+05 cubic feet

Table E3a - Junction Data

Inp Num	Junction Name	Ground Elevation	Crown Elevation	Invert Elevation	Qinst cfs	Initial Depth-ft	Interface Flow (%)
1	F-OUT	86.7600	86.7600	74.2490	0.0000	0.0000	100.0000
2	F-6	86.0900	81.1840	74.2770	0.0000	0.0000	100.0000
3	F-5	85.3600	85.3600	78.7640	0.0000	0.0000	100.0000
4	F-7	86.1700	86.1700	75.0450	0.0000	0.0000	100.0000
5	F-20	84.9600	84.9600	74.8470	0.0000	0.0000	100.0000
6	F-4	85.0700	85.0700	79.5000	0.0000	0.0000	100.0000
7	F-8	85.4900	85.4900	75.1950	0.0000	0.0000	100.0000
8	F-18	84.9300	84.9300	78.0920	0.0000	0.0000	100.0000
9	F-25	84.4800	84.4800	75.1200	0.0000	0.0000	100.0000
10	F-2	85.6800	85.6800	80.4890	0.0000	0.0000	100.0000
11	F-9	84.8200	84.8200	75.3450	0.0000	0.0000	100.0000
12	F-17	84.4800	84.4800	78.9500	0.0000	0.0000	100.0000
13	F-26	84.8300	84.8300	75.9480	0.0000	0.0000	100.0000
14	MH-F1	85.4900	85.4900	75.2200	0.0000	0.0000	100.0000
15	F-1	86.3500	86.3500	81.0250	0.0000	0.0000	100.0000

16	F-10	83.9200	83.9200	76.0450	0.0000	0.0000	100.0000
17	F-16	84.7900	84.7900	79.1940	0.0000	0.0000	100.0000
18	F-28	84.6600	84.6600	77.1980	0.0000	0.0000	100.0000
19	F-11	83.2200	83.2200	76.2000	0.0000	0.0000	100.0000
20	F-15	85.1800	85.1800	80.0130	0.0000	0.0000	100.0000
21	F-29	84.0300	84.0300	77.4500	0.0000	0.0000	100.0000
22	F-12	82.9700	82.9700	76.4500	0.0000	0.0000	100.0000
23	F-15A	85.7100	85.7100	80.4330	0.0000	0.0000	100.0000
24	F-31	83.9500	83.9500	78.4500	0.0000	0.0000	100.0000
25	F-13	83.2700	83.2700	77.0370	0.0000	0.0000	100.0000
26	F-32	84.1800	84.1800	79.0790	0.0000	0.0000	100.0000
27	F-14	83.7500	83.7500	77.1740	0.0000	0.0000	100.0000
28	F-33	84.6500	84.6500	79.3470	0.0000	0.0000	100.0000
29	F-3	84.3900	84.3900	78.3540	0.0000	0.0000	100.0000
30	MH-F2	86.6500	86.6500	74.1200	0.0000	0.0000	100.0000
31	SYS-F-OUT	86.5000	86.5000	73.6900	0.0000	0.0000	100.0000

Table E3b - Junction Data

Inp Num	Junction Name	X Coord.	Y Coord.	Type of Manhole	Type of Inlet	Maximum Capacity	Pavement Shape	Pavement Slope
1	F-OUT	3.074367E+06	13.87604E+06	F	Normal		0	0.0000
2	F-6	3.074360E+06	13.87603E+06		Normal		0	0.0000
3	F-5	3.074183E+06	13.87613E+06	F	Normal		0	0.0000
4	F-7	3.074663E+06	13.87584E+06	F	Normal		0	0.0000
5	F-20	3.074212E+06	13.87578E+06	F	Normal		0	0.0000
6	F-4	3.074111E+06	13.87618E+06	F	Normal		0	0.0000
7	F-8	3.074791E+06	13.87577E+06	F	Normal		0	0.0000
8	F-18	3.073925E+06	13.87596E+06	F	Normal		0	0.0000
9	F-25	3.074329E+06	13.87571E+06	F	Normal		0	0.0000
10	F-2	3.073961E+06	13.87627E+06	F	Normal		0	0.0000
11	F-9	3.074920E+06	13.87569E+06	F	Normal		0	0.0000
12	F-17	3.073816E+06	13.87602E+06	F	Normal		0	0.0000
13	F-26	3.074414E+06	13.87566E+06	F	Normal		0	0.0000
14	MH-F1	3.074334E+06	13.87566E+06	F	Normal		0	0.0000
15	F-1	3.073798E+06	13.87637E+06	F	Normal		0	0.0000
16	F-10	3.075091E+06	13.87559E+06	F	Normal		0	0.0000
17	F-16	3.073741E+06	13.87607E+06	F	Normal		0	0.0000
18	F-28	3.074734E+06	13.87547E+06	F	Normal		0	0.0000
19	F-11	3.075223E+06	13.87551E+06	F	Normal		0	0.0000
20	F-15	3.073644E+06	13.87613E+06	F	Normal		0	0.0000
21	F-29	3.074842E+06	13.87540E+06	F	Normal		0	0.0000
22	F-12	3.075437E+06	13.87538E+06	F	Normal		0	0.0000
23	F-15A	3.073515E+06	13.87621E+06	F	Normal		0	0.0000
24	F-31	3.075056E+06	13.87527E+06	F	Normal		0	0.0000
25	F-13	3.075511E+06	13.87533E+06	F	Normal		0	0.0000
26	F-32	3.075111E+06	13.87524E+06	F	Normal		0	0.0000
27	F-14	3.075629E+06	13.87526E+06	F	Normal		0	0.0000
28	F-33	3.075226E+06	13.87517E+06	F	Normal		0	0.0000
29	F-3	3.075783E+06	13.87517E+06	F	Normal		0	0.0000
30	MH-F2	3.074390E+06	13.87608E+06	F	Normal		0	0.0000
31	SYS-F-OUT	3.074782E+06	13.87683E+06	F	Normal		0	0.0000

Table E4 - Conduit Connectivity

Input Number	Conduit Name	Upstream Node	Downstream Node	Upstream Elevation	Downstream Elevation	
1	L_L-F-6	F-6	F-OUT	74.2770	74.2490	No Design
2	L_L-F-5	F-5	F-6	78.7640	78.1840	No Design
3	L_L-F-7	F-7	F-6	75.0450	74.6910	No Design
4	L_L-F-20	F-20	F-6	74.8470	74.2770	No Design
5	L_L-F-4	F-4	F-5	79.5000	79.2640	No Design
6	L_L-F-8	F-8	F-7	75.1950	75.0450	No Design
7	L_L-F-18	F-18	F-20	78.0920	77.1510	No Design
8	L_L-F-25	F-25	F-20	75.1200	74.8470	No Design
9	L_L-F-2	F-2	F-4	80.4890	80.0000	No Design
10	L_L-F-9	F-9	F-8	75.3450	75.1950	No Design
11	L_L-F-17	F-17	F-18	78.9500	78.5920	No Design
12	L_L-F-26	F-26	F-25	75.9480	75.7500	No Design
13	L_L-MH-F1	MH-F1	F-25	75.2200	75.1200	No Design
14	L_L-F-1	F-1	F-2	81.0250	80.4890	No Design
15	L_L-F-10	F-10	F-9	76.0450	75.8450	No Design
16	L_L-F-16	F-16	F-17	79.1940	78.9500	No Design
17	L_L-F-28	F-28	F-26	77.1980	76.4480	No Design
18	L_L-F-11	F-11	F-10	76.2000	76.0450	No Design
19	L_L-F-15	F-15	F-16	80.0130	79.6940	No Design
20	L_L-F-29	F-29	F-28	77.4500	77.1980	No Design
21	L_L-F-12	F-12	F-11	76.4500	76.2000	No Design
22	L_L-F-15A	F-15A	F-15	80.4330	80.0130	No Design
23	L_L-F-31	F-31	F-29	78.4500	77.9500	No Design
24	L_L-F-13	F-13	F-12	77.0370	76.9500	No Design
25	L_L-F-32	F-32	F-31	79.0790	78.9500	No Design
26	L_L-F-14	F-14	F-13	77.1740	77.0370	No Design
27	L_L-F-33	F-33	F-32	79.3470	79.0790	No Design
28	L_L-F-3	F-3	F-14	78.3540	78.1740	No Design
29	L_L-F-OUT	F-OUT	MH-F2	74.2490	74.1200	No Design
30	L_L-MH-F2	MH-F2	SYS-F-OUT	74.1200	73.6900	No Design

Storage Junction Data

STORAGE JUNCTION NUMBER OR NAME	JUNCTION TYPE	MAXIMUM OR CONSTANT SURFACE AREA (FT2)	PEAK OR CONSTANT VOLUME (CUBIC FEET)	CROWN ELEVATION (FT)	DEPTH STARTS FROM
F-4	Stage/Area	17119.0800	85267.8933	85.0700	Spill Crest
F-25	Stage/Area	17119.0800	150149.2065	84.4800	Spill Crest
F-17	Stage/Area	17119.0800	84583.1301	84.4800	Spill Crest
F-11	Stage/Area	17119.0800	110090.5593	83.2200	Spill Crest
F-29	Stage/Area	17119.0800	102558.1641	84.0300	Spill Crest
F-12	Stage/Area	17119.0800	101531.0193	82.9700	Spill Crest
F-31	Stage/Area	17119.0800	84069.5577	83.9500	Spill Crest

Variable storage data for node | F-4

Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	79.5000	0.0000	4.3560	0.0000	0.0001	0.0000
2	79.5250	0.0250	150.8265	1.5068	0.0035	0.0000
3	79.5500	0.0500	297.2970	7.0058	0.0068	0.0002
4	79.5750	0.0750	443.7675	16.2082	0.0102	0.0004
5	79.6000	0.1000	590.2380	29.0898	0.0135	0.0007
6	79.6250	0.1250	736.7085	45.6428	0.0169	0.0010
7	79.6500	0.1500	883.1790	65.8638	0.0203	0.0015
8	79.6750	0.1750	1029.6495	89.7507	0.0236	0.0021
9	79.7000	0.2000	1176.1200	117.3026	0.0270	0.0027

10	79.7250	0.2250	1475.5950	150.3783	0.0339	0.0035
11	79.7500	0.2500	1775.0700	190.9540	0.0408	0.0044
12	79.7750	0.2750	2074.5450	239.0256	0.0476	0.0055
13	79.8000	0.3000	2374.0200	294.5906	0.0545	0.0068
14	79.8250	0.3250	2673.4950	357.6475	0.0614	0.0082
15	79.8500	0.3500	2972.9700	428.1952	0.0683	0.0098
16	79.8750	0.3750	3272.4450	506.2330	0.0751	0.0116
17	79.9000	0.4000	3571.9200	591.7602	0.0820	0.0136
18	79.9125	0.4125	3773.3850	637.6626	0.0866	0.0146
19	79.9250	0.4250	3974.8500	686.0836	0.0912	0.0158
20	79.9375	0.4375	4176.3150	737.0232	0.0959	0.0169
21	79.9500	0.4500	4377.7800	790.4814	0.1005	0.0181
22	79.9625	0.4625	4579.2450	846.4581	0.1051	0.0194
23	79.9750	0.4750	4780.7100	904.9533	0.1098	0.0208
24	79.9875	0.4875	4982.1750	965.9670	0.1144	0.0222
25	80.0000	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	80.0125	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	80.0250	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	80.0375	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	80.0500	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	80.0625	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	80.0750	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	80.0875	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	80.1000	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	80.1125	0.6125	7900.6950	1761.8875	0.1814	0.0404
35	80.1250	0.6250	8265.5100	1862.9177	0.1897	0.0428
36	80.1375	0.6375	8630.3250	1968.5084	0.1981	0.0452
37	80.1500	0.6500	8995.1400	2078.6597	0.2065	0.0477
38	80.1625	0.6625	9359.9550	2193.3715	0.2149	0.0504
39	80.1750	0.6750	9724.7700	2312.6438	0.2233	0.0531
40	80.1875	0.6875	10089.5850	2436.4765	0.2316	0.0559
41	80.2000	0.7000	10454.4000	2564.8697	0.2400	0.0589
42	80.2250	0.7250	11287.4850	2836.5767	0.2591	0.0651
43	80.2500	0.7500	12120.5700	3129.1156	0.2782	0.0718
44	80.2750	0.7750	12953.6550	3442.4857	0.2974	0.0790
45	80.3000	0.8000	13786.7400	3776.6866	0.3165	0.0867
46	80.3250	0.8250	14619.8250	4131.7177	0.3356	0.0949
47	80.3500	0.8500	15452.9100	4507.5788	0.3548	0.1035
48	80.3750	0.8750	16285.9950	4904.2696	0.3739	0.1126
49	80.4000	0.9000	17119.0800	5321.7897	0.3930	0.1222
50	85.0700	5.5700	17119.0800	85267.8933	0.3930	1.9575

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| Variable storage data for node | F-25
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	75.1200	0.0000	4.3560	0.0000	0.0001	0.0000
2	75.1450	0.0250	150.8265	1.5068	0.0035	0.0000
3	75.1700	0.0500	297.2970	7.0058	0.0068	0.0002
4	75.1950	0.0750	443.7675	16.2082	0.0102	0.0004
5	75.2200	0.1000	590.2380	29.0898	0.0135	0.0007
6	75.2450	0.1250	736.7085	45.6428	0.0169	0.0010
7	75.2700	0.1500	883.1790	65.8638	0.0203	0.0015
8	75.2950	0.1750	1029.6495	89.7507	0.0236	0.0021
9	75.3200	0.2000	1176.1200	117.3026	0.0270	0.0027
10	75.3450	0.2250	1475.5950	150.3783	0.0339	0.0035
11	75.3700	0.2500	1775.0700	190.9540	0.0408	0.0044
12	75.3950	0.2750	2074.5450	239.0256	0.0476	0.0055
13	75.4200	0.3000	2374.0200	294.5906	0.0545	0.0068
14	75.4450	0.3250	2673.4950	357.6475	0.0614	0.0082
15	75.4700	0.3500	2972.9700	428.1952	0.0683	0.0098
16	75.4950	0.3750	3272.4450	506.2330	0.0751	0.0116
17	75.5200	0.4000	3571.9200	591.7602	0.0820	0.0136
18	75.5325	0.4125	3773.3850	637.6626	0.0866	0.0146
19	75.5450	0.4250	3974.8500	686.0836	0.0912	0.0158
20	75.5575	0.4375	4176.3150	737.0232	0.0959	0.0169
21	75.5700	0.4500	4377.7800	790.4814	0.1005	0.0181
22	75.5825	0.4625	4579.2450	846.4581	0.1051	0.0194
23	75.5950	0.4750	4780.7100	904.9533	0.1098	0.0208
24	75.6075	0.4875	4982.1750	965.9670	0.1144	0.0222
25	75.6200	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	75.6325	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	75.6450	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	75.6575	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	75.6700	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	75.6825	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	75.6950	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	75.7075	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	75.7200	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	75.7325	0.6125	7900.6950	1761.8875	0.1814	0.0404
35	75.7450	0.6250	8265.5100	1862.9177	0.1897	0.0428
36	75.7575	0.6375	8630.3250	1968.5084	0.1981	0.0452
37	75.7700	0.6500	8995.1400	2078.6597	0.2065	0.0477
38	75.7825	0.6625	9359.9550	2193.3715	0.2149	0.0504
39	75.7950	0.6750	9724.7700	2312.6438	0.2233	0.0531
40	75.8075	0.6875	10089.5850	2436.4765	0.2316	0.0559
41	75.8200	0.7000	10454.4000	2564.8697	0.2400	0.0589
42	75.8450	0.7250	11287.4850	2836.5767	0.2591	0.0651
43	75.8700	0.7500	12120.5700	3129.1156	0.2782	0.0718
44	75.8950	0.7750	12953.6550	3442.4857	0.2974	0.0790
45	75.9200	0.8000	13786.7400	3776.6866	0.3165	0.0867
46	75.9450	0.8250	14619.8250	4131.7177	0.3356	0.0949
47	75.9700	0.8500	15452.9100	4507.5788	0.3548	0.1035
48	75.9950	0.8750	16285.9950	4904.2696	0.3739	0.1126
49	76.0200	0.9000	17119.0800	5321.7897	0.3930	0.1222
50	84.4800	9.3600	17119.0800	150149.2065	0.3930	3.4470

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| Variable storage data for node | F-17
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	78.9500	0.0000	4.3560	0.0000	0.0001	0.0000
2	78.9750	0.0250	150.8265	1.5068	0.0035	0.0000
3	79.0000	0.0500	297.2970	7.0058	0.0068	0.0002
4	79.0250	0.0750	443.7675	16.2082	0.0102	0.0004
5	79.0500	0.1000	590.2380	29.0898	0.0135	0.0007
6	79.0750	0.1250	736.7085	45.6428	0.0169	0.0010
7	79.1000	0.1500	883.1790	65.8638	0.0203	0.0015
8	79.1250	0.1750	1029.6495	89.7507	0.0236	0.0021
9	79.1500	0.2000	1176.1200	117.3026	0.0270	0.0027
10	79.1750	0.2250	1475.5950	150.3783	0.0339	0.0035
11	79.2000	0.2500	1775.0700	190.9540	0.0408	0.0044
12	79.2250	0.2750	2074.5450	239.0256	0.0476	0.0055
13	79.2500	0.3000	2374.0200	294.5906	0.0545	0.0068
14	79.2750	0.3250	2673.4950	357.6475	0.0614	0.0082
15	79.3000	0.3500	2972.9700	428.1952	0.0683	0.0098
16	79.3250	0.3750	3272.4450	506.2330	0.0751	0.0116
17	79.3500	0.4000	3571.9200	591.7602	0.0820	0.0136
18	79.3625	0.4125	3773.3850	637.6626	0.0866	0.0146
19	79.3750	0.4250	3974.8500	686.0836	0.0912	0.0158
20	79.3875	0.4375	4176.3150	737.0232	0.0959	0.0169
21	79.4000	0.4500	4377.7800	790.4814	0.1005	0.0181
22	79.4125	0.4625	4579.2450	846.4581	0.1051	0.0194
23	79.4250	0.4750	4780.7100	904.9533	0.1098	0.0208

24	79.4375	0.4875	4982.1750	965.9670	0.1144	0.0222
25	79.4500	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	79.4625	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	79.4750	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	79.4875	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	79.5000	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	79.5125	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	79.5250	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	79.5375	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	79.5500	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	79.5625	0.6125	7900.6950	1761.8875	0.1814	0.0404
35	79.5750	0.6250	8265.5100	1862.9177	0.1897	0.0428
36	79.5875	0.6375	8630.3250	1968.5084	0.1981	0.0452
37	79.6000	0.6500	8995.1400	2078.6597	0.2065	0.0477
38	79.6125	0.6625	9359.9550	2193.3715	0.2149	0.0504
39	79.6250	0.6750	9724.7700	2312.6438	0.2233	0.0531
40	79.6375	0.6875	10089.5850	2436.4765	0.2316	0.0559
41	79.6500	0.7000	10454.4000	2564.8697	0.2400	0.0589
42	79.6750	0.7250	11287.4850	2836.5767	0.2591	0.0651
43	79.7000	0.7500	12120.5700	3129.1156	0.2782	0.0718
44	79.7250	0.7750	12953.6550	3442.4857	0.2974	0.0790
45	79.7500	0.8000	13786.7400	3776.6866	0.3165	0.0867
46	79.7750	0.8250	14619.8250	4131.7177	0.3356	0.0949
47	79.8000	0.8500	15452.9100	4507.5788	0.3548	0.1035
48	79.8250	0.8750	16285.9950	4904.2696	0.3739	0.1126
49	79.8500	0.9000	17119.0800	5321.7897	0.3930	0.1222
50	84.4800	5.5300	17119.0800	84583.1301	0.3930	1.9418

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| Variable storage data for node | F-11
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	76.2000	0.0000	4.3560	0.0000	0.0001	0.0000
2	76.2250	0.0250	150.8265	1.5068	0.0035	0.0000
3	76.2500	0.0500	297.2970	7.0058	0.0068	0.0002
4	76.2750	0.0750	443.7675	16.2082	0.0102	0.0004
5	76.3000	0.1000	590.2380	29.0898	0.0135	0.0007
6	76.3250	0.1250	736.7085	45.6428	0.0169	0.0010
7	76.3500	0.1500	883.1790	65.8638	0.0203	0.0015
8	76.3750	0.1750	1029.6495	89.7507	0.0236	0.0021
9	76.4000	0.2000	1176.1200	117.3026	0.0270	0.0027
10	76.4250	0.2250	1475.5950	150.3783	0.0339	0.0035
11	76.4500	0.2500	1775.0700	190.9540	0.0408	0.0044
12	76.4750	0.2750	2074.5450	239.0256	0.0476	0.0055
13	76.5000	0.3000	2374.0200	294.5906	0.0545	0.0068
14	76.5250	0.3250	2673.4950	357.6475	0.0614	0.0082
15	76.5500	0.3500	2972.9700	428.1952	0.0683	0.0098
16	76.5750	0.3750	3272.4450	506.2330	0.0751	0.0116
17	76.6000	0.4000	3571.9200	591.7602	0.0820	0.0136
18	76.6125	0.4125	3773.3850	637.6626	0.0866	0.0146
19	76.6250	0.4250	3974.8500	686.0836	0.0912	0.0158
20	76.6375	0.4375	4176.3150	737.0232	0.0959	0.0169
21	76.6500	0.4500	4377.7800	790.4814	0.1005	0.0181
22	76.6625	0.4625	4579.2450	846.4581	0.1051	0.0194
23	76.6750	0.4750	4780.7100	904.9533	0.1098	0.0208
24	76.6875	0.4875	4982.1750	965.9670	0.1144	0.0222
25	76.7000	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	76.7125	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	76.7250	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	76.7375	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	76.7500	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	76.7625	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	76.7750	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	76.7875	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	76.8000	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	76.8125	0.6125	7900.6950	1761.8875	0.1814	0.0404
35	76.8250	0.6250	8265.5100	1862.9177	0.1897	0.0428
36	76.8375	0.6375	8630.3250	1968.5084	0.1981	0.0452
37	76.8500	0.6500	8995.1400	2078.6597	0.2065	0.0477
38	76.8625	0.6625	9359.9550	2193.3715	0.2149	0.0504
39	76.8750	0.6750	9724.7700	2312.6438	0.2233	0.0531
40	76.8875	0.6875	10089.5850	2436.4765	0.2316	0.0559
41	76.9000	0.7000	10454.4000	2564.8697	0.2400	0.0589
42	76.9250	0.7250	11287.4850	2836.5767	0.2591	0.0651
43	76.9500	0.7500	12120.5700	3129.1156	0.2782	0.0718
44	76.9750	0.7750	12953.6550	3442.4857	0.2974	0.0790
45	77.0000	0.8000	13786.7400	3776.6866	0.3165	0.0867
46	77.0250	0.8250	14619.8250	4131.7177	0.3356	0.0949
47	77.0500	0.8500	15452.9100	4507.5788	0.3548	0.1035
48	77.0750	0.8750	16285.9950	4904.2696	0.3739	0.1126
49	77.1000	0.9000	17119.0800	5321.7897	0.3930	0.1222
50	83.2200	7.0200	17119.0800	110090.5593	0.3930	2.5273

==================================
| Variable storage data for node | F-29
==================================

Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	77.4500	0.0000	4.3560	0.0000	0.0001	0.0000
2	77.4750	0.0250	150.8265	1.5068	0.0035	0.0000
3	77.5000	0.0500	297.2970	7.0058	0.0068	0.0002
4	77.5250	0.0750	443.7675	16.2082	0.0102	0.0004
5	77.5500	0.1000	590.2380	29.0898	0.0135	0.0007
6	77.5750	0.1250	736.7085	45.6428	0.0169	0.0010
7	77.6000	0.1500	883.1790	65.8638	0.0203	0.0015
8	77.6250	0.1750	1029.6495	89.7507	0.0236	0.0021
9	77.6500	0.2000	1176.1200	117.3026	0.0270	0.0027
10	77.6750	0.2250	1475.5950	150.3783	0.0339	0.0035
11	77.7000	0.2500	1775.0700	190.9540	0.0408	0.0044
12	77.7250	0.2750	2074.5450	239.0256	0.0476	0.0055
13	77.7500	0.3000	2374.0200	294.5906	0.0545	0.0068
14	77.7750	0.3250	2673.4950	357.6475	0.0614	0.0082
15	77.8000	0.3500	2972.9700	428.1952	0.0683	0.0098
16	77.8250	0.3750	3272.4450	506.2330	0.0751	0.0116
17	77.8500	0.4000	3571.9200	591.7602	0.0820	0.0136
18	77.8625	0.4125	3773.3850	637.6626	0.0866	0.0146
19	77.8750	0.4250	3974.8500	686.0836	0.0912	0.0158
20	77.8875	0.4375	4176.3150	737.0232	0.0959	0.0169
21	77.9000	0.4500	4377.7800	790.4814	0.1005	0.0181
22	77.9125	0.4625	4579.2450	846.4581	0.1051	0.0194
23	77.9250	0.4750	4780.7100	904.9533	0.1098	0.0208
24	77.9375	0.4875	4982.1750	965.9670	0.1144	0.0222
25	77.9500	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	77.9625	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	77.9750	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	77.9875	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	78.0000	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	78.0125	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	78.0250	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	78.0375	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	78.0500	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	78.0625	0.6125	7900.6950	1761.8875	0.1814	0.0404
35	78.0750	0.6250	8265.5100	1862.9177	0.1897	0.0428
36	78.0875	0.6375	8630.3250	1968.5084	0.1981	0.0452
37	78.1000	0.6500	8995.1400	2078.6597	0.2065	0.0477

38	78.1125	0.6625	9359.9550	2193.3715	0.2149	0.0504
39	78.1250	0.6750	9724.7700	2312.6438	0.2233	0.0531
40	78.1375	0.6875	10089.5850	2436.4765	0.2316	0.0559
41	78.1500	0.7000	10454.4000	2564.8697	0.2400	0.0589
42	78.1750	0.7250	11287.4850	2836.5767	0.2591	0.0651
43	78.2000	0.7500	12120.5700	3129.1156	0.2782	0.0718
44	78.2250	0.7750	12953.6550	3442.4857	0.2974	0.0790
45	78.2500	0.8000	13786.7400	3776.6866	0.3165	0.0867
46	78.2750	0.8250	14619.8250	4131.7177	0.3356	0.0949
47	78.3000	0.8500	15452.9100	4507.5788	0.3548	0.1035
48	78.3250	0.8750	16285.9950	4904.2696	0.3739	0.1126
49	78.3500	0.9000	17119.0800	5321.7897	0.3930	0.1222
50	84.0300	6.5800	17119.0800	102558.1641	0.3930	2.3544

==================================
| Variable storage data for node | F-12
==================================

Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	76.4500	0.0000	4.3560	0.0000	0.0001	0.0000
2	76.4750	0.0250	150.8265	1.5068	0.0035	0.0000
3	76.5000	0.0500	297.2970	7.0058	0.0068	0.0002
4	76.5250	0.0750	443.7675	16.2082	0.0102	0.0004
5	76.5500	0.1000	590.2380	29.0898	0.0135	0.0007
6	76.5750	0.1250	736.7085	45.6428	0.0169	0.0010
7	76.6000	0.1500	883.1790	65.8638	0.0203	0.0015
8	76.6250	0.1750	1029.6495	89.7507	0.0236	0.0021
9	76.6500	0.2000	1176.1200	117.3026	0.0270	0.0027
10	76.6750	0.2250	1475.5950	150.3783	0.0339	0.0035
11	76.7000	0.2500	1775.0700	190.9540	0.0408	0.0044
12	76.7250	0.2750	2074.5450	239.0256	0.0476	0.0055
13	76.7500	0.3000	2374.0200	294.5906	0.0545	0.0068
14	76.7750	0.3250	2673.4950	357.6475	0.0614	0.0082
15	76.8000	0.3500	2972.9700	428.1952	0.0683	0.0098
16	76.8250	0.3750	3272.4450	506.2330	0.0751	0.0116
17	76.8500	0.4000	3571.9200	591.7602	0.0820	0.0136
18	76.8625	0.4125	3773.3850	637.6626	0.0866	0.0146
19	76.8750	0.4250	3974.8500	686.0836	0.0912	0.0158
20	76.8875	0.4375	4176.3150	737.0232	0.0959	0.0169
21	76.9000	0.4500	4377.7800	790.4814	0.1005	0.0181
22	76.9125	0.4625	4579.2450	846.4581	0.1051	0.0194
23	76.9250	0.4750	4780.7100	904.9533	0.1098	0.0208
24	76.9375	0.4875	4982.1750	965.9670	0.1144	0.0222
25	76.9500	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	76.9625	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	76.9750	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	76.9875	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	77.0000	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	77.0125	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	77.0250	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	77.0375	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	77.0500	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	77.0625	0.6125	7900.6950	1761.8875	0.1814	0.0404
35	77.0750	0.6250	8265.5100	1862.9177	0.1897	0.0428
36	77.0875	0.6375	8630.3250	1968.5084	0.1981	0.0452
37	77.1000	0.6500	8995.1400	2078.6597	0.2065	0.0477
38	77.1125	0.6625	9359.9550	2193.3715	0.2149	0.0504
39	77.1250	0.6750	9724.7700	2312.6438	0.2233	0.0531
40	77.1375	0.6875	10089.5850	2436.4765	0.2316	0.0559
41	77.1500	0.7000	10454.4000	2564.8697	0.2400	0.0589
42	77.1750	0.7250	11287.4850	2836.5767	0.2591	0.0651
43	77.2000	0.7500	12120.5700	3129.1156	0.2782	0.0718
44	77.2250	0.7750	12953.6550	3442.4857	0.2974	0.0790
45	77.2500	0.8000	13786.7400	3776.6866	0.3165	0.0867
46	77.2750	0.8250	14619.8250	4131.7177	0.3356	0.0949
47	77.3000	0.8500	15452.9100	4507.5788	0.3548	0.1035
48	77.3250	0.8750	16285.9950	4904.2696	0.3739	0.1126
49	77.3500	0.9000	17119.0800	5321.7897	0.3930	0.1222
50	82.9700	6.5200	17119.0800	101531.0193	0.3930	2.3308

==================================
| Variable storage data for node | F-31
==================================

Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	78.4500	0.0000	4.3560	0.0000	0.0001	0.0000
2	78.4750	0.0250	150.8265	1.5068	0.0035	0.0000
3	78.5000	0.0500	297.2970	7.0058	0.0068	0.0002
4	78.5250	0.0750	443.7675	16.2082	0.0102	0.0004
5	78.5500	0.1000	590.2380	29.0898	0.0135	0.0007
6	78.5750	0.1250	736.7085	45.6428	0.0169	0.0010
7	78.6000	0.1500	883.1790	65.8638	0.0203	0.0015
8	78.6250	0.1750	1029.6495	89.7507	0.0236	0.0021
9	78.6500	0.2000	1176.1200	117.3026	0.0270	0.0027
10	78.6750	0.2250	1475.5950	150.3783	0.0339	0.0035
11	78.7000	0.2500	1775.0700	190.9540	0.0408	0.0044
12	78.7250	0.2750	2074.5450	239.0256	0.0476	0.0055
13	78.7500	0.3000	2374.0200	294.5906	0.0545	0.0068
14	78.7750	0.3250	2673.4950	357.6475	0.0614	0.0082
15	78.8000	0.3500	2972.9700	428.1952	0.0683	0.0098
16	78.8250	0.3750	3272.4450	506.2330	0.0751	0.0116
17	78.8500	0.4000	3571.9200	591.7602	0.0820	0.0136
18	78.8625	0.4125	3773.3850	637.6626	0.0866	0.0146
19	78.8750	0.4250	3974.8500	686.0836	0.0912	0.0158
20	78.8875	0.4375	4176.3150	737.0232	0.0959	0.0169
21	78.9000	0.4500	4377.7800	790.4814	0.1005	0.0181
22	78.9125	0.4625	4579.2450	846.4581	0.1051	0.0194
23	78.9250	0.4750	4780.7100	904.9533	0.1098	0.0208
24	78.9375	0.4875	4982.1750	965.9670	0.1144	0.0222
25	78.9500	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	78.9625	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	78.9750	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	78.9875	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	79.0000	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	79.0125	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	79.0250	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	79.0375	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	79.0500	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	79.0625	0.6125	7900.6950	1761.8875	0.1814	0.0404
35	79.0750	0.6250	8265.5100	1862.9177	0.1897	0.0428
36	79.0875	0.6375	8630.3250	1968.5084	0.1981	0.0452
37	79.1000	0.6500	8995.1400	2078.6597	0.2065	0.0477
38	79.1125	0.6625	9359.9550	2193.3715	0.2149	0.0504
39	79.1250	0.6750	9724.7700	2312.6438	0.2233	0.0531
40	79.1375	0.6875	10089.5850	2436.4765	0.2316	0.0559
41	79.1500	0.7000	10454.4000	2564.8697	0.2400	0.0589
42	79.1750	0.7250	11287.4850	2836.5767	0.2591	0.0651
43	79.2000	0.7500	12120.5700	3129.1156	0.2782	0.0718
44	79.2250	0.7750	12953.6550	3442.4857	0.2974	0.0790
45	79.2500	0.8000	13786.7400	3776.6866	0.3165	0.0867
46	79.2750	0.8250	14619.8250	4131.7177	0.3356	0.0949
47	79.3000	0.8500	15452.9100	4507.5788	0.3548	0.1035
48	79.3250	0.8750	16285.9950	4904.2696	0.3739	0.1126
49	79.3500	0.9000	17119.0800	5321.7897	0.3930	0.1222
50	83.9500	5.5000	17119.0800	84069.5577	0.3930	1.9300

```
*================================================*
|          FREE OUTFALL DATA (DATA GROUP I1)     |
|       BOUNDARY CONDITION ON DATA GROUP J1      |
*================================================*

Outfall at Junction....SYS-F-OUT        has boundary condition number...         1


*================================================*
|        INTERNAL CONNECTIVITY INFORMATION       |
*================================================*

         CONDUIT         JUNCTION         JUNCTION
---------------- ---------------- ----------------
        FREE # 1        SYS-F-OUT         BOUNDARY

*================================================*
|         Boundary Condition Information         |
|                Data Groups J1-J4               |
*================================================*



*================================================*
|             XP Note Field Summary              |
*================================================*


*====================================================*
|        Table E9 - JUNCTION SUMMARY STATISTICS       |
| The Maximum area is only the area of the node, it  |
| does not include the area of the surrounding conduits|
*====================================================*

                          Uppermost   Maximum     Time        Feet of             Maximum   Maximum   Maximum   Maximum
                Ground PipeCrown  Junction      of       Surcharge  Freeboard Junction    Gutter    Gutter    Gutter
Junction      Elevation Elevation Elevation    Occurence     at Max  of node      Area     Depth     Width  Velocity
   Name            feet      feet      feet   Hr. Min.   Elevation      feet      ft^2      feet      feet      ft/s
-------------  --------- -------- --------- ---------  --------- --------- --------- --------- --------- ---------
         F-OUT     86.7600  86.7590  85.3861     26   19    0.0000    1.3739   12.5660    0.0000    0.0000    0.0000
           F-6     86.0900  81.1840  85.3873     26   19    4.2033    0.7027   12.5660    0.0000    0.0000    0.0000
           F-5     85.3600  81.7640  85.4124     26   27    3.6484    0.0000 5268.9903    0.0000    0.0000    0.0000
           F-7     86.1700  79.0450  85.3750     26   19    6.3300    0.7950   12.5660    0.0000    0.0000    0.0000
          F-20     84.9600  80.1510  85.4634     18    3    5.3124    0.0000 8271.3873    0.0000    0.0000    0.0000
           F-4     85.0700  82.0000  85.4141     26   29    3.4141    0.0000 2901.6946    0.0000    0.0000    0.0000
           F-8     85.4900  79.1950  85.3698     26   19    6.1748    0.1202   12.5660    0.0000    0.0000    0.0000
          F-18     84.9300  81.0920  85.5526     18   12    4.4606    0.0000 9318.7282    0.0000    0.0000    0.0000
          F-25     84.4800  80.1200  85.5888     18    3    5.4688    0.0000 17119.080    0.0000    0.0000    0.0000
           F-2     85.6800  82.4890  85.4268     26   19    2.9378    0.2532   12.5660    0.0000    0.0000    0.0000
           F-9     84.8200  79.3450  85.3687     26   28    6.0237    0.0000 8655.1778    0.0000    0.0000    0.0000
          F-17     84.4800  81.4500  85.5561     18   13    4.1061    0.0000 17119.080    0.0000    0.0000    0.0000
          F-26     84.8300  79.4480  85.5929     18    3    6.1449    0.0000 10722.545    0.0000    0.0000    0.0000
         MH-F1     85.4900  79.2200  89.3843     17   23   10.1643    0.0000 245619.76    0.0000    0.0000    0.0000
           F-1     86.3500  83.0250  85.5077     27   56    2.4827    0.8423   12.5660    0.0000    0.0000    0.0000
          F-10     83.9200  79.5450  85.3603     26   15    5.8153    0.0000 21109.257    0.0000    0.0000    0.0000
          F-16     84.7900  81.6940  85.5564     18   12    3.8624    0.0000 10760.170    0.0000    0.0000    0.0000
          F-28     84.6600  80.1980  85.6094     18   11    5.4114    0.0000 12920.365    0.0000    0.0000    0.0000
          F-11     83.2200  79.7000  85.3672     26   24    5.6672    0.0000 17119.080    0.0000    0.0000    0.0000
          F-15     85.1800  82.0130  85.5582     18   10    3.5452    0.0000 7298.1314    0.0000    0.0000    0.0000
          F-29     84.0300  80.4500  85.6147     18    8    5.1647    0.0000 17119.080    0.0000    0.0000    0.0000
          F-12     82.9700  79.9500  85.3604     26   11    5.4104    0.0000 17119.080    0.0000    0.0000    0.0000
         F-15A     85.7100  82.4330  85.5541     21   22    3.2211    0.0559   12.5660    0.0000    0.0000    0.0000
          F-31     83.9500  80.9500  85.6297     18   11    4.6797    0.0000 17119.080    0.0000    0.0000    0.0000
          F-13     83.2700  80.0370  85.3604     26   20    5.3234    0.0000 40440.651    0.0000    0.0000    0.0000
          F-32     84.1800  81.0790  85.6373     18   13    4.5583    0.0000 21471.221    0.0000    0.0000    0.0000
          F-14     83.7500  80.1740  85.3601     26   16    5.1861    0.0000 25017.771    0.0000    0.0000    0.0000
          F-33     84.6500  81.3470  85.6511     18   16    4.3041    0.0000 13606.504    0.0000    0.0000    0.0000
           F-3     84.3900  80.3540  85.3593     26   19    5.0053    0.0000 13180.453    0.0000    0.0000    0.0000
         MH-F2     86.6500  86.6300  85.3852     26   19    0.0000    1.2648   12.5660    0.0000    0.0000    0.0000
     SYS-F-OUT     86.5000  86.2000  85.3500     25   59    0.0000    1.1500   12.5660    0.0000    0.0000    0.0000

*====================================================*
|        Table E10 - CONDUIT SUMMARY STATISTICS       |
| Note: The peak flow may be less than the design flow |
| and the conduit may still surcharge because of the   |
| downstream boundary conditions.                      |
|                                                      |
| * denotes an open conduit that has been overtopped   |
|   this is a potential source of severe errors        |
*====================================================*

                    Conduit  Maximum  Maximum    Time      Maximum    Time   Ratio of    Maximum Water      Ratio
                 Design   Design Vertical Computed    of     Computed    of    Max. to  Elev at Pipe Ends    d/D
       Conduit     Flow Velocity    Depth     Flow  Occurence Velocity Occurence  Design  Upstream  Dwnstrm   US   DS
          Name    (cfs)   (ft/s)     (in)    (cfs)  Hr. Min.  (ft/s)  Hr. Min.    Flow    (ft)     (ft)
-------------- ------- -------- --------- -------- ---------- ------- --------- ------- -------- -------- ----- -----
       L_L-F-6 272.4372   6.8109  60.0000 300.7314    16   15   7.4980    16   15  1.1039  85.3873  85.3861 2.222 2.227
       L_L-F-5  35.2999   4.9939  36.0000  25.8903    16   15   3.7795    15   45  0.7334  85.4124  85.3873 2.216 2.401
       L_L-F-7  45.4323   3.6154  48.0000  48.3328    16   15   3.8263    16   15  1.0638  85.3750  85.3873 2.582 2.674
      L_L-F-20 272.4618   6.8115  60.0000 260.3408    16   16   6.4909    16   16  0.9555  85.4634  85.3873 2.123 2.222
       L_L-F-4  21.6924   4.4191  30.0000  19.3561    16   15   5.2236    15   51  0.8923  85.4140  85.4124 2.366 2.459
       L_L-F-8  45.4240   3.6147  48.0000  43.4524    16   15   3.4399    16   15  0.9566  85.3698  85.3750 2.544 2.582
      L_L-F-18  35.3006   4.9940  36.0000  47.8046    16   15   6.7244    16   15  1.3542  85.5526  85.4634 2.487 2.771
      L_L-F-25 272.6261   6.8157  60.0000 234.3381    16   18   5.8421    16   18  0.8596  85.5888  85.4634 2.094 2.123
       L_L-F-2  11.9680   3.8095  24.0000  10.6756    16   15   4.6034    15   56  0.8920  85.4268  85.4141 2.469 2.707
       L_L-F-9  45.4240   3.6147  48.0000  38.4055    16   15   3.0405    16   15  0.8455  85.3687  85.3698 2.506 2.544
      L_L-F-17  21.7189   4.4245  30.0000  21.4962    16   15   4.3455    16   15  0.9897  85.5561  85.5526 2.642 2.784
      L_L-F-26  44.9609   4.6731  42.0000  37.1497    16   15   3.8378    16   15  0.8263  85.5929  85.5888 2.756 2.811
     L_L-MH-F1  64.2714   5.1146  48.0000 426.6678    16   58  33.5635    16   20  6.6385  89.3843  85.5888 3.541 2.617
       L_L-F-1  11.9758   3.8120  24.0000   4.3919    16   14   2.2213    15   59  0.3667  85.5077  85.4268 2.241 2.469
      L_L-F-10  31.8156   3.3068  42.0000  26.9510    16   15   2.7850    16   15  0.8471  85.3603  85.3687 2.662 2.721
      L_L-F-16  21.7213   4.4250  30.0000  14.1575    16   15   2.8625    16   15  0.6518  85.5564  85.5561 2.545 2.642
      L_L-F-28  29.8349   4.2208  36.0000  30.5732    16   15   4.2947    16   15  1.0247  85.6094  85.5929 2.804 3.048
      L_L-F-11  31.8480   3.3102  42.0000  24.9425    16   15   2.5778    16   15  0.7832  85.3672  85.3603 2.619 2.662
      L_L-F-15  11.9664   3.8090  24.0000  10.2005    16   15   3.6697    15   40  0.8524  85.5582  85.5564 2.773 2.931
      L_L-F-29  29.8264   4.2196  36.0000  18.3616    16   15   2.5797    16   15  0.6156  85.6147  85.6094 2.722 2.804
      L_L-F-12  31.8156   3.3068  42.0000  21.7598    16   15   2.2493    16   15  0.6839  85.3604  85.3672 2.546 2.619
     L_L-F-15A  11.9706   3.8104  24.0000   5.0520    16   15   2.2411    15   42  0.4220  85.6541  85.5582 2.611 2.773
      L_L-F-31  18.3434   3.7369  30.0000  14.4501    16   15   2.9207    16   15  0.7878  85.6297  85.6147 2.872 3.066
      L_L-F-13  21.0649   2.9801  36.0000  24.1193    31   19   3.3879    31   19  1.1450  85.3604  85.3604 2.774 2.803
      L_L-F-32  10.1012   3.2153  24.0000  10.9978    16   15   3.7740    15   37  1.0888  85.6373  85.6297 3.279 3.340
      L_L-F-14  21.0943   2.9842  36.0000  28.6859    31    8   4.0285    31    8  1.3599  85.3601  85.3604 2.729 2.774
      L_L-F-33  10.1151   3.2197  24.0000  12.5505    30   14   3.9536    30   14  1.2408  85.6511  85.6373 3.152 3.279
       L_L-F-3   7.1464   2.2748  24.0000  19.1627    31   16   6.0331    31   16  2.6815  85.3593  85.3601 3.503 3.593
     L_L-F-OUT 3520.554   6.0312 150.1200 599.8932    16   15   3.2454    16    0  0.1704  85.3861  85.3852 0.890 0.900
     L_L-MH-F2 1458.121   2.4980 150.1200 567.0246    16   16   3.2489    15   59  0.3889  85.3852  85.3500 0.900 0.932
      FREE # 1  Undefnd  Undefnd  Undefn  567.0246    16   16


 *====================================================*
 | Table E14 - Natural Channel Overbank Flow Information  |
 *====================================================*

             <---- Maximum Velocity -----> <------ Maximum Flow -------> <------  Maximum Area ------> <--- Max. Storage Volume --->
       Conduit      Left    Center     Right      Left    Center     Right      Left    Center     Right      Left    Center     Right   Maximum
          Name  Velocity  Velocity  Velocity      Flow      Flow      Flow      Area      Area      Area      Area      Area      Area     Depth
-------------- --------- --------- --------- --------- --------- --------- --------- --------- --------- --------- --------- --------- ---------
```

L_L-F-OUT	0.0000	1.4656	0.1531	0.0000	597.7148	2.1784	0.0000	407.8236	14.2298	0.0000	17944.238	626.1100	11.1947	
L_L-MH-F2	0.0000	1.3165	0.2216	0.0000	560.3411	6.6835	0.0000	425.6258	30.1536	0.0000	363910.07	25781.323	11.4801	

Table E14a - Natural Channel Encroachment Information

Conduit Name	<------- Existing Conveyance Condition -------> Left Bank	Centre Channel	Right Bank	Total	Left Station	Right Station	<----- Encroachment Conveyance Condition -----> Left Bank	Centre Channel	Right Bank	Total	Left Station	Right Station	<- % Volume --> Reduction Left	Reduction Right	<-- Encroachment Data --> Depth Incr.	Method
L_L-F-OUT	0.0000	57998.5	211.38	58209.9	114.92	232.70	0.0000	57998.5	211.38	58209.9	114.92	232.70	0.0000	0.0000	0.0000	None
L_L-MH-F2	0.0000	61746.8	736.48	62483.3	114.11	232.70	0.0000	61746.8	736.48	62483.3	114.11	232.70	0.0000	0.0000	0.0000	None

Table E14b - Floodplain Mapping

Conduit Name	Upstream WS Elev.	Downstream WS Elev.	Channel Length	Center Station	<----- Left Offsets Natural	Encroach	Bank	<----- Right Offsets Natural	Encroach	Bank	<- Channel Widths-> Total	Encroach.
L_L-F-OUT	85.3861	85.3852	44.0000	150.8200	35.8955	35.8955	37.4500	81.8800	81.8800	26.0800	117.7755	117.7755
L_L-MH-F2	85.3852	85.3500	855.0000	150.8200	36.7091	36.7091	37.4500	81.8800	81.8800	26.0800	118.5891	118.5891

Table E15 - SPREADSHEET INFO LIST

Conduit Flow and Junction Depth Information for use in spreadsheets. The maximum values in this table are the true maximum values because they sample every time step. The values in the review results may only be the maximum of a subset of all the time steps in the run. Note: These flows are only the flows in a single barrel.

Conduit Name	Maximum Flow (cfs)	Total Flow (ft^3)	Maximum Velocity (ft/s)	Maximum Volume (ft^3)	##	Junction Name	Invert Elevation (ft)	Maximum Elevation (ft)
L_L-F-6	300.7314	8122863.489	7.4980	1118.1335	##	F-OUT	74.2490	85.3861
L_L-F-5	25.8903	128371.9834	3.7795	1530.6011	##	F-6	74.2770	85.3873
L_L-F-7	48.3328	283495.4911	3.8263	4661.7511	##	F-5	78.7640	85.4124
L_L-F-20	260.3408	7679642.360	6.4909	21753.2102	##	F-7	75.0450	85.3750
L_L-F-4	19.3561	94585.3921	5.2236	434.2047	##	F-20	74.8470	85.4634
L_L-F-8	43.4524	260056.9575	3.4399	1976.0439	##	F-4	79.5000	85.4141
L_L-F-18	47.8046	398816.3403	6.7244	2489.2693	##	F-8	75.1950	85.3698
L_L-F-25	234.3381	7255205.358	5.8421	10682.2682	##	F-18	78.0920	85.5526
L_L-F-2	10.6756	52554.2494	4.6034	574.2764	##	F-25	75.1200	85.5888
L_L-F-9	38.4055	235739.5796	3.0405	1976.0438	##	F-2	80.4890	85.4268
L_L-F-17	21.4962	102476.7644	4.3455	657.0603	##	F-9	75.3450	85.3687
L_L-F-26	37.1497	236222.3304	3.8378	999.9922	##	F-17	78.9500	85.5561
L_L-MH-F1	426.6678	6986895.489	33.5635	658.0226	##	F-26	75.9480	85.5929
L_L-F-1	4.3919	21749.4585	2.2213	620.2273	##	MH-F1	75.2200	89.3843
L_L-F-10	26.9510	167874.1418	2.7850	2017.2115	##	F-1	81.0250	85.5077
L_L-F-16	14.1575	67663.6929	2.8625	447.7283	##	F-10	76.0450	85.3603
L_L-F-28	30.5732	201430.4405	4.2947	2745.5054	##	F-16	79.1940	85.5564
L_L-F-11	24.9425	154680.8445	2.5778	1560.1617	##	F-28	77.1980	85.6094
L_L-F-15	10.2005	49063.1681	3.6697	375.2312	##	F-11	76.2000	85.3672
L_L-F-29	18.3616	124829.9885	2.5797	933.8067	##	F-15	80.0130	85.5582
L_L-F-12	21.7598	138472.8708	2.2493	2521.5144	##	F-29	77.4500	85.6147
L_L-F-15A	5.0520	24194.7167	2.2411	490.6435	##	F-12	76.4500	85.3604
L_L-F-31	14.4501	105990.7945	2.9207	1279.9678	##	F-15A	80.4330	85.6541
L_L-F-13	24.1193	121843.5272	3.3879	646.3368	##	F-31	78.4500	85.6297
L_L-F-32	10.9978	88598.2387	3.7740	213.0900	##	F-13	77.0370	85.3604
L_L-F-14	28.6859	110848.2225	4.0285	1014.9628	##	F-32	79.0790	85.6373
L_L-F-33	12.5505	79843.6885	3.9536	441.4844	##	F-14	77.1740	85.3601
L_L-F-3	19.1627	39635.7249	6.0331	594.0449	##	F-33	79.3470	85.6511
L_L-F-OUT	599.8932	8121828.241	3.2454	18570.3480	##	F-3	78.3540	85.3593
L_L-MH-F2	567.0246	8097525.555	3.2489	389691.3904	##	MH-F2	74.1200	85.3852
FREE # 1	567.0246	8097628.554	0.0000	0.0000	##	SYS-F-OUT	73.6900	85.3500

Table E15a - SPREADSHEET REACH LIST

Peak flow and Total Flow listed by Reach or those conduits or diversions having the same upstream and downstream nodes.

Upstream Node	Downstream Node	Maximum Flow (cfs)	Total Flow (ft^3)
F-6	F-OUT	601.4628	8122863.49
F-5	F-6	25.8903	128371.983
F-7	F-6	48.3328	283495.491
F-20	F-6	520.6817	7679642.36

F-4	F-5	19.3561	94585.3921
F-8	F-7	43.4524	260056.957
F-18	F-20	47.8046	398816.340
F-25	F-20	468.6762	7255205.36
F-2	F-4	10.6756	52554.2494
F-9	F-8	38.4055	235739.580
F-17	F-18	21.4962	102476.764
F-26	F-25	37.1497	236222.330
MH-F1	F-25	426.6678	6986895.49
F-1	F-2	4.3919	21749.4585
F-10	F-9	26.9510	167874.142
F-16	F-17	14.1575	67663.6929
F-28	F-26	30.5732	201430.440
F-11	F-10	24.9425	154680.845
F-15	F-16	10.2005	49063.1681
F-29	F-28	18.3616	124829.988
F-12	F-11	21.7598	138472.871
F-15A	F-15	5.0520	24194.7167
F-31	F-29	14.4501	105990.794
F-13	F-12	24.1193	121843.527
F-32	F-31	10.9978	88598.2387
F-14	F-13	28.6859	110848.223
F-33	F-32	12.5505	79843.6885
F-3	F-14	19.1627	39635.7249
F-OUT	MH-F2	599.8932	8121828.24
MH-F2	SYS-F-OUT	567.0246	8097525.56

Table E19 - Junction Inflow & Outflow Listing
Units are either ft^3 or m^3 depending on the units in your model.

Junction Name	Constant Inflow to Node	User Inflow to Node	Interface Inflow to Node	DWF Inlow to Node	Inflow through Outfall	RNF Layer Inflow to Node	Outflow from Node	Evaporation from Node	Inflow from 2D Layer
F-6	0.0000	33948.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
F-5	0.0000	33543.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
F-7	0.0000	23589.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
F-20	0.0000	26559.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
F-4	0.0000	42066.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
F-8	0.0000	24354.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
F-18	0.0000	297009.1300	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
F-25	0.0000	38241.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
F-2	0.0000	31050.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
F-9	0.0000	67914.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
F-17	0.0000	34866.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
F-26	0.0000	32598.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
MH-F1	0.0000	6.5355E+06	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
F-1	0.0000	21771.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
F-10	0.0000	12762.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
F-16	0.0000	18513.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
F-28	0.0000	76149.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
F-11	0.0000	15615.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
F-15	0.0000	24345.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
F-29	0.0000	18603.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
F-12	0.0000	15813.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
F-15A	0.0000	24183.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
F-31	0.0000	17055.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
F-13	0.0000	8748.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
F-32	0.0000	8604.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
F-14	0.0000	67356.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
F-33	0.0000	72400.5050	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
F-3	0.0000	23616.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
SYS-F-OUT	0.0000	0.0000	0.0000	0.0000	28591.8380	0.0000	8.1262E+06	0.0000	

Table E20 - Junction Flooding and Volume Listing.
The maximum volume is the total volume in the node including the volume in the flooded storage area. This is the max

volume at any time. The volume in the flooded storage area is the total volume above the ground elevation, where the flooded pond storage area starts. The fourth column is instantaneous, the fifth is the sum of the flooded volume over the entire simulation. Units are either ft^3 or m^3 depending on the units.

Junction Name	Surcharged Time (min)	Flooded Time(min)	Out of 1D-System (Flooded Volume)	Maximum Volume	Passed to 2D cell OR Volume Stored in allowed Flood Pond of 1D-System
F-OUT	0.0000	0.0000	0.0000	139.9486	0.0000
F-6	966.3917	0.0000	0.0000	139.6121	0.0000
F-5	950.7000	50.2583	0.0000	351.8756	1481.3155
F-7	1030.9500	0.0000	0.0000	129.8063	0.0000
F-20	1004.8333	697.2167	0.0000	3398.4673	217289.3421
F-4	944.0667	631.3917	0.0000	480.7289	8425.1528
F-8	1027.4083	0.0000	0.0000	127.8570	0.0000
F-18	986.6750	747.9667	0.0000	4404.6545	20091.5245
F-25	1006.8750	777.9667	0.0000	9014.4544	528813.1200
F-2	932.0917	0.0000	0.0000	62.0489	0.0000
F-9	1023.5167	706.5333	0.0000	3774.2406	12011.0897
F-17	977.8583	807.8083	0.0000	8405.4481	22812.4639
F-26	1022.2667	744.4750	0.0000	5834.1559	84087.3019
MH-F1	1037.7167	696.9667	0.0000	240748.8109	460800.3032
F-1	904.7500	0.0000	0.0000	56.3298	0.0000
F-10	1018.4083	838.4917	0.0000	16208.2139	26137.1149
F-16	971.0750	771.5083	0.0000	5830.4897	15245.1430
F-28	1006.3167	774.9000	0.0000	8014.1328	25363.3222
F-11	1015.1750	899.1667	0.0000	26760.6102	40869.1713
F-15	962.9000	565.1333	0.0000	2363.0599	11074.3302
F-29	1000.4750	841.5667	0.0000	17126.5649	39859.1549
F-12	1010.0000	919.9667	0.0000	30917.8670	43775.4959
F-15A	952.2000	0.0000	0.0000	65.6087	0.0000
F-31	988.0000	857.1667	0.0000	18738.6150	27597.0858
F-13	1007.9750	907.8583	0.0000	35518.9750	58794.6468
F-32	984.9583	844.8667	0.0000	16535.3199	28985.1862
F-14	1004.8917	882.1500	0.0000	20100.4049	36223.2695
F-33	978.6833	821.5417	0.0000	8673.1415	16417.3164
F-3	997.0167	841.2667	0.0000	8256.3011	14696.1992
MH-F2	0.0000	0.0000	0.0000	141.5587	0.0000
SYS-F-OUT	0.0000	0.0000	0.0000	146.5196	0.0000

Simulation Specific Information			
Number of Input Conduits.....	30	Number of Simulated Conduits.....	31
Number of Natural Channels.....	2	Number of Junctions.....	31
Number of Storage Junctions.....	7	Number of Weirs.....	0
Number of Orifices.....	0	Number of Pumps.....	0
Number of Free Outfalls.....	1	Number of Tide Gate Outfalls.....	0

Average % Change in Junction or Conduit is defined as:
Conduit % Change ==> 100.0 (Q(n+1) - Q(n)) / Qfull
Junction % Change ==> 100.0 (Y(n+1) - Y(n)) / Yfull

The Conduit with the largest average change was..L_L-MH-F1 with 31.565 percent
The Junction with the largest average change was.MH-F1 with 1.847 percent
The Conduit with the largest sinuosity was.....L_L-MH-F1 with 2391.607

Table E21. Continuity balance at the end of the simulation
Junction Inflow, Outflow or Street Flooding
Error = Inflow + Initial Volume - Outflow - Final Volume

Inflow Junction	Inflow Volume,ft^3	Average Inflow, cfs
F-6	33948.0938	0.1965
F-5	33543.0910	0.1941
F-7	23589.0745	0.1365
F-20	26559.0837	0.1537
F-4	42066.1352	0.2434
F-8	24354.0763	0.1409
F-18	297012.6173	1.7188
F-25	38241.1204	0.2213
F-2	31050.1030	0.1797
F-9	67914.1250	0.3930
F-17	34866.1168	0.2018

F-26	32598.0929	0.1886
MH-F1	6.53557E+06	37.8216
F-1	21771.0717	0.1260
F-10	12762.0935	0.0739
F-16	18513.0680	0.1071
F-28	76149.1278	0.4407
F-11	15615.0451	0.0904
F-15	24345.0827	0.1409
F-29	18603.0634	0.1077
F-12	15813.0542	0.0915
F-15A	24183.0763	0.1399
F-31	17055.0506	0.0987
F-13	8748.0864	0.0506
F-32	8604.0855	0.0498
F-14	67356.1379	0.3898
F-33	72400.8636	0.4190
F-3	23616.0745	0.1367
SYS-F-OUT	28591.8380	0.1655
SYS-F-OUT	-8.126E+06	-47.0267

Outflow Junction	Outflow Volume,ft^3	Average Outflow, cfs
SYS-F-OUT	8.12622E+06	47.0267

==

Initial system volume	= 0.0000 Cu Ft
Total system inflow volume	= 7.675392E+06 Cu Ft
Inflow + Initial volume	= 7.675392E+06 Cu Ft

==

Total system outflow	= 8.126220E+06 Cu Ft
Volume left in system	= 12438.4086 Cu Ft
Evaporation	= 0.0000 Cu Ft
Outflow + Final Volume	= 8.138659E+06 Cu Ft

==

==
| Total Model Continuity Error |
| Error in Continuity, Percent = -6.0338 |
| Error in Continuity, ft^3 = -463114.535 |
| + Error means a continuity loss, - a gain |
==

##
Table E22. Numerical Model judgement section
##

Your overall error was -6.0338 percent

Worst nodal error was in node MH-F1 with -3.3431 percent

Of the total inflow this loss was 5.8898 percent

Your overall continuity error was Fair

Excellent Efficiency

Efficiency of the simulation 2.08

Most Number of Non Convergences at one Node 0.

Total Number Non Convergences at all Nodes 0.

Total Number of Nodes with Non Convergences 0.

===> Hydraulic model simulation ended normally.
===> XP-SWMM Simulation ended normally.

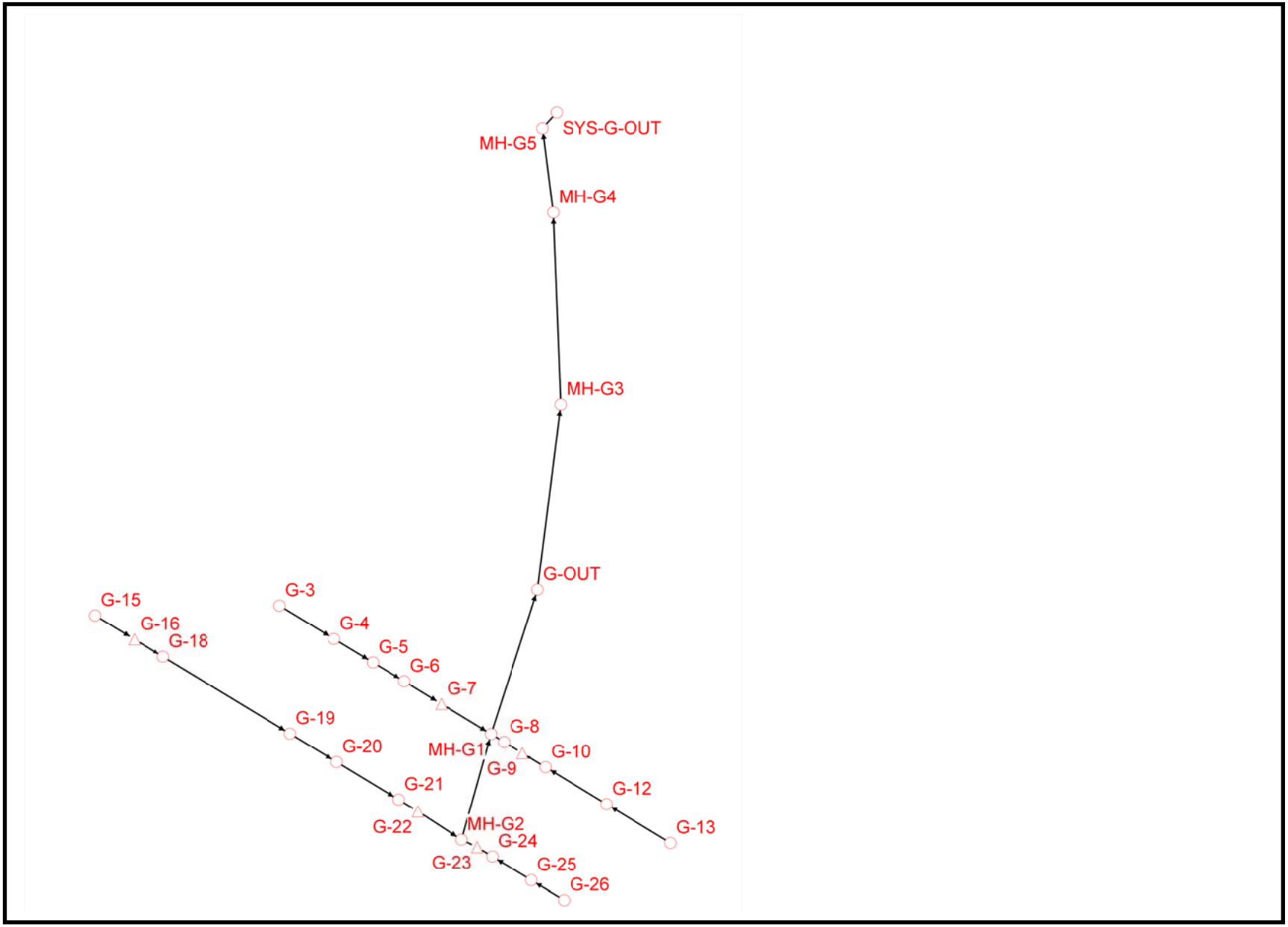
===> Your input file was named : P:\PROJECTS\290PMC\PHASEII\DRA\Models\SWMM\Outfalls 9-16\SWMM\Report 6-2011\Mitigated\US290_Mit_SegB_SysF.DAT
===> Your output file was named : P:\PROJECTS\290PMC\PHASEII\DRA\Models\SWMM\Outfalls 9-16\SWMM\Report 6-2011\Mitigated\US290_Mit_SegB_SysF.out

==
| SWMM Simulation Date and Time Summary |
==
| Starting Date... June 24, 2011 Time... 15:14:14:82 |

```
|   Ending Date... June       24, 2011  Time...   15:27:34:39  |
|  Elapsed Time...   13.32617 minutes or    799.57000 seconds  |
*==============================================================*
```

OUTFALL 16
SWMM OUTPUT
100 YR- MITIGATED CONDITIONS

OUTFALL 16
MITIGATED CONDITIONS SWMM LAYOUT



```
 Current Directory:   C:\XPS\xpstorm
 Engine Name: C:\XPS\xpstorm\SWMMEN~1.EXE


 Input File : Outfalls 9-16\SWMM\Report 6-2011\Mitigated\US290_Mit_SegB_SysG.XP

          *================================================*
          |                    xpswmm                      |
          |     Storm and Wastewater Management Model      |
          |           Interface Version: 10.52             |
          |              Engine Version: 10.54             |
          |================================================|
          |                                                |
          |                Developed by                    |
          |                                                |
          |                XP Software                     |
          |                                                |
          |================================================|
          |      XP Software       November, 2006          |
          |       Data File Version --->    11.9           |
          |       Serial Number: 66-1052-0602              |
          |                H & H Resources                 |
          *================================================*

Engine Name: C:\XPS\xpstorm\SWMMEN~1.EXE


*====================================================*
|       Input and Output file names by Layer         |
*====================================================*

 Input File  to Layer #     1 JOT.US
 Output File to Layer #     1 JOT.US

*============================================================*
|   Special command line arguments in XP-SWMM2000. This     |
|   now includes program defaults. $Keywords are the program|
|   defaults.  Other Keywords are from the SWMMCOM.CFG file.|
|   or the command line or any cfg file on the command line.|
|   Examples include these in the file xpswm.bat under the   |
|   section :solve or in the windows version XPSWMM32 in the|
|   file solve.bat                                           |
|                                                            |
|   Note: the cfg file should be in the subdirectory swmxp   |
|         or defined by the set variable in the xpswm.bat    |
|         file.  Some examples of the command lines possible|
|         are shown below:                                   |
|                                                            |
|   swmmd swmmcom.cfg                                        |
|   swmmd my.cfg                                             |
|   swmmd nokeys nconv5 perv extranwq                        |
*============================================================*

 $powerstation                        0.0000         1         2
 $perv                                0.0000         0         4
 $oldegg                              0.0000         0         7
 $as                                  0.0000         0        11
 $noflat                              0.0000         0        21
 $oldomega                            0.0000         0        24
 $oldvol                              0.0000         1        28
 $implicit                            0.0000         1        29
 $oldhot                              0.0000         1        31
 $oldscs                              0.0000         0        33
 $flood                               0.0000         1        40
 $nokeys                              0.0000         0        42
 $pzero                               0.0000         0        55
 $oldvol2                             0.0000         2        59
 $storage2                            0.0000         3        62
 $oldhot1                             0.0000         1        63
 $pumpwt                              0.0000         1        70
 $ecloss                              0.0000         1        77
 $exout                               0.0000         0        97
 SPATIAL=0.55                         0.5500         5       124
 $djref = -1.0                       -0.1000         3       143
 $weirlen = 50                       50.0000         1       153
 $oldbnd                              0.0000         1       154
 $nogrelev                            0.0000         1       161
 $ncmid                               0.0000         0       164
 $new_nl_97                           0.0000         2       290
 $best97                              0.0000         1       294
 $newbound                            0.0000         1       295
 $q_tol = 0.01                        0.0001         1       316
 $new_storage                         0.0000         1       322
 $old_iteration                       0.0000         1       333
 MINLEN=10                           10.0000         1       346
 $review_elevation                    0.0000         1       383
 $use_half_volume                     0.0000         1       385
 $min_ts = 0.5                        0.5000         1       407
 $design_restart = on                 0.0000         1       412
 $zero_value=1.e-05                   0.0000         1       415
 $relax_depth = on                    0.0000         1       427
 $saveallpts = on                     0.0000         1       434

 *============================================================*
 | Parameter Values on the Tapes Common Block.These are the |
 | values read from the data file and dynamically allocated |
 | by the model for this simulation.                        |
 *============================================================*

  Number of Subcatchments in the Runoff Block (NW)....     0
  Number of Channel/Pipes in the Runoff Block (NG)....     0
  Runoff Water quality constituents (NRQ).............     0
  Runoff Land Uses per Subcatchment (NLU).............     0
  Number of Elements in the Transport Block (NET).....     0
  Number of Storage Junctions in Transport (NTSE).....     0
  Number of Input Hydrographs in Transport (NTH)......     0
  Number of Elements in the Extran Block (NEE)........    28
  Number of Groundwater Subcatchments in Runoff (NGW).     0
  Number of Interface locations for all Blocks (NIE)..    28
  Number of Pumps in Extran (NEP).....................     0
  Number of Orifices in Extran (NEO)..................     0
  Number of Tide Gates/Free Outfalls in Extran (NTG)..     1
  Number of Extran Weirs (NEW)........................     0
  Number of scs hydrograph points.....................     1
  Number of Extran printout locations (NPO)...........     0
  Number of Tide elements in Extran (NTE).............     1
  Number of Natural channels (NNC)....................     0
  Number of Storage junctions in Extran (NVSE)........     5
  Number of Time history data points in Extran(NTVAL).   300
  Number of Variable storage elements in Extran (NVST)     7
  Number of Input Hydrographs in Extran (NEH).........    22
  Number of Particle sizes in Transport Block (NPS)...     0
  Number of User defined conduits (NHW)...............    28
  Number of Connecting conduits in Extran (NECC)......    20
  Number of Upstream elements in Transport (NTCC).....    10
  Number of Storage/treatment plants (NSTU)...........     1
```

```
 Number of Values for R1 lines in Transport (NR1)....     0
 Number of Nodes to be allowed for (NNOD)............    28
 Number of Plugs in a Storage Treatment Unit.........     1


#####################################################
#    Entry made to the HYDRAULIC Layer(Block) of SWMM #
#    Last Updated June,2005 by XP Software          #

    US 290/ Hempstead Highway Corridor - From W.Little York to Hollister
    Drainage Impact & Mitigation Study - Existing Conditions - SegB_SysA -1


*============================================================*
|        HYDRAULICS TABLES IN THE OUTPUT FILE                |
|  These are the more important tables in the output file.   |
|  You can use your editor to find the table numbers,        |
|  for example: search for Table E20 to check continuity.    |
|  This output file can be imported into a Word Processor    |
|  and printed on US letter or A4 paper using portrait       |
|  mode, courier font, a size of 8 pt. and margins of 0.75   |
|                                                            |
| Table E1   - Basic Conduit Data                            |
| Table E2   - Conduit Factor Data                           |
| Table E3a  - Junction Data                                 |
| Table E3b  - Junction Data                                 |
| Table E4   - Conduit Connectivity Data                     |
| Table E4a  - Dry Weather Flow Data                         |
| Table E4b  - Real Time Control Data                        |
| Table E5   - Junction Time Step Limitation Summary         |
| Table E5a  - Conduit Explicit Condition Summary            |
| Table E6   - Final Model Condition                         |
| Table E7   - Iteration Summary                             |
| Table E8   - Junction Time Step Limitation Summary         |
| Table E9   - Junction  Summary  Statistics                 |
| Table E10  - Conduit   Summary  Statistics                 |
| Table E11  - Area assumptions used in the analysis         |
| Table E12  - Mean conduit information                      |
| Table E13  - Channel losses(H) and culvert info            |
| Table E13a - Culvert Analysis Classification               |
| Table E14  - Natural Channel Overbank Flow Information     |
| Table E14a - Natural Channel Encroachment Information      |
| Table E14b - Floodplain Mapping                            |
| Table E15  - Spreadsheet Info List                         |
| Table E15a - Spreadsheet Reach List                        |
| Table E16  - New Conduit Output Section                    |
| Table E17  - Pump Operation                                |
| Table E18  - Junction Continuity Error                     |
| Table E19  - Junction Inflow & Outflow Listing             |
| Table E20  - Junction Flooding and Volume List             |
| Table E21  - Continuity balance at simulation end          |
| Table E22  - Model Judgement Section                       |
*============================================================*

Time Control from Hydraulics Job Control
Year.........    1995 Month.......       1
Day..........       1 Hour........       0
Minute.......       0 Second......       0


Control information for simulation
----------------------------------

Integration cycles..................    172800
Length of integration step is......      1.00 seconds
Simulation length...................     48.00 hours
Do not create equiv. pipes(NEQUAL).         0
Use U.S. customary units for I/O...         0
Printing starts in cycle...........         1
Intermediate printout intervals of.       500 cycles
Intermediate printout intervals of.      8.33 minutes
Summary printout intervals of......       500 cycles
Summary printout time interval of..      8.33 minutes
Hot start file parameter (REDO)....         0
Initial time.......................      0.00 hours

Iteration variables: Flow Tolerance.   0.00010
                     Head Tolerance.   0.00010
    Minimum depth (m or ft).........   0.00001
    Underrelaxation parameter.......   0.85000
    Time weighting parameter........   0.85000
    Conduit roughness factor........   1.00000
    Flow adjustment factor..........   1.00000
    Initial Condition Smoothing.....         0
    Courant Time Step Factor........   1.00000
    Default Expansion/Contraction K.   0.00000
    Default Entrance/Exit K.........   0.00000
    Routing Method..................   Dynamic Wave
Default surface area of junctions...     12.57 square feet.
Minimum Junction/Conduit Depth......   0.00001 feet.
Ponding Area Coefficient............   5000.00
Ponding Area Exponent...............    1.0000
Minimum Orifice Length..............    500.00 feet.
NJSW input hydrograph junctions.....    22
     or user defined hydrographs....

*================================================*
|          Table E1 - Conduit Data               |
*================================================*
```

Inp Num	Conduit Name	Length (ft)	Conduit Class	Area (ft^2)	Manning Coef.	Max Width (ft)	Depth (ft)	Trapezoid Side Slopes
1	L_L-MH-G1	415.9370	Circular	23.7583	0.0130	5.5000	5.5000	
2	L_L-G-7	159.5880	Circular	4.9087	0.0130	2.5000	2.5000	
3	L_L-G-8	41.8060	Circular	7.0686	0.0130	3.0000	3.0000	
4	L_L-MH-G2	300.5760	Circular	15.9043	0.0130	4.5000	4.5000	
5	L_L-G-6	119.6860	Circular	4.9087	0.0130	2.5000	2.5000	
6	L_L-G-9	58.6070	Circular	7.0686	0.0130	3.0000	3.0000	
7	L_L-G-22	142.8660	Circular	12.5664	0.0130	4.0000	4.0000	
8	L_L-G-23	47.4170	Circular	7.0686	0.0130	3.0000	3.0000	
9	L_L-G-5	100.0000	Circular	4.9087	0.0130	2.5000	2.5000	
10	L_L-G-10	74.5130	Circular	7.0686	0.0130	3.0000	3.0000	
11	L_L-G-21	61.8610	Circular	12.5664	0.0130	4.0000	4.0000	
12	L_L-G-24	48.9840	Circular	4.9087	0.0130	2.5000	2.5000	
13	L_L-G-4	125.0000	Circular	3.1416	0.0130	2.0000	2.0000	
14	L_L-G-12	195.7160	Circular	4.9087	0.0130	2.5000	2.5000	
15	L_L-G-20	199.3030	Circular	12.5664	0.0130	4.0000	4.0000	
16	L_L-G-25	125.0000	Circular	4.9087	0.0130	2.5000	2.5000	
17	L_L-G-3	174.9990	Circular	3.1416	0.0130	2.0000	2.0000	
18	L_L-G-13	204.8730	Circular	3.1416	0.0130	2.0000	2.0000	
19	L_L-G-19	149.8530	Circular	9.6211	0.0130	3.5000	3.5000	
20	L_L-G-26	104.9990	Circular	3.1416	0.0130	2.0000	2.0000	
21	L_L-G-18	407.4740	Circular	9.6211	0.0130	3.5000	3.5000	
22	L_L-G-16	91.5100	Circular	7.0686	0.0130	3.0000	3.0000	
23	L_L-G-15	126.0650	Circular	4.9087	0.0130	2.5000	2.5000	
24	L_L-G-OUT	477.0000	Circular	28.2743	0.0130	6.0000	6.0000	

25	L_L-MH-G3	518.0000	Circular	33.1831	0.0130	6.5000	6.5000
26	L_L-MH-G4	230.0000	Circular	33.1831	0.0130	6.5000	6.5000
27	L_L-MH-G5	100.0000	Circular	33.1831	0.0130	6.5000	6.5000

Total length of all conduits .... 4801.6330 feet

==
| If there are messages about (sqrt(g*d)*dt/dx), or |
| the sqrt(wave celerity)*time step/conduit length |
| in the output file all it means is that the |
| program will lower the internal time step to |
| satisfy this condition (explicit condition). |
| You control the actual internal time step by |
| using the minimum courant time step factor in the |
| HYDRAULICS job control. The message put in words |
| states that the smallest conduit with the fastest |
| velocity will control the time step selection. |
| You have further control by using the modify |
| conduit option in the HYDRAULICS Job Control. |
==

Conduit Name	Courant Ratio
L_L-MH-G1	0.03
L_L-G-7	0.06
L_L-G-8	0.24
L_L-MH-G2	0.04
L_L-G-6	0.07
L_L-G-9	0.17
L_L-G-22	0.08
L_L-G-23	0.21
L_L-G-5	0.09
L_L-G-10	0.13
L_L-G-21	0.18
L_L-G-24	0.18
L_L-G-4	0.06
L_L-G-12	0.05
L_L-G-20	0.06
L_L-G-25	0.07
L_L-G-3	0.05
L_L-G-13	0.04
L_L-G-19	0.07
L_L-G-26	0.08
L_L-G-18	0.03
L_L-G-16	0.11
L_L-G-15	0.07
L_L-G-OUT	0.03
L_L-MH-G3	0.03
L_L-MH-G4	0.06
L_L-MH-G5	0.14

==================
| Conduit Volume |
==================

Full pipe or full open conduit volume
Input full depth volume..... 7.5158E+04 cubic feet

==
| Table E3a - Junction Data |
==

Inp Num	Junction Name	Ground Elevation	Crown Elevation	Invert Elevation	Qinst cfs	Initial Depth-ft	Interface Flow (%)
1	G-OUT	82.0200	82.0200	69.5700	0.0000	0.0000	100.0000
2	MH-G1	82.0900	82.0900	71.3940	0.0000	0.0000	100.0000
3	G-7	81.8300	81.8300	76.1500	0.0000	0.0000	100.0000
4	G-8	81.8800	81.8800	75.3860	0.0000	0.0000	100.0000
5	MH-G2	81.7600	81.7600	72.7020	0.0000	0.0000	100.0000
6	G-6	82.2900	82.2900	76.4850	0.0000	0.0000	100.0000
7	G-9	81.7300	81.7300	75.5500	0.0000	0.0000	100.0000
8	G-22	81.8100	81.8100	73.6020	0.0000	0.0000	100.0000
9	G-23	81.7400	81.7400	74.9500	0.0000	0.0000	100.0000
10	G-5	82.7900	82.7900	76.7650	0.0000	0.0000	100.0000
11	G-10	81.9600	81.9600	75.7590	0.0000	0.0000	100.0000
12	G-21	81.8400	81.8400	73.7750	0.0000	0.0000	100.0000
13	G-24	81.7100	81.7100	75.5870	0.0000	0.0000	100.0000
14	G-4	83.4200	83.4200	77.6150	0.0000	0.0000	100.0000
15	G-12	82.9400	82.9400	76.8070	0.0000	0.0000	100.0000
16	G-20	82.5300	82.5300	74.3330	0.0000	0.0000	100.0000
17	G-25	81.8600	81.8600	75.9370	0.0000	0.0000	100.0000
18	G-3	84.2900	84.2900	78.1050	0.0000	0.0000	100.0000
19	G-13	83.9600	83.9600	77.8810	0.0000	0.0000	100.0000
20	G-19	83.2800	83.2800	75.3030	0.0000	0.0000	100.0000
21	G-26	82.3900	82.3900	76.7310	0.0000	0.0000	100.0000
22	G-18	83.5500	83.5500	76.4440	0.0000	0.0000	100.0000
23	G-16	83.2300	83.2300	77.2000	0.0000	0.0000	100.0000
24	G-15	84.0500	84.0500	78.0530	0.0000	0.0000	100.0000
25	MH-G3	82.9200	82.9200	68.7700	0.0000	0.0000	100.0000
26	MH-G4	82.8200	82.8200	68.5100	0.0000	0.0000	100.0000
27	MH-G5	81.6200	81.6200	68.2100	0.0000	0.0000	100.0000
28	SYS-G-OUT	81.6200	81.6200	68.1100	0.0000	0.0000	100.0000

==
| Table E3b - Junction Data |
==

Inp Num	Junction Name	X Coord.	Y Coord.	Type of Manhole	Type of Inlet	Maximum Capacity	Pavement Shape	Pavement Slope
1	G-OUT	3.076719E+06	13.87507E+06	F	Normal		0	0.0000
2	MH-G1	3.076591E+06	13.87468E+06	F	Normal		0	0.0000
3	G-7	3.076455E+06	13.87476E+06	F	Normal		0	0.0000
4	G-8	3.076627E+06	13.87465E+06	F	Normal		0	0.0000
5	MH-G2	3.076510E+06	13.87439E+06	F	Normal		0	0.0000
6	G-6	3.076352E+06	13.87482E+06	F	Normal		0	0.0000
7	G-9	3.076677E+06	13.87462E+06	F	Normal		0	0.0000
8	G-22	3.076390E+06	13.87446E+06	F	Normal		0	0.0000
9	G-23	3.076553E+06	13.87437E+06	F	Normal		0	0.0000
10	G-5	3.076267E+06	13.87487E+06	F	Normal		0	0.0000
11	G-10	3.076741E+06	13.87459E+06	F	Normal		0	0.0000
12	G-21	3.076337E+06	13.87450E+06	F	Normal		0	0.0000
13	G-24	3.076595E+06	13.87434E+06	F	Normal		0	0.0000
14	G-4	3.076160E+06	13.87494E+06	F	Normal		0	0.0000
15	G-12	3.076908E+06	13.87448E+06	F	Normal		0	0.0000
16	G-20	3.076167E+06	13.87460E+06	F	Normal		0	0.0000
17	G-25	3.076702E+06	13.87428E+06	F	Normal		0	0.0000
18	G-3	3.076010E+06	13.87503E+06	F	Normal		0	0.0000
19	G-13	3.077084E+06	13.87438E+06	F	Normal		0	0.0000
20	G-19	3.076039E+06	13.87468E+06	F	Normal		0	0.0000
21	G-26	3.076792E+06	13.87422E+06	F	Normal		0	0.0000
22	G-18	3.075690E+06	13.87489E+06	F	Normal		0	0.0000
23	G-16	3.075612E+06	13.87494E+06	F	Normal		0	0.0000
24	G-15	3.075504E+06	13.87500E+06	F	Normal		0	0.0000

25	MH-G3	3.076783E+06	13.87558E+06	F	Normal	0	0.0000
26	MH-G4	3.076762E+06	13.87611E+06	F	Normal	0	0.0000
27	MH-G5	3.076732E+06	13.87634E+06	F	Normal	0	0.0000
28	SYS-G-OUT	3.076772E+06	13.87638E+06	F	Normal	0	0.0000

Table E4 - Conduit Connectivity

Input Number	Conduit Name	Upstream Node	Downstream Node	Upstream Elevation	Downstream Elevation	
1	L_L-MH-G1	MH-G1	G-OUT	71.3940	70.0700	No Design
2	L_L-G-7	G-7	MH-G1	76.1500	75.7030	No Design
3	L_L-G-8	G-8	MH-G1	75.3860	75.2690	No Design
4	L_L-MH-G2	MH-G2	MH-G1	72.7020	71.8600	No Design
5	L_L-G-6	G-6	G-7	76.4850	76.1500	No Design
6	L_L-G-9	G-9	G-8	75.5500	75.3860	No Design
7	L_L-G-22	G-22	MH-G2	73.6020	73.2020	No Design
8	L_L-G-23	G-23	MH-G2	74.9500	74.8170	No Design
9	L_L-G-5	G-5	G-6	76.7650	76.4850	No Design
10	L_L-G-10	G-10	G-9	75.7590	75.5500	No Design
11	L_L-G-21	G-21	G-22	73.7750	73.6020	No Design
12	L_L-G-24	G-24	G-23	75.5870	75.4500	No Design
13	L_L-G-4	G-4	G-5	77.6150	77.2650	No Design
14	L_L-G-12	G-12	G-10	76.8070	76.2590	No Design
15	L_L-G-20	G-20	G-21	74.3330	73.7750	No Design
16	L_L-G-25	G-25	G-24	75.9370	75.5870	No Design
17	L_L-G-3	G-3	G-4	78.1050	77.6150	No Design
18	L_L-G-13	G-13	G-12	77.8810	77.3070	No Design
19	L_L-G-19	G-19	G-20	75.3030	74.8830	No Design
20	L_L-G-26	G-26	G-25	76.7310	76.4370	No Design
21	L_L-G-18	G-18	G-19	76.4440	75.3030	No Design
22	L_L-G-16	G-16	G-18	77.2000	76.9440	No Design
23	L_L-G-15	G-15	G-16	78.0530	77.7000	No Design
24	L_L-G-OUT	G-OUT	MH-G3	69.5700	69.2700	No Design
25	L_L-MH-G3	MH-G3	MH-G4	68.7700	68.5100	No Design
26	L_L-MH-G4	MH-G4	MH-G5	68.5100	68.2100	No Design
27	L_L-MH-G5	MH-G5	SYS-G-OUT	68.2100	68.1100	No Design

Storage Junction Data

STORAGE JUNCTION NUMBER OR NAME	JUNCTION TYPE	MAXIMUM OR CONSTANT SURFACE AREA (FT2)	PEAK OR CONSTANT VOLUME (CUBIC FEET)	CROWN ELEVATION (FT)	DEPTH STARTS FROM
G-7	Stage/Area	17119.0800	87150.9921	81.8300	Spill Crest
G-9	Stage/Area	17119.0800	95710.5321	81.7300	Spill Crest
G-22	Stage/Area	17119.0800	130428.0264	81.8100	Spill Crest
G-23	Stage/Area	17119.0800	106153.1709	81.7400	Spill Crest
G-16	Stage/Area	17119.0800	93142.6701	83.2300	Spill Crest

Variable storage data for node | G-7

Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	76.1500	0.0000	4.3560	0.0000	0.0001	0.0000
2	76.1750	0.0250	150.8265	1.5068	0.0035	0.0000
3	76.2000	0.0500	297.2970	7.0058	0.0068	0.0002
4	76.2250	0.0750	443.7675	16.2082	0.0102	0.0004
5	76.2500	0.1000	590.2380	29.0898	0.0135	0.0007
6	76.2750	0.1250	736.7085	45.6428	0.0169	0.0010
7	76.3000	0.1500	883.1790	65.8638	0.0203	0.0015
8	76.3250	0.1750	1029.6495	89.7507	0.0236	0.0021
9	76.3500	0.2000	1176.1200	117.3026	0.0270	0.0027
10	76.3750	0.2250	1475.5950	150.3783	0.0339	0.0035
11	76.4000	0.2500	1775.0700	190.9540	0.0408	0.0044
12	76.4250	0.2750	2074.5450	239.0256	0.0476	0.0055
13	76.4500	0.3000	2374.0200	294.5906	0.0545	0.0068
14	76.4750	0.3250	2673.4950	357.6475	0.0614	0.0082
15	76.5000	0.3500	2972.9700	428.1952	0.0683	0.0098
16	76.5250	0.3750	3272.4450	506.2330	0.0751	0.0116
17	76.5500	0.4000	3571.9200	591.7602	0.0820	0.0136
18	76.5625	0.4125	3773.3850	637.6626	0.0866	0.0146
19	76.5750	0.4250	3974.8500	686.0836	0.0912	0.0158
20	76.5875	0.4375	4176.3150	737.0232	0.0959	0.0169
21	76.6000	0.4500	4377.7800	790.4814	0.1005	0.0181
22	76.6125	0.4625	4579.2450	846.4581	0.1051	0.0194
23	76.6250	0.4750	4780.7100	904.9533	0.1098	0.0208
24	76.6375	0.4875	4982.1750	965.9670	0.1144	0.0222
25	76.6500	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	76.6625	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	76.6750	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	76.6875	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	76.7000	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	76.7125	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	76.7250	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	76.7375	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	76.7500	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	76.7625	0.6125	7900.6950	1761.8875	0.1814	0.0404
35	76.7750	0.6250	8265.5100	1862.9177	0.1897	0.0428
36	76.7875	0.6375	8630.3250	1968.5084	0.1981	0.0452
37	76.8000	0.6500	8995.1400	2078.6597	0.2065	0.0477
38	76.8125	0.6625	9359.9550	2193.3715	0.2149	0.0504
39	76.8250	0.6750	9724.7700	2312.6438	0.2233	0.0531
40	76.8375	0.6875	10089.5850	2436.4765	0.2316	0.0559
41	76.8500	0.7000	10454.4000	2564.8697	0.2400	0.0589
42	76.8750	0.7250	11287.4850	2836.5767	0.2591	0.0651
43	76.9000	0.7500	12120.5700	3129.1156	0.2782	0.0718
44	76.9250	0.7750	12953.6550	3442.4857	0.2974	0.0790
45	76.9500	0.8000	13786.7400	3776.6866	0.3165	0.0867
46	76.9750	0.8250	14619.8250	4131.7177	0.3356	0.0949
47	77.0000	0.8500	15452.9100	4507.5788	0.3548	0.1035
48	77.0250	0.8750	16285.9950	4904.2696	0.3739	0.1126
49	77.0500	0.9000	17119.0800	5321.7897	0.3930	0.1222
50	81.8300	5.6800	17119.0800	87150.9921	0.3930	2.0007

Variable storage data for node | G-9

Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	75.5500	0.0000	4.3560	0.0000	0.0001	0.0000
2	75.5750	0.0250	150.8265	1.5068	0.0035	0.0000
3	75.6000	0.0500	297.2970	7.0058	0.0068	0.0002
4	75.6250	0.0750	443.7675	16.2082	0.0102	0.0004
5	75.6500	0.1000	590.2380	29.0898	0.0135	0.0007
6	75.6750	0.1250	736.7085	45.6428	0.0169	0.0010
7	75.7000	0.1500	883.1790	65.8638	0.0203	0.0015
8	75.7250	0.1750	1029.6495	89.7507	0.0236	0.0021
9	75.7500	0.2000	1176.1200	117.3026	0.0270	0.0027

10	75.7750	0.2250	1475.5950	150.3783	0.0339	0.0035
11	75.8000	0.2500	1775.0700	190.9540	0.0408	0.0044
12	75.8250	0.2750	2074.5450	239.0256	0.0476	0.0055
13	75.8500	0.3000	2374.0200	294.5906	0.0545	0.0068
14	75.8750	0.3250	2673.4950	357.6475	0.0614	0.0082
15	75.9000	0.3500	2972.9700	428.1952	0.0683	0.0098
16	75.9250	0.3750	3272.4450	506.2330	0.0751	0.0116
17	75.9500	0.4000	3571.9200	591.7602	0.0820	0.0136
18	75.9625	0.4125	3773.3850	637.6626	0.0866	0.0146
19	75.9750	0.4250	3974.8500	686.0836	0.0912	0.0158
20	75.9875	0.4375	4176.3150	737.0232	0.0959	0.0169
21	76.0000	0.4500	4377.7800	790.4814	0.1005	0.0181
22	76.0125	0.4625	4579.2450	846.4581	0.1051	0.0194
23	76.0250	0.4750	4780.7100	904.9533	0.1098	0.0208
24	76.0375	0.4875	4982.1750	965.9670	0.1144	0.0222
25	76.0500	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	76.0625	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	76.0750	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	76.0875	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	76.1000	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	76.1125	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	76.1250	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	76.1375	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	76.1500	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	76.1625	0.6125	7900.6950	1761.8875	0.1814	0.0404
35	76.1750	0.6250	8265.5100	1862.9177	0.1897	0.0428
36	76.1875	0.6375	8630.3250	1968.5084	0.1981	0.0452
37	76.2000	0.6500	8995.1400	2078.6597	0.2065	0.0477
38	76.2125	0.6625	9359.9550	2193.3715	0.2149	0.0504
39	76.2250	0.6750	9724.7700	2312.6438	0.2233	0.0531
40	76.2375	0.6875	10089.5850	2436.4765	0.2316	0.0559
41	76.2500	0.7000	10454.4000	2564.8697	0.2400	0.0589
42	76.2750	0.7250	11287.4850	2836.5767	0.2591	0.0651
43	76.3000	0.7500	12120.5700	3129.1156	0.2782	0.0718
44	76.3250	0.7750	12953.6550	3442.4857	0.2974	0.0790
45	76.3500	0.8000	13786.7400	3776.6866	0.3165	0.0867
46	76.3750	0.8250	14619.8250	4131.7177	0.3356	0.0949
47	76.4000	0.8500	15452.9100	4507.5788	0.3548	0.1035
48	76.4250	0.8750	16285.9950	4904.2696	0.3739	0.1126
49	76.4500	0.9000	17119.0800	5321.7897	0.3930	0.1222
50	81.7300	6.1800	17119.0800	95710.5321	0.3930	2.1972

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| Variable storage data for node | G-22
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	73.6020	0.0000	4.3560	0.0000	0.0001	0.0000
2	73.6270	0.0250	150.8265	1.5068	0.0035	0.0000
3	73.6520	0.0500	297.2970	7.0058	0.0068	0.0002
4	73.6770	0.0750	443.7675	16.2082	0.0102	0.0004
5	73.7020	0.1000	590.2380	29.0898	0.0135	0.0007
6	73.7270	0.1250	736.7085	45.6428	0.0169	0.0010
7	73.7520	0.1500	883.1790	65.8638	0.0203	0.0015
8	73.7770	0.1750	1029.6495	89.7507	0.0236	0.0021
9	73.8020	0.2000	1176.1200	117.3026	0.0270	0.0027
10	73.8270	0.2250	1475.5950	150.3783	0.0339	0.0035
11	73.8520	0.2500	1775.0700	190.9540	0.0408	0.0044
12	73.8770	0.2750	2074.5450	239.0256	0.0476	0.0055
13	73.9020	0.3000	2374.0200	294.5906	0.0545	0.0068
14	73.9270	0.3250	2673.4950	357.6475	0.0614	0.0082
15	73.9520	0.3500	2972.9700	428.1952	0.0683	0.0098
16	73.9770	0.3750	3272.4450	506.2330	0.0751	0.0116
17	74.0020	0.4000	3571.9200	591.7602	0.0820	0.0136
18	74.0145	0.4125	3773.3850	637.6626	0.0866	0.0146
19	74.0270	0.4250	3974.8500	686.0836	0.0912	0.0158
20	74.0395	0.4375	4176.3150	737.0232	0.0959	0.0169
21	74.0520	0.4500	4377.7800	790.4814	0.1005	0.0181
22	74.0645	0.4625	4579.2450	846.4581	0.1051	0.0194
23	74.0770	0.4750	4780.7100	904.9533	0.1098	0.0208
24	74.0895	0.4875	4982.1750	965.9670	0.1144	0.0222
25	74.1020	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	74.1145	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	74.1270	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	74.1395	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	74.1520	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	74.1645	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	74.1770	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	74.1895	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	74.2020	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	74.2145	0.6125	7900.6950	1761.8875	0.1814	0.0404
35	74.2270	0.6250	8265.5100	1862.9177	0.1897	0.0428
36	74.2395	0.6375	8630.3250	1968.5084	0.1981	0.0452
37	74.2520	0.6500	8995.1400	2078.6597	0.2065	0.0477
38	74.2645	0.6625	9359.9550	2193.3715	0.2149	0.0504
39	74.2770	0.6750	9724.7700	2312.6438	0.2233	0.0531
40	74.2895	0.6875	10089.5850	2436.4765	0.2316	0.0559
41	74.3020	0.7000	10454.4000	2564.8697	0.2400	0.0589
42	74.3270	0.7250	11287.4850	2836.5767	0.2591	0.0651
43	74.3520	0.7500	12120.5700	3129.1156	0.2782	0.0718
44	74.3770	0.7750	12953.6550	3442.4857	0.2974	0.0790
45	74.4020	0.8000	13786.7400	3776.6866	0.3165	0.0867
46	74.4270	0.8250	14619.8250	4131.7177	0.3356	0.0949
47	74.4520	0.8500	15452.9100	4507.5788	0.3548	0.1035
48	74.4770	0.8750	16285.9950	4904.2696	0.3739	0.1126
49	74.5020	0.9000	17119.0800	5321.7897	0.3930	0.1222
50	81.8100	8.2080	17119.0800	130428.0264	0.3930	2.9942

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| Variable storage data for node | G-23
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	74.9500	0.0000	4.3560	0.0000	0.0001	0.0000
2	74.9750	0.0250	150.8265	1.5068	0.0035	0.0000
3	75.0000	0.0500	297.2970	7.0058	0.0068	0.0002
4	75.0250	0.0750	443.7675	16.2082	0.0102	0.0004
5	75.0500	0.1000	590.2380	29.0898	0.0135	0.0007
6	75.0750	0.1250	736.7085	45.6428	0.0169	0.0010
7	75.1000	0.1500	883.1790	65.8638	0.0203	0.0015
8	75.1250	0.1750	1029.6495	89.7507	0.0236	0.0021
9	75.1500	0.2000	1176.1200	117.3026	0.0270	0.0027
10	75.1750	0.2250	1475.5950	150.3783	0.0339	0.0035
11	75.2000	0.2500	1775.0700	190.9540	0.0408	0.0044
12	75.2250	0.2750	2074.5450	239.0256	0.0476	0.0055
13	75.2500	0.3000	2374.0200	294.5906	0.0545	0.0068
14	75.2750	0.3250	2673.4950	357.6475	0.0614	0.0082
15	75.3000	0.3500	2972.9700	428.1952	0.0683	0.0098
16	75.3250	0.3750	3272.4450	506.2330	0.0751	0.0116
17	75.3500	0.4000	3571.9200	591.7602	0.0820	0.0136
18	75.3625	0.4125	3773.3850	637.6626	0.0866	0.0146
19	75.3750	0.4250	3974.8500	686.0836	0.0912	0.0158
20	75.3875	0.4375	4176.3150	737.0232	0.0959	0.0169
21	75.4000	0.4500	4377.7800	790.4814	0.1005	0.0181
22	75.4125	0.4625	4579.2450	846.4581	0.1051	0.0194
23	75.4250	0.4750	4780.7100	904.9533	0.1098	0.0208

24	75.4375	0.4875	4982.1750	965.9670	0.1144	0.0222
25	75.4500	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	75.4625	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	75.4750	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	75.4875	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	75.5000	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	75.5125	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	75.5250	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	75.5375	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	75.5500	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	75.5625	0.6125	7900.6950	1761.8875	0.1814	0.0404
35	75.5750	0.6250	8265.5100	1862.9177	0.1897	0.0428
36	75.5875	0.6375	8630.3250	1968.5084	0.1981	0.0452
37	75.6000	0.6500	8995.1400	2078.6597	0.2065	0.0477
38	75.6125	0.6625	9359.9550	2193.3715	0.2149	0.0504
39	75.6250	0.6750	9724.7700	2312.6438	0.2233	0.0531
40	75.6375	0.6875	10089.5850	2436.4765	0.2316	0.0559
41	75.6500	0.7000	10454.4000	2564.8697	0.2400	0.0589
42	75.6750	0.7250	11287.4850	2836.5767	0.2591	0.0651
43	75.7000	0.7500	12120.5700	3129.1156	0.2782	0.0718
44	75.7250	0.7750	12953.6550	3442.4857	0.2974	0.0790
45	75.7500	0.8000	13786.7400	3776.6866	0.3165	0.0867
46	75.7750	0.8250	14619.8250	4131.7177	0.3356	0.0949
47	75.8000	0.8500	15452.9100	4507.5788	0.3548	0.1035
48	75.8250	0.8750	16285.9950	4904.2696	0.3739	0.1126
49	75.8500	0.9000	17119.0800	5321.7897	0.3930	0.1222
50	81.7400	6.7900	17119.0800	106153.1709	0.3930	2.4369

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| Variable storage data for node | G-16
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	77.2000	0.0000	4.3560	0.0000	0.0001	0.0000
2	77.2250	0.0250	150.8265	1.5068	0.0035	0.0000
3	77.2500	0.0500	297.2970	7.0058	0.0068	0.0002
4	77.2750	0.0750	443.7675	16.2082	0.0102	0.0004
5	77.3000	0.1000	590.2380	29.0898	0.0135	0.0007
6	77.3250	0.1250	736.7085	45.6428	0.0169	0.0010
7	77.3500	0.1500	883.1790	65.8638	0.0203	0.0015
8	77.3750	0.1750	1029.6495	89.7507	0.0236	0.0021
9	77.4000	0.2000	1176.1200	117.3026	0.0270	0.0027
10	77.4250	0.2250	1475.5950	150.3783	0.0339	0.0035
11	77.4500	0.2500	1775.0700	190.9540	0.0408	0.0044
12	77.4750	0.2750	2074.5450	239.0256	0.0476	0.0055
13	77.5000	0.3000	2374.0200	294.5906	0.0545	0.0068
14	77.5250	0.3250	2673.4950	357.6475	0.0614	0.0082
15	77.5500	0.3500	2972.9700	428.1952	0.0683	0.0098
16	77.5750	0.3750	3272.4450	506.2330	0.0751	0.0116
17	77.6000	0.4000	3571.9200	591.7602	0.0820	0.0136
18	77.6125	0.4125	3773.3850	637.6626	0.0866	0.0146
19	77.6250	0.4250	3974.8500	686.0836	0.0912	0.0158
20	77.6375	0.4375	4176.3150	737.0232	0.0959	0.0169
21	77.6500	0.4500	4377.7800	790.4814	0.1005	0.0181
22	77.6625	0.4625	4579.2450	846.4581	0.1051	0.0194
23	77.6750	0.4750	4780.7100	904.9533	0.1098	0.0208
24	77.6875	0.4875	4982.1750	965.9670	0.1144	0.0222
25	77.7000	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	77.7125	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	77.7250	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	77.7375	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	77.7500	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	77.7625	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	77.7750	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	77.7875	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	77.8000	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	77.8125	0.6125	7900.6950	1761.8875	0.1814	0.0404
35	77.8250	0.6250	8265.5100	1862.9177	0.1897	0.0428
36	77.8375	0.6375	8630.3250	1968.5084	0.1981	0.0452
37	77.8500	0.6500	8995.1400	2078.6597	0.2065	0.0477
38	77.8625	0.6625	9359.9550	2193.3715	0.2149	0.0504
39	77.8750	0.6750	9724.7700	2312.6438	0.2233	0.0531
40	77.8875	0.6875	10089.5850	2436.4765	0.2316	0.0559
41	77.9000	0.7000	10454.4000	2564.8697	0.2400	0.0589
42	77.9250	0.7250	11287.4850	2836.5767	0.2591	0.0651
43	77.9500	0.7500	12120.5700	3129.1156	0.2782	0.0718
44	77.9750	0.7750	12953.6550	3442.4857	0.2974	0.0790
45	78.0000	0.8000	13786.7400	3776.6866	0.3165	0.0867
46	78.0250	0.8250	14619.8250	4131.7177	0.3356	0.0949
47	78.0500	0.8500	15452.9100	4507.5788	0.3548	0.1035
48	78.0750	0.8750	16285.9950	4904.2696	0.3739	0.1126
49	78.1000	0.9000	17119.0800	5321.7897	0.3930	0.1222
50	83.2300	6.0300	17119.0800	93142.6701	0.3930	2.1383

==
| FREE OUTFALL DATA (DATA GROUP I1) |
| BOUNDARY CONDITION ON DATA GROUP J1 |
==

Outfall at Junction....SYS-G-OUT has boundary condition number... 1

==
| INTERNAL CONNECTIVITY INFORMATION |
==

CONDUIT	JUNCTION	JUNCTION
FREE # 1	SYS-G-OUT	BOUNDARY

==
| Boundary Condition Information |
| Data Groups J1-J4 |
==

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| XP Note Field Summary |
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| Table E9 - JUNCTION SUMMARY STATISTICS |
| The Maximum area is only the area of the node, it |
| does not include the area of the surrounding conduits|
==

Junction Name	Ground Elevation feet	Uppermost PipeCrown Elevation feet	Maximum Junction Elevation feet	Time of Occurence Hr.	Min.	Feet of Surcharge at Max Elevation	Freeboard of node feet	Maximum Junction Area ft^2	Maximum Gutter Depth feet	Maximum Gutter Width feet	Maximum Gutter Velocity ft/s
G-OUT	82.0200	75.5700	84.4851	18	23	8.9151	0.0000	58820.722	0.0000	0.0000	0.0000
MH-G1	82.0900	78.2690	84.5074	18	40	6.2384	0.0000	56085.602	0.0000	0.0000	0.0000
G-7	81.8300	78.6500	84.5122	18	40	5.8622	0.0000	17119.080	0.0000	0.0000	0.0000

G-8	81.8800	78.3860	84.5102	18	41	6.1242	0.0000	69379.802	0.0000	0.0000	0.0000
MH-G2	81.7600	77.8170	84.5399	18	43	6.7229	0.0000	80590.614	0.0000	0.0000	0.0000
G-6	82.2900	78.9850	84.5148	18	40	5.5298	0.0000	46259.442	0.0000	0.0000	0.0000
G-9	81.7300	78.5500	84.5136	18	40	5.9536	0.0000	17119.080	0.0000	0.0000	0.0000
G-22	81.8100	77.6020	84.5596	18	38	6.9576	0.0000	17119.080	0.0000	0.0000	0.0000
G-23	81.7400	77.9500	84.5416	18	44	6.5916	0.0000	17119.080	0.0000	0.0000	0.0000
G-5	82.7900	79.2650	84.5161	18	42	5.2511	0.0000	28094.403	0.0000	0.0000	0.0000
G-10	81.9600	78.7590	84.5170	18	38	5.7580	0.0000	64484.011	0.0000	0.0000	0.0000
G-21	81.8400	77.7750	84.5678	18	36	6.7928	0.0000	76495.610	0.0000	0.0000	0.0000
G-24	81.7100	78.0870	84.5447	18	45	6.4577	0.0000	85123.291	0.0000	0.0000	0.0000
G-4	83.4200	79.6150	84.5176	18	40	4.9026	0.0000	14985.181	0.0000	0.0000	0.0000
G-12	82.9400	79.3070	84.5225	18	34	5.2155	0.0000	24335.895	0.0000	0.0000	0.0000
G-20	82.5300	78.3830	84.5933	18	18	6.2103	0.0000	39359.199	0.0000	0.0000	0.0000
G-25	81.8600	78.4370	84.5499	18	47	6.1129	0.0000	73649.698	0.0000	0.0000	0.0000
G-3	84.2900	80.1050	84.5180	18	42	4.4130	0.0000	6280.4981	0.0000	0.0000	0.0000
G-13	83.9600	79.8810	84.5284	18	27	4.6474	0.0000	8827.3988	0.0000	0.0000	0.0000
G-19	83.2800	78.8030	84.6356	17	59	5.8326	0.0000	19394.654	0.0000	0.0000	0.0000
G-26	82.3900	78.7310	84.5510	18	50	5.8200	0.0000	43397.057	0.0000	0.0000	0.0000
G-18	83.5500	79.9440	84.7472	17	26	4.8032	0.0000	16554.488	0.0000	0.0000	0.0000
G-16	83.2300	80.2000	84.7861	17	20	4.5861	0.0000	17119.080	0.0000	0.0000	0.0000
G-15	84.0500	80.5530	84.8297	17	12	4.2767	0.0000	10904.393	0.0000	0.0000	0.0000
MH-G3	82.9200	75.2700	84.4722	18	20	9.2022	0.0000	23609.211	0.0000	0.0000	0.0000
MH-G4	82.8200	75.0100	84.2428	18	33	9.2328	0.0000	20744.184	0.0000	0.0000	0.0000
MH-G5	81.6200	74.7100	84.1441	18	32	9.4341	0.0000	62397.697	0.0000	0.0000	0.0000
SYS-G-OUT	81.6200	74.6100	84.1000	18	29	9.4900	0.0000	59706.322	0.0000	0.0000	0.0000

Table E10 - CONDUIT SUMMARY STATISTICS

Note: The peak flow may be less than the design flow and the conduit may still surcharge because of the downstream boundary conditions.

* denotes an open conduit that has been overtopped this is a potential source of severe errors

Conduit Name	Design Flow (cfs)	Conduit Design Velocity (ft/s)	Maximum Vertical Depth (in)	Maximum Computed Flow (cfs)	Time of Occurence Hr.	Time of Occurence Min.	Maximum Computed Velocity (ft/s)	Time of Occurence Hr.	Time of Occurence Min.	Ratio of Max. to Design Flow	Maximum Water Elev at Pipe Ends Upstream (ft)	Maximum Water Elev at Pipe Ends Dwnstrm (ft)	Ratio d/D US	Ratio d/D DS
L_L-MH-G1	189.4623	7.9746	66.0000	132.7399	15	54	5.5582	15	54	0.7006	84.5074	84.4851	2.384	2.621
L_L-G-7	21.7080	4.4223	30.0000	19.3675	16	0	3.9127	16	0	0.8922	84.5122	84.5074	3.345	3.522
L_L-G-8	35.2849	4.9918	36.0000	37.7275	15	59	5.3008	15	59	1.0692	84.5102	84.5074	3.041	3.079
L_L-MH-G2	104.0809	6.5442	54.0000	86.6770	15	51	5.4165	15	51	0.8328	84.5399	84.5074	2.631	2.811
L_L-G-6	21.7003	4.4208	30.0000	16.3230	16	4	3.2970	16	4	0.7522	84.5148	84.5122	3.212	3.345
L_L-G-9	35.2828	4.9915	36.0000	35.9178	15	59	5.0463	15	59	1.0180	84.5136	84.5102	2.988	3.041
L_L-G-22	76.0065	6.0484	48.0000	66.8727	15	51	5.2864	15	51	0.8798	84.5596	84.5399	2.739	2.834
L_L-G-23	35.3243	4.9974	36.0000	21.5357	15	53	3.0229	15	53	0.6097	84.5416	84.5399	3.197	3.241
L_L-G-5	21.7042	4.4215	30.0000	14.1960	16	15	2.8664	16	15	0.6541	84.5161	84.5148	3.100	3.212
L_L-G-10	35.3242	4.9974	36.0000	30.9164	16	18	4.3367	16	18	0.8752	84.5170	84.5136	2.919	2.988
L_L-G-21	75.9626	6.0449	48.0000	61.9418	15	51	4.8971	15	51	0.8154	84.5678	84.5596	2.698	2.739
L_L-G-24	21.6919	4.4190	30.0000	16.5889	15	53	3.3483	15	53	0.7647	84.5447	84.5416	3.583	3.637
L_L-G-4	11.9706	3.8104	24.0000	9.9660	16	15	3.4374	15	37	0.8325	84.5176	84.5161	3.451	3.626
L_L-G-12	21.7041	4.4215	30.0000	22.2143	16	8	4.4840	16	8	1.0235	84.5225	84.5170	3.086	3.303
L_L-G-20	76.0056	6.0483	48.0000	57.7708	15	57	4.5660	15	57	0.7601	84.5933	84.5678	2.565	2.698
L_L-G-25	21.7042	4.4215	30.0000	12.6659	15	55	2.5573	15	55	0.5836	84.5499	84.5447	3.445	3.583
L_L-G-3	11.9707	3.8104	24.0000	15.2632	23	1	4.7966	23	1	1.2750	84.5180	84.5176	3.207	3.451
L_L-G-13	11.9744	3.8116	24.0000	15.3812	23	38	4.8355	23	38	1.2845	84.5284	84.5225	3.324	3.608
L_L-G-19	53.2638	5.5361	42.0000	50.8947	15	59	5.2499	15	59	0.9555	84.6356	84.5933	2.666	2.774
L_L-G-26	11.9707	3.8104	24.0000	15.4209	27	46	4.8530	27	46	1.2882	84.5510	84.5499	3.910	4.056
L_L-G-18	53.2394	5.5326	42.0000	38.5630	15	59	3.9802	15	59	0.7243	84.7472	84.6356	2.372	2.666
L_L-G-16	35.2778	4.9908	36.0000	28.3389	16	1	5.1976	15	36	0.8033	84.7861	84.7472	2.529	2.601
L_L-G-15	21.7048	4.4217	30.0000	25.7274	22	54	5.1950	22	54	1.1853	84.8297	84.7861	2.711	2.834
L_L-G-OUT	106.2095	3.7564	72.0000	132.7021	15	54	4.6696	15	54	1.2494	84.4851	84.4722	2.486	2.534
L_L-MH-G3	117.4580	3.5397	78.0000	299.3245	16	0	8.9793	16	0	2.5484	84.4722	84.2428	2.416	2.420
L_L-MH-G4	189.3467	5.7061	78.0000	299.2881	16	0	8.9868	16	0	1.5806	84.2428	84.1441	2.420	2.451
L_L-MH-G5	165.7910	4.9963	78.0000	299.2548	16	0	8.9889	16	0	1.8050	84.1441	84.1000	2.451	2.460
FREE # 1	Undefnd	Undefnd	Undefn	299.2550	16	0								

Table E15 - SPREADSHEET INFO LIST

Conduit Flow and Junction Depth Information for use in spreadsheets. The maximum values in this table are the true maximum values because they sample every time step. The values in the review results may only be the maximum of a subset of all the time steps in the run.

Note: These flows are only the flows in a single barrel.

Conduit Name	Maximum Flow (cfs)	Total Flow (ft^3)	Maximum Velocity (ft/s)	Maximum Volume (ft^3)	##	Junction Name	Invert Elevation (ft)	Maximum Elevation (ft)
L_L-MH-G1	132.7399	1526914.527	5.5582	10234.3988	##	G-OUT	69.5700	84.4851
L_L-G-7	19.3675	135236.4836	3.9127	818.8005	##	MH-G1	71.3940	84.5074
L_L-G-8	37.7275	353109.8868	5.3008	309.7893	##	G-7	76.1500	84.5122
L_L-MH-G2	86.6770	1033644.983	5.4165	4991.3040	##	G-8	75.3860	84.5102
L_L-G-6	16.3230	114338.9547	3.2970	615.8979	##	MH-G2	72.7020	84.5399
L_L-G-9	35.9178	338271.1452	5.0463	434.2875	##	G-6	76.4850	84.5148
L_L-G-22	66.8727	750893.9498	5.2864	1882.0633	##	G-9	75.5500	84.5136
L_L-G-23	21.5357	276346.1298	3.0229	351.3678	##	G-22	73.6020	84.5596
L_L-G-5	14.1960	97295.5970	2.8664	514.5948	##	G-23	74.9500	84.5416
L_L-G-10	30.9164	292514.6784	4.3367	552.1536	##	G-5	76.7650	84.5161
L_L-G-21	61.9418	704681.3178	4.8971	814.9337	##	G-10	75.7590	84.5170
L_L-G-24	16.5889	229379.6983	3.3483	252.0691	##	G-21	73.7750	84.5678
L_L-G-4	9.9660	76436.9862	3.4374	410.5643	##	G-24	75.5870	84.5447
L_L-G-12	22.2143	169147.3428	4.4840	999.0700	##	G-4	77.6150	84.5176
L_L-G-20	57.7708	609212.7171	4.5660	2625.5432	##	G-12	76.8070	84.5225
L_L-G-25	12.6659	187247.6365	2.5573	643.2435	##	G-20	74.3330	84.5933
L_L-G-3	15.2632	47063.9976	4.7966	568.5819	##	G-25	75.9370	84.5499
L_L-G-13	15.3812	90248.9614	4.8355	661.3503	##	G-3	78.1050	84.5180
L_L-G-19	50.8947	511435.9386	5.2499	1511.4260	##	G-13	77.8810	84.5284
L_L-G-26	15.4209	78261.5459	4.8530	345.8008	##	G-19	75.3030	84.6356
L_L-G-18	38.5630	373413.5274	3.9802	4013.7839	##	G-26	76.7310	84.5510
L_L-G-16	28.3389	254947.5752	5.1976	678.1042	##	G-18	76.4440	84.7472

L_L-G-15	25.7274	143313.4677	5.1950	648.7239	##	G-16	77.2000	84.7861
L_L-G-OUT	132.7021	1530546.938	4.6696	14138.5941	##	G-15	78.0530	84.8297
L_L-MH-G3	299.3245	4212743.949	8.9793	18019.4622	##	MH-G3	68.7700	84.4722
L_L-MH-G4	299.2881	4213382.786	8.9868	8000.9195	##	MH-G4	68.5100	84.2428
L_L-MH-G5	299.2548	4216034.861	8.9889	3478.6607	##	MH-G5	68.2100	84.1441
FREE # 1	299.2550	4216085.413	0.0000	0.0000	##	SYS-G-OUT	68.1100	84.1000

Table E15a - SPREADSHEET REACH LIST
Peak flow and Total Flow listed by Reach or those conduits or diversions having the same upstream and downstream nodes.

Upstream Node	Downstream Node	Maximum Flow (cfs)	Total Flow (ft^3)
MH-G1	G-OUT	132.7399	1526914.53
G-7	MH-G1	19.3675	135236.484
G-8	MH-G1	37.7275	353109.887
MH-G2	MH-G1	86.6770	1033644.98
G-6	G-7	16.3230	114338.955
G-9	G-8	35.9178	338271.145
G-22	MH-G2	66.8727	750893.950
G-23	MH-G2	21.5357	276346.130
G-5	G-6	14.1960	97295.5970
G-10	G-9	30.9164	292514.678
G-21	G-22	61.9418	704681.318
G-24	G-23	16.5889	229379.698
G-4	G-5	9.9660	76436.9862
G-12	G-10	22.2143	169147.343
G-20	G-21	57.7708	609212.717
G-25	G-24	12.6659	187247.637
G-3	G-4	15.2632	47063.9976
G-13	G-12	15.3812	90248.9614
G-19	G-20	50.8947	511435.939
G-26	G-25	15.4209	78261.5459
G-18	G-19	38.5630	373413.527
G-16	G-18	28.3389	254947.575
G-15	G-16	25.7274	143313.468
G-OUT	MH-G3	132.7021	1530546.94
MH-G3	MH-G4	299.3245	4212743.95
MH-G4	MH-G5	299.2881	4213382.79
MH-G5	SYS-G-OUT	299.2548	4216034.86

Table E19 - Junction Inflow & Outflow Listing
Units are either ft^3 or m^3 depending on the units in your model.

Junction Name	Constant Inflow to Node	User Inflow to Node	Interface Inflow to Node	DWF Inlow to Node	Inflow through Outfall	RNF Layer Inflow to Node	Outflow from Node	Evaporation from Node	Inflow from 2D Layer
G-7	0.0000	19890.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
G-8	0.0000	9558.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
G-6	0.0000	16227.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
G-9	0.0000	44946.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
G-22	0.0000	46647.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
G-23	0.0000	44757.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
G-5	0.0000	20277.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
G-10	0.0000	120280.5050	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
G-21	0.0000	94522.5150	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
G-24	0.0000	36252.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
G-4	0.0000	28422.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
G-12	0.0000	76977.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
G-20	0.0000	97798.5150	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
G-25	0.0000	103554.0100	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
G-3	0.0000	19530.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
G-13	0.0000	65610.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
G-19	0.0000	137992.5350	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
G-26	0.0000	46035.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
G-18	0.0000	117117.0100	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	

G-16	0.0000	112477.5050	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
G-15	0.0000	113287.5050	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
MH-G3	0.0000	2.6784E+06	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
SYS-G-OUT	0.0000	0.0000	0.0000	0.0000	48330.9270	0.0000	4.2644E+06	0.0000

Table E20 - Junction Flooding and Volume Listing. The maximum volume is the total volume in the node including the volume in the flooded storage area. This is the max volume at any time. The volume in the flooded storage area is the total volume above the ground elevation, where the flooded pond storage area starts. The fourth column is instantaneous, the fifth is the sum of the flooded volume over the entire simulation. Units are either ft^3 or m^3 depending on the units.

Junction Name	Surcharged Time (min)	Flooded Time(min)	Out of 1D-System (Flooded Volume)	Maximum Volume	Passed to 2D cell OR Volume Stored in allowed Flood Pond of 1D-System
G-OUT	1083.8500	650.3000	0.0000	53977.1683	59328.8336
MH-G1	995.4167	626.6167	0.0000	51220.0074	51412.6247
G-7	978.6667	707.1333	0.0000	35902.0921	38083.1523
G-8	990.1500	691.1667	0.0000	64461.4056	66647.9472
MH-G2	1013.7500	726.1250	0.0000	75704.4367	79857.8909
G-6	961.5500	586.4667	0.0000	41332.3873	43055.2115
G-9	983.0667	727.5917	0.0000	37645.0030	39928.3326
G-22	1020.7333	717.9250	0.0000	37088.4039	40606.6846
G-23	1008.3000	729.5083	0.0000	37960.3779	40097.8929
G-5	946.0667	457.3917	0.0000	23170.1134	24608.9709
G-10	973.1000	674.2500	0.0000	59561.9330	64301.6305
G-21	1015.8333	717.6917	0.0000	71596.9548	80180.3811
G-24	1003.3667	740.1750	0.0000	80200.2323	90137.4177
G-4	925.6833	396.9000	0.0000	10058.1266	30096.2452
G-12	943.9500	467.5667	0.0000	19412.9618	37558.7737
G-20	992.7333	534.2167	0.0000	34462.2027	40413.8422
G-25	989.2167	726.8417	0.0000	68724.1262	96779.6750
G-3	894.6417	294.6500	0.0000	1358.2188	7387.4202
G-13	908.9250	404.7333	0.0000	3903.7875	9197.2100
G-19	973.6333	428.0333	0.0000	14494.8934	19039.5532
G-26	976.1833	682.0833	0.0000	38468.1678	50023.4893
G-18	908.4833	424.8167	0.0000	11643.7816	19927.5133
G-16	891.5000	444.4833	0.0000	16629.9987	44284.4231
G-15	863.5083	402.7500	0.0000	5979.7513	14718.0754
MH-G3	1095.2000	426.7917	0.0000	18787.0203	20740.1219
MH-G4	1105.4000	414.9667	0.0000	15924.0032	19595.5128
MH-G5	1119.2333	706.8000	0.0000	57566.2073	64518.1295
SYS-G-OUT	1123.9333	0.0000	0.0000	54876.0887	8.3294

Simulation Specific Information

Number of Input Conduits.....	27	Number of Simulated Conduits.....	28
Number of Natural Channels.....	0	Number of Junctions.....	28
Number of Storage Junctions.....	5	Number of Weirs.....	0
Number of Orifices.....	0	Number of Pumps.....	0
Number of Free Outfalls.....	1	Number of Tide Gate Outfalls.....	0

Average % Change in Junction or Conduit is defined as:
Conduit % Change ==> 100.0 (Q(n+1) - Q(n)) / Qfull
Junction % Change ==> 100.0 (Y(n+1) - Y(n)) / Yfull

The Conduit with the largest average change was..	L_L-G-26	with	1.700 percent
The Junction with the largest average change was.	G-13	with	0.175 percent
The Conduit with the largest sinuosity was.....	L_L-G-26	with	319.140

Table E21. Continuity balance at the end of the simulation
Junction Inflow, Outflow or Street Flooding
Error = Inflow + Initial Volume - Outflow - Final Volume

Inflow Junction	Inflow Volume,ft^3	Average Inflow, cfs
G-7	19890.0002	0.1151
G-8	9558.0001	0.0553
G-6	16227.0002	0.0939
G-9	44946.0038	0.2601
G-22	46647.0031	0.2699
G-23	44757.0033	0.2590

G-5	20277.0002	0.1173
G-10	120280.5206	0.6961
G-21	94522.5367	0.5470
G-24	36252.0041	0.2098
G-4	28422.0008	0.1645
G-12	76977.0051	0.4455
G-20	97798.5409	0.5660
G-25	103554.0297	0.5993
G-3	19530.0002	0.1130
G-13	65610.0059	0.3797
G-19	137992.5794	0.7986
G-26	46035.0033	0.2664
G-18	117117.0323	0.6778
G-16	112477.5182	0.6509
G-15	113287.5182	0.6556
MH-G3	2.67844E+06	15.5002
SYS-G-OUT	48330.9270	0.2797
SYS-G-OUT	-4.264E+06	-24.6783

Outflow Junction	Outflow Volume,ft^3	Average Outflow, cfs
SYS-G-OUT	4.26442E+06	24.6783

==

Initial system volume	=	0.0000 Cu Ft
Total system inflow volume	=	4.098927E+06 Cu Ft
Inflow + Initial volume	=	4.098927E+06 Cu Ft

==

Total system outflow	=	4.264416E+06 Cu Ft
Volume left in system	=	1942.6012 Cu Ft
Evaporation	=	0.0000 Cu Ft
Outflow + Final Volume	=	4.266359E+06 Cu Ft

==

===
| Total Model Continuity Error |
| Error in Continuity, Percent = -4.0848 |
| Error in Continuity, ft^3 = -167432.234 |
| + Error means a continuity loss, - a gain |
===

##
Table E22. Numerical Model judgement section
##

Your overall error was -4.0848 percent

Worst nodal error was in node G-26 with -26.0452 percent

Of the total inflow this loss was 0.7898 percent

Your overall continuity error was Good

Excellent Efficiency

Efficiency of the simulation 1.73

Most Number of Non Convergences at one Node 0.

Total Number Non Convergences at all Nodes 0.

Total Number of Nodes with Non Convergences 0.

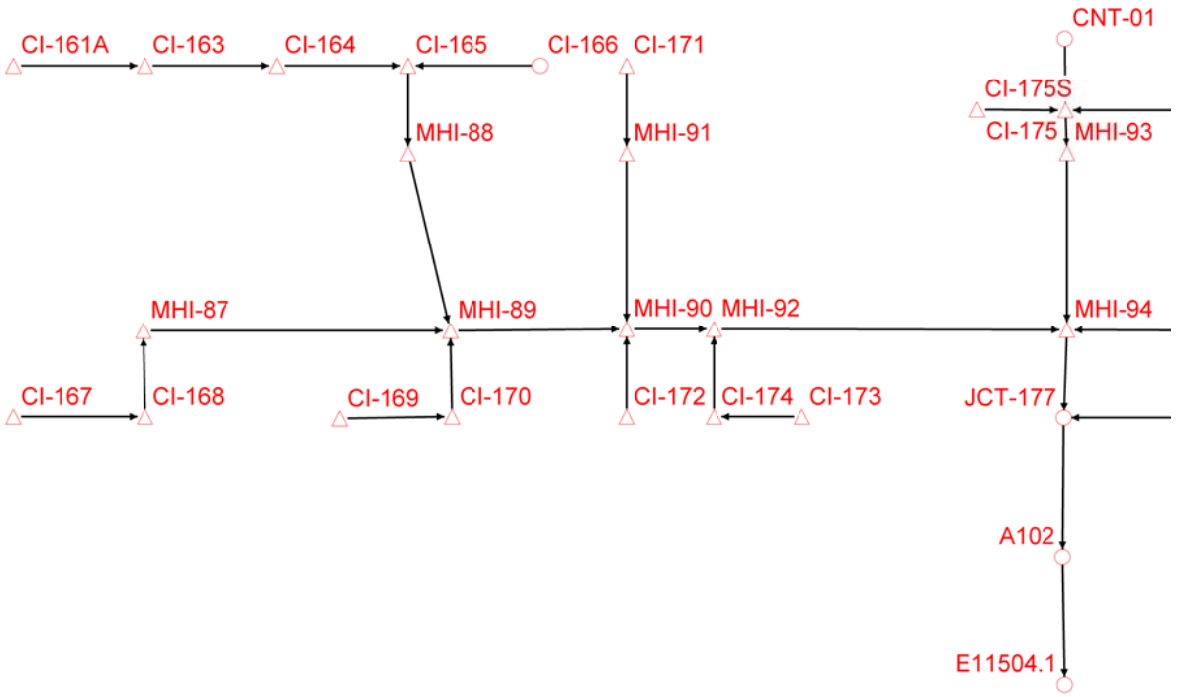
===> Hydraulic model simulation ended normally.
===> XP-SWMM Simulation ended normally.

===> Your input file was named : P:\PROJECTS\290PMC\PHASEII\DRA\Models\SWMM\Outfalls 9-16\SWMM\Report 6-2011\Mitigated\US290_Mit_SegB_SysG.DAT
===> Your output file was named : P:\PROJECTS\290PMC\PHASEII\DRA\Models\SWMM\Outfalls 9-16\SWMM\Report 6-2011\Mitigated\US290_Mit_SegB_SysG.out

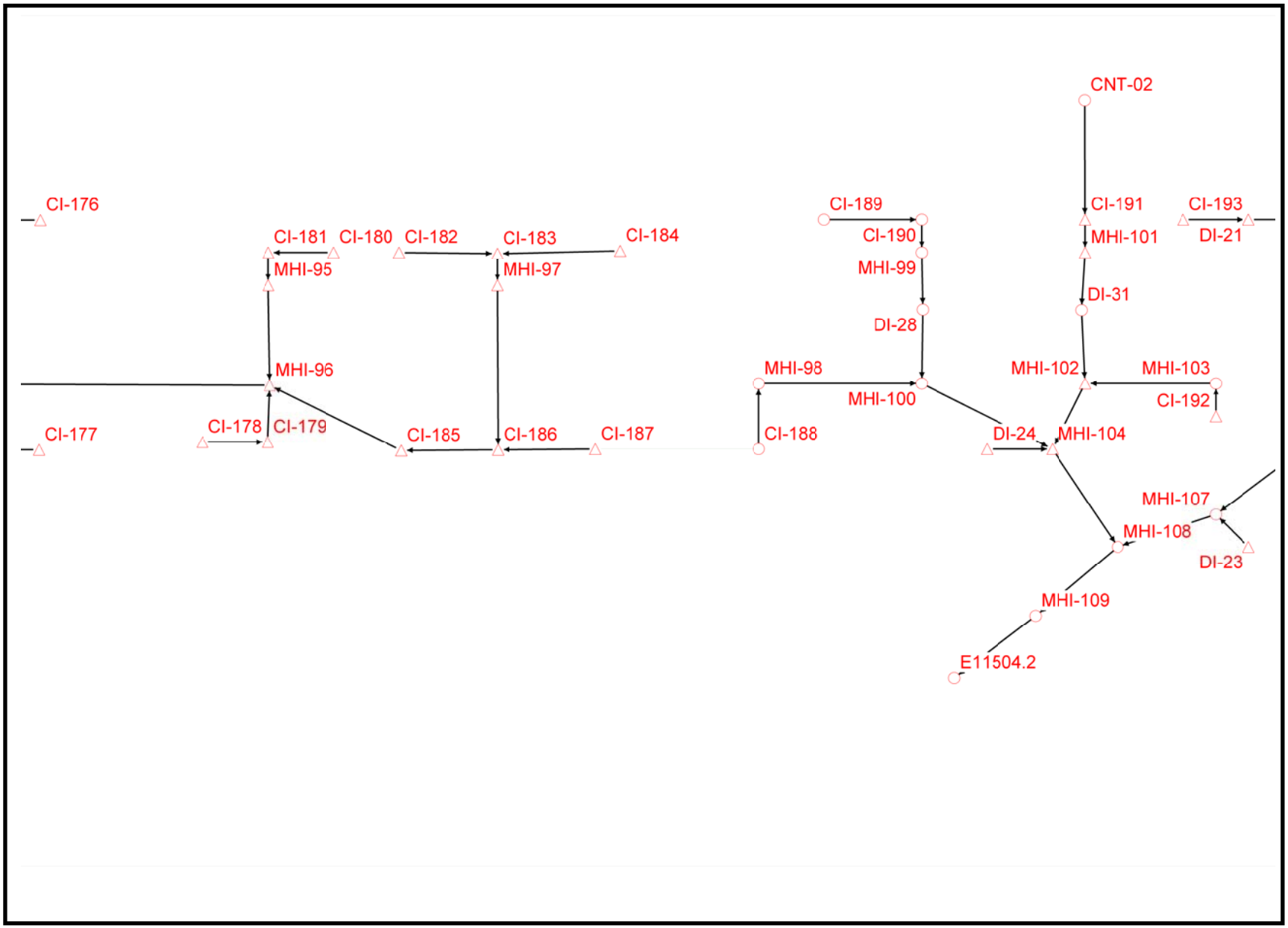
==
| SWMM Simulation Date and Time Summary |
==
| Starting Date... June 24, 2011 Time... 15:43:49:92 |
| Ending Date... June 24, 2011 Time... 15:53:31: 4 |
| Elapsed Time... 9.68533 minutes or 581.12000 seconds |
==

OUTFALLS 17-19
SWMM OUTPUT
100 YR- EXISTING CONDITIONS

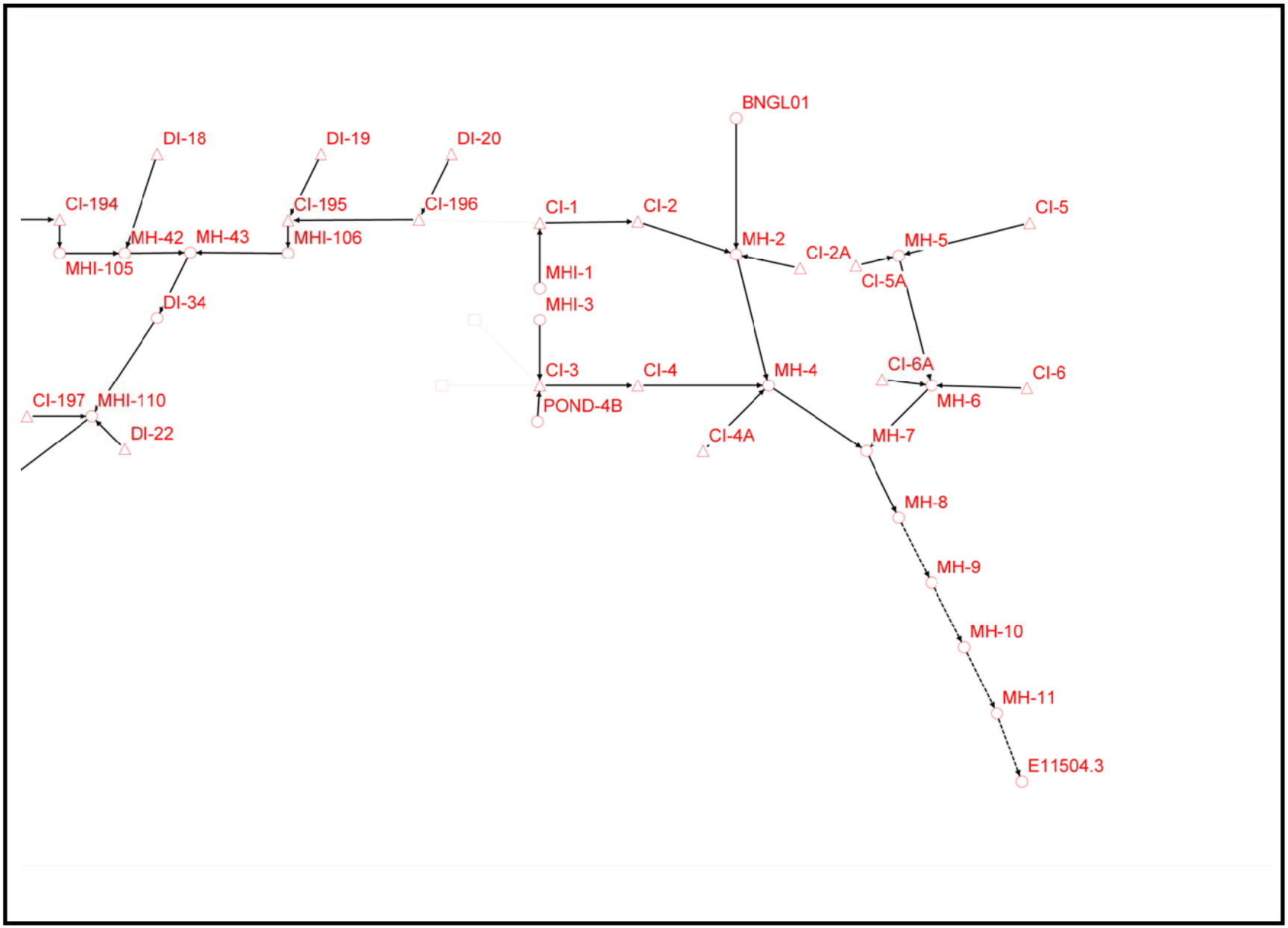
OUTFALLS 17, 18, & 19
EXISTING SWMM LAYOUT



OUTFALLS 17, 18, & 19
EXISTING SWMM LAYOUT



OUTFALLS 17, 18, & 19
EXISTING SWMM LAYOUT



```
 Current Directory:   C:\XPS\xpstorm
 Engine Name: C:\XPS\xpstorm\SWMMEN~1.EXE


 Input File : \SWMM\Segment A\Existing\US290_SegA_Sys_BNGLHOL_Ext100-8-31-09.XP

          *================================================*
          |                    xpswmm                      |
          |     Storm and Wastewater Management Model      |
          |           Interface Version: 10.52             |
          |              Engine Version: 10.54             |
          |================================================|
          |                                                |
          |                Developed by                    |
          |                                                |
          |                XP Software                     |
          |                                                |
          |================================================|
          |      XP Software       November, 2006          |
          |       Data File Version --->   11.9            |
          |       Serial Number: 66-1000-0581              |
          |                      HNTB                      |
          *================================================*

Engine Name: C:\XPS\xpstorm\SWMMEN~1.EXE


*=================================================*
|       Input and Output file names by Layer      |
*=================================================*

 Input File  to Layer #     1 JOT.US
 Output File to Layer #     1 JOT.US

*=========================================================*
|   Special command line arguments in XP-SWMM2000. This  |
|   now includes program defaults. $Keywords are the program|
|   defaults.  Other Keywords are from the SWMMCOM.CFG file.|
|   or the command line or any cfg file on the command line.|
|   Examples include these in the file xpswm.bat under the |
|   section :solve or in the windows version XPSWMM32 in the|
|   file solve.bat                                        |
|                                                         |
|   Note: the cfg file should be in the subdirectory swmxp |
|         or defined by the set variable in the xpswm.bat |
|         file.  Some examples of the command lines possible|
|         are shown below:                                |
|                                                         |
|   swmmd swmmcom.cfg                                     |
|   swmmd my.cfg                                          |
|   swmmd nokeys nconv5 perv extranwq                     |
*=========================================================*

 $powerstation                        0.0000         1         2
 $perv                                0.0000         0         4
 $oldegg                              0.0000         0         7
 $as                                  0.0000         0        11
 $noflat                              0.0000         0        21
 $oldomega                            0.0000         0        24
 $oldvol                              0.0000         1        28
 $implicit                            0.0000         1        29
 $oldhot                              0.0000         1        31
 $oldscs                              0.0000         0        33
 $flood                               0.0000         1        40
 $nokeys                              0.0000         0        42
 $pzero                               0.0000         0        55
 $oldvol2                             0.0000         2        59
 $storage2                            0.0000         3        62
 $oldhot1                             0.0000         1        63
 $pumpwt                              0.0000         1        70
 $ecloss                              0.0000         1        77
 $exout                               0.0000         0        97
 $spatial = 0.90                      0.9000         5       124
 $djref = -1.0                       -0.1000         3       143
 $weirlen = 50                       50.0000         1       153
 $oldbnd                              0.0000         1       154
 $nogrelev                            0.0000         1       161
 $ncmid                               0.0000         0       164
 ZREF=74                             74.0000         1       199
 $new_nl_97                           0.0000         2       290
 $best97                              0.0000         1       294
 $newbound                            0.0000         1       295
 $q_tol = 0.01                        0.0001         1       316
 $new_storage                         0.0000         1       322
 $old_iteration                       0.0000         1       333
 $minlen=30.0                        30.0000         1       346
 $review_elevation                    0.0000         1       383
 $use_half_volume                     0.0000         1       385
 $min_ts = 0.5                        0.5000         1       407
 $design_restart = on                 0.0000         1       412
 $zero_value=1.e-05                   0.0000         1       415
 $relax_depth = on                    0.0000         1       427
 $saveallpts = on                     0.0000         1       434

 *=========================================================*
 | Parameter Values on the Tapes Common Block.These are the |
 | values read from the data file and dynamically allocated |
 | by the model for this simulation.                       |
 *=========================================================*

  Number of Subcatchments in the Runoff Block (NW)....     0
  Number of Channel/Pipes in the Runoff Block (NG)....     0
  Runoff Water quality constituents (NRQ).............     0
  Runoff Land Uses per Subcatchment (NLU).............     0
  Number of Elements in the Transport Block (NET).....     0
  Number of Storage Junctions in Transport (NTSE).....     0
  Number of Input Hydrographs in Transport (NTH)......     0
  Number of Elements in the Extran Block (NEE)........   107
  Number of Groundwater Subcatchments in Runoff (NGW).     0
  Number of Interface locations for all Blocks (NIE)..   107
  Number of Pumps in Extran (NEP).....................     0
  Number of Orifices in Extran (NEO)..................     0
  Number of Tide Gates/Free Outfalls in Extran (NTG)..     3
  Number of Extran Weirs (NEW)........................     0
  Number of scs hydrograph points.....................     1
  Number of Extran printout locations (NPO)...........     0
  Number of Tide elements in Extran (NTE).............     3
  Number of Natural channels (NNC)....................     0
  Number of Storage junctions in Extran (NVSE)........    64
  Number of Time history data points in Extran(NTVAL).   300
  Number of Variable storage elements in Extran (NVST)     6
  Number of Input Hydrographs in Extran (NEH).........    72
  Number of Particle sizes in Transport Block (NPS)...     0
  Number of User defined conduits (NHW)...............   107
  Number of Connecting conduits in Extran (NECC)......    20
  Number of Upstream elements in Transport (NTCC).....    10
```

```
 Number of Storage/treatment plants (NSTU)...........     1
 Number of Values for R1 lines in Transport (NR1)....     0
 Number of Nodes to be allowed for (NNOD)............   107
 Number of Plugs in a Storage Treatment Unit.........     1


#########################################################
#    Entry made to the HYDRAULIC Layer(Block) of SWMM #
#    Last Updated June,2005 by XP Software          #

    US 290/Hempstead Hwy Corridor-Drainage Impact Study
    Existing Conditions PineMont to Hollister /// 100-Year Frequency


*===========================================================*
|       HYDRAULICS TABLES IN THE OUTPUT FILE                |
|  These are the more important tables in the output file.  |
|  You can use your editor to find the table numbers,       |
|  for example: search for Table E20 to check continuity.   |
|  This output file can be imported into a Word Processor   |
|  and printed on US letter or A4 paper using portrait      |
|  mode, courier font, a size of 8 pt. and margins of 0.75  |
|                                                           |
| Table E1   - Basic Conduit Data                           |
| Table E2   - Conduit Factor Data                          |
| Table E3a  - Junction Data                                |
| Table E3b  - Junction Data                                |
| Table E4   - Conduit Connectivity Data                    |
| Table E4a  - Dry Weather Flow Data                        |
| Table E4b  - Real Time Control Data                       |
| Table E5   - Junction Time Step Limitation Summary        |
| Table E5a  - Conduit Explicit Condition Summary           |
| Table E6   - Final Model Condition                        |
| Table E7   - Iteration Summary                            |
| Table E8   - Junction Time Step Limitation Summary        |
| Table E9   - Junction  Summary  Statistics                |
| Table E10  - Conduit   Summary  Statistics                |
| Table E11  - Area assumptions used in the analysis        |
| Table E12  - Mean conduit information                     |
| Table E13  - Channel losses(H) and culvert info           |
| Table E13a - Culvert Analysis Classification              |
| Table E14  - Natural Channel Overbank Flow Information    |
| Table E14a - Natural Channel Encroachment Information     |
| Table E14b - Floodplain Mapping                           |
| Table E15  - Spreadsheet Info List                        |
| Table E15a - Spreadsheet Reach List                       |
| Table E16  - New Conduit Output Section                   |
| Table E17  - Pump Operation                               |
| Table E18  - Junction Continuity Error                    |
| Table E19  - Junction Inflow & Outflow Listing            |
| Table E20  - Junction Flooding and Volume List            |
| Table E21  - Continuity balance at simulation end         |
| Table E22  - Model Judgement Section                      |
*===========================================================*

Time Control from Hydraulics Job Control
Year.........    2007 Month.......       1
Day..........       1 Hour........       0
Minute.......       0 Second......       0


Control information for simulation
----------------------------------

Integration cycles...................      8640
Length of integration step is.......     20.00 seconds
Simulation length...................     48.00 hours
Do not create equiv. pipes(NEQUAL)..        0
Use U.S. customary units for I/O....        0
Printing starts in cycle............        1
Intermediate printout intervals of..      180 cycles
Intermediate printout intervals of..     60.00 minutes
Summary printout intervals of.......      180 cycles
Summary printout time interval of...     60.00 minutes
Hot start file parameter (REDO).....        0
Initial time........................      0.00 hours

Iteration variables: Flow Tolerance.   0.00010
                     Head Tolerance.   0.00050
    Minimum depth (m or ft).........   0.00001
    Underrelaxation parameter.......   0.85000
    Time weighting parameter........   0.85000
    Conduit roughness factor........   1.00000
    Flow adjustment factor..........   1.00000
    Initial Condition Smoothing.....         0
    Courant Time Step Factor........   1.00000
    Default Expansion/Contraction K.   0.00000
    Default Entrance/Exit K.........   0.00000
    Routing Method..................   Dynamic Wave
Default surface area of junctions...     12.57 square feet.
Minimum Junction/Conduit Depth......   0.00001 feet.
Ponding Area Coefficient............   5000.00
Ponding Area Exponent...............    1.0000
Minimum Orifice Length..............   1000.00 feet.
NJSW input hydrograph junctions.....    72
     or user defined hydrographs....

*===========================================================*
|               Flap Gate Conduit Information               |
|               ------------------------------              |
| Positive Flap Gate - Flow only allowed from the upstream  |
|                      to the downstream junction           |
| Negative Flap Gate - Flow only allowed from the           |
|                      downstream to the upstream junction  |
*===========================================================*

   Conduit   Type of Flap Gate
   -------   -----------------
E11504_2    Positive Flap Gate
E11504_1    Positive Flap Gate

*=================================================*
|          Table E1 - Conduit Data                |
*=================================================*

                                                                                                  Trapezoid
 Inp          Conduit     Length    Conduit      Area    Manning  Max Width      Depth       Side
 Num           Name         (ft)     Class     (ft^2)     Coef.    (ft)         (ft)      Slopes
---- ---------------- ---------- ---------  --------  --------  ---------      -----     -------
   1         L-CI-193    55.0000  Circular    1.7671    0.0130     1.5000     1.5000
   2          L-DI-21   102.0000  Circular    7.0686    0.0130     3.0000     3.0000
   3         L-CI-194    45.0000  Circular    7.0686    0.0130     3.0000     3.0000
   4        L-MHI-105   152.0000  Circular    7.0686    0.0130     3.0000     3.0000
   5          L-MH-42   150.0000  Circular   12.5664    0.0130     4.0000     4.0000
   6          L-MH-43    81.0000  Circular   12.5664    0.0130     4.0000     4.0000
   7        L-MHI-110   340.0000  Circular   12.5664    0.0130     4.0000     4.0000
   8        L-MHI-107   207.0000  Circular   12.5664    0.0130     4.0000     4.0000
   9        L-MHI-108   372.0000 Rectangle  35.0000    0.0130     7.0000     5.0000
```

10	E11504_2	261.0000	Rectangle	35.0000	0.0130	7.0000	5.0000
11	L-DI-20	85.0000	Circular	3.1416	0.0130	2.0000	2.0000
12	L-CI-196	256.0000	Circular	3.1416	0.0130	2.0000	2.0000
13	L-CI-195	58.0000	Circular	4.9087	0.0130	2.5000	2.5000
14	L-MHI-106	153.0000	Circular	4.9087	0.0130	2.5000	2.5000
15	L-CI-197	48.0000	Circular	1.7671	0.0130	1.5000	1.5000
16	L-DI-23	120.0000	Circular	3.1416	0.0130	2.0000	2.0000
17	L-MHI-104	225.0000	Rectangle	20.0000	0.0130	5.0000	4.0000
18	L-DI-19	86.0000	Circular	1.7671	0.0130	1.5000	1.5000
19	L-DI-18	140.0000	Circular	3.1416	0.0130	2.0000	2.0000
20	L-CI-189	149.0000	Circular	3.1416	0.0130	2.0000	2.0000
21	L-CI-190	51.0000	Circular	3.1416	0.0130	2.0000	2.0000
22	L-MHI-99	84.0000	Circular	3.1416	0.0130	2.0000	2.0000
23	L-MHI-100	258.0000	Circular	7.0686	0.0130	3.0000	3.0000
24	L-CI-191	45.0000	Circular	12.5664	0.0130	4.0000	4.0000
25	L-MHI-101	79.0000	Circular	15.9043	0.0130	4.5000	4.5000
26	L-MHI-102	237.0000	Circular	15.9043	0.0130	4.5000	4.5000
27	L-CI-188	65.0000	Circular	1.7671	0.0130	1.5000	1.5000
28	L-MHI-98	200.0000	Circular	3.1416	0.0130	2.0000	2.0000
29	L-DI-24	167.0000	Circular	1.7671	0.0130	1.5000	1.5000
30	L-CI-182	100.0000	Circular	1.7671	0.0130	1.5000	1.5000
31	L-CI-162	250.0000	Circular	1.7671	0.0130	1.5000	1.5000
32	L-CI-163	299.0000	Circular	9.6211	0.0130	3.5000	3.5000
33	L-CI-164	201.0000	Circular	9.6211	0.0130	3.5000	3.5000
34	L-CI-165	51.0000	Circular	12.5664	0.0130	4.0000	4.0000
35	L-MHI-88	191.0000	Circular	12.5664	0.0130	4.0000	4.0000
36	L-MHI-89	299.0000	Rectangle	16.0000	0.0130	4.0000	4.0000
37	L-MHI-90	200.0000	Rectangle	16.0000	0.0130	4.0000	4.0000
38	L-MHI-92	325.0000	Rectangle	20.0000	0.0130	5.0000	4.0000
39	L-MHI-94	426.0000	Circular	12.5664	0.0130	4.0000	4.0000
40	L-MHI-96	401.0000	Circular	7.0686	0.0130	3.0000	3.0000
41	L-CI-185	104.0000	Circular	7.0686	0.0130	3.0000	3.0000
42	L-CI-186	233.0000	Circular	4.9087	0.0130	2.5000	2.5000
43	L-MHI-97	42.0000	Circular	3.1416	0.0130	2.0000	2.0000
44	L-CI-183	150.0000	Circular	1.7671	0.0130	1.5000	1.5000
45	L-CI-171	50.0000	Circular	1.7671	0.0130	1.5000	1.5000
46	L-MHI-91	182.0000	Circular	1.7671	0.0130	1.5000	1.5000
47	L-CI-174	50.0000	Circular	3.1416	0.0130	2.0000	2.0000
48	L-CI-175	225.0000	Circular	9.6211	0.0130	3.5000	3.5000
49	L-CI-181	50.0000	Circular	3.1416	0.0130	2.0000	2.0000
50	L-MHI-95	182.0000	Circular	4.9087	0.0130	2.5000	2.5000
51	L-CI-168	44.0000	Circular	3.1416	0.0130	2.0000	2.0000
52	L-MHI-87	500.0000	Circular	3.1416	0.0130	2.0000	2.0000
53	L-CI-170	47.0000	Circular	3.1416	0.0130	2.0000	2.0000
54	L-CI-175s	324.0000	Circular	7.0686	0.0130	3.0000	3.0000
55	L-MHI-93	182.0000	Circular	12.5664	0.0130	4.0000	4.0000
56	L-CI-179	65.0000	Circular	1.7671	0.0130	1.5000	1.5000
57	L-CI-166	100.0000	Circular	1.7671	0.0130	1.5000	1.5000
58	Link252	275.0000	Circular	1.7671	0.0130	1.5000	1.5000
59	L-CI-169	200.0000	Circular	1.7671	0.0130	1.5000	1.5000
60	Link255	50.0000	Circular	1.7671	0.0130	1.5000	1.5000
61	Link256	100.0000	Circular	1.7671	0.0130	1.5000	1.5000
62	CI175-93	50.0000	Circular	12.5664	0.0130	4.0000	4.0000
63	NWC-175	489.0000	Circular	12.5664	0.0130	4.0000	4.0000
64	L-JCT-177	49.0000	Rectangle	40.0000	0.0130	8.0000	5.0000
65	L-CI-177	25.0000	Circular	3.1416	0.0130	2.0000	2.0000
66	Link262	100.0000	Circular	1.7671	0.0130	1.5000	1.5000
67	L-MH96	49.0000	Circular	3.1416	0.0130	2.0000	2.0000
68	Link264	150.0000	Circular	1.7671	0.0130	1.5000	1.5000
69	Link265	62.0000	Circular	1.7671	0.0130	1.5000	1.5000
70	L-DI-22	120.0000	Circular	1.7671	0.0130	1.5000	1.5000
71	Link267	187.0000	Circular	12.5664	0.0130	4.0000	4.0000
72	L-J-177	395.0000	Rectangle	40.0000	0.0130	8.0000	5.0000
73	L-DI-31	85.0000	Circular	15.9043	0.0130	4.5000	4.5000
74	L-DI-28	80.0000	Circular	3.1416	0.0130	2.0000	2.0000
75	E11504_1	221.0000	Rectangle	40.0000	0.0130	8.0000	5.0000
76	Link274	4.0000	Circular	12.5664	0.0130	4.0000	4.0000
77	MH1-CI1	40.0000	Circular	3.1416	0.0130	2.0000	2.0000
78	CI1-2	312.0000	Circular	4.9087	0.0130	2.5000	2.5000
79	CI2-MH2	208.0000	Circular	7.0686	0.0130	3.0000	3.0000
80	MH2-4	228.0000	Circular	15.9043	0.0130	4.5000	4.5000
81	MH4-7	148.0000	Circular	19.6350	0.0130	5.0000	5.0000
82	MH7-8	140.0000	Circular	23.7583	0.0130	5.5000	5.5000
83	CI5-MH5	92.0000	Circular	3.1416	0.0130	2.0000	2.0000
84	MH5-6	212.0000	Circular	3.1416	0.0130	2.0000	2.0000
85	MH6-7	100.0000	Circular	3.1416	0.0130	2.0000	2.0000
86	CI2A-MH2	65.9000	Circular	1.7671	0.0130	1.5000	1.5000
87	CI5A-MH5	46.6000	Circular	1.7671	0.0130	1.5000	1.5000
88	CI6-MH6	120.0000	Circular	3.1416	0.0130	2.0000	2.0000
89	CI6A-MH6	28.2000	Circular	1.7671	0.0130	1.5000	1.5000
90	MH3-CI3	44.0000	Circular	3.1416	0.0130	2.0000	2.0000
91	CI3-4	376.0000	Circular	3.1416	0.0130	2.0000	2.0000
92	CI4-MH4	172.0000	Circular	7.0686	0.0130	3.0000	3.0000
93	CI4A-MH4	15.8000	Circular	1.7671	0.0130	1.5000	1.5000
94	BNGL-2	63.4000	Circular	12.5664	0.0130	4.0000	4.0000
95	Link277	61.0000	Circular	3.1416	0.0130	2.0000	2.0000
96	Link278	200.0000	Circular	3.1416	0.0140	2.0000	2.0000
97	947.1	180.0000	Circular	23.7583	0.0130	5.5000	5.5000
98	24"rcp	49.0700	Circular	3.1416	0.0130	2.0000	2.0000
99	948.1	340.0000	Circular	23.7583	0.0130	5.5000	5.5000
100	948.2	340.0000	Circular	7.0686	0.0130	3.0000	3.0000
101	952.1	420.0000	Circular	23.7583	0.0130	5.5000	5.5000
102	952.2	420.0000	Circular	7.0686	0.0130	3.0000	3.0000
103	953.1	210.0000	Circular	23.7583	0.0130	5.5000	5.5000
104	953.2	210.0000	Circular	7.0686	0.0130	3.0000	3.0000

Total length of all conduits .... 17076.9700 feet

==
| Table E2 - Conduit Factor Data |
==

Conduit Name	Number of Barrels	Entrance Loss Coef	Exit Loss Coef	Exp/Contc Coefficnt	Time Weighting Parameter	Low Flow Roughness Factor n	Depth at Which Changes	Flow Routing
E11504_2	1.0000	0.0000	0.5000	0.0000	0.8500	1.0000	0.0000	Standard - Dynamic Wave

==
| If there are messages about (sqrt(g*d)*dt/dx), or |
| the sqrt(wave celerity)*time step/conduit length |
| in the output file all it means is that the |
| program will lower the internal time step to |
| satisfy this condition (explicit condition). |
| You control the actual internal time step by |
| using the minimum courant time step factor in the |
| HYDRAULICS job control. The message put in words |
| states that the smallest conduit with the fastest |
| velocity will control the time step selection. |
| You have further control by using the modify |
| conduit option in the HYDRAULICS Job Control. |
==

Conduit Name	Courant Ratio	
L-CI-193	2.53	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-DI-21	1.93	===> Warning ! (sqrt(wave celerity)*time step/conduit length)

```
       L-CI-194        4.37  ===> Warning ! (sqrt(wave celerity)*time step/conduit length)
      L-MHI-105        1.29  ===> Warning ! (sqrt(wave celerity)*time step/conduit length)
        L-MH-42        1.51  ===> Warning ! (sqrt(wave celerity)*time step/conduit length)
        L-MH-43        2.80  ===> Warning ! (sqrt(wave celerity)*time step/conduit length)
      L-MHI-110        0.67
      L-MHI-107        1.10  ===> Warning ! (sqrt(wave celerity)*time step/conduit length)
      L-MHI-108        0.68
       E11504_2        0.97
        L-DI-20        1.89  ===> Warning ! (sqrt(wave celerity)*time step/conduit length)
       L-CI-196        0.63
       L-CI-195        3.09  ===> Warning ! (sqrt(wave celerity)*time step/conduit length)
      L-MHI-106        1.17  ===> Warning ! (sqrt(wave celerity)*time step/conduit length)
       L-CI-197        2.90  ===> Warning ! (sqrt(wave celerity)*time step/conduit length)
        L-DI-23        1.34  ===> Warning ! (sqrt(wave celerity)*time step/conduit length)
      L-MHI-104        1.01  ===> Warning ! (sqrt(wave celerity)*time step/conduit length)
        L-DI-19        1.62  ===> Warning ! (sqrt(wave celerity)*time step/conduit length)
        L-DI-18        1.15  ===> Warning ! (sqrt(wave celerity)*time step/conduit length)
       L-CI-189        1.08  ===> Warning ! (sqrt(wave celerity)*time step/conduit length)
       L-CI-190        3.15  ===> Warning ! (sqrt(wave celerity)*time step/conduit length)
       L-MHI-99        1.91  ===> Warning ! (sqrt(wave celerity)*time step/conduit length)
      L-MHI-100        0.76
       L-CI-191        5.04  ===> Warning ! (sqrt(wave celerity)*time step/conduit length)
      L-MHI-101        3.05  ===> Warning ! (sqrt(wave celerity)*time step/conduit length)
      L-MHI-102        1.02  ===> Warning ! (sqrt(wave celerity)*time step/conduit length)
       L-CI-188        2.14  ===> Warning ! (sqrt(wave celerity)*time step/conduit length)
       L-MHI-98        0.80
        L-DI-24        0.83
       L-CI-182        1.39  ===> Warning ! (sqrt(wave celerity)*time step/conduit length)
       L-CI-162        0.56
       L-CI-163        0.71
       L-CI-164        1.06  ===> Warning ! (sqrt(wave celerity)*time step/conduit length)
       L-CI-165        4.45  ===> Warning ! (sqrt(wave celerity)*time step/conduit length)
       L-MHI-88        1.19  ===> Warning ! (sqrt(wave celerity)*time step/conduit length)
       L-MHI-89        0.76
       L-MHI-90        1.13  ===> Warning ! (sqrt(wave celerity)*time step/conduit length)
       L-MHI-92        0.70
       L-MHI-94        0.53
       L-MHI-96        0.49
       L-CI-185        1.89  ===> Warning ! (sqrt(wave celerity)*time step/conduit length)
       L-CI-186        0.77
       L-MHI-97        3.82  ===> Warning ! (sqrt(wave celerity)*time step/conduit length)
       L-CI-183        0.93
       L-CI-171        2.78  ===> Warning ! (sqrt(wave celerity)*time step/conduit length)
       L-MHI-91        0.76
       L-CI-174        3.21  ===> Warning ! (sqrt(wave celerity)*time step/conduit length)
       L-CI-175        0.94
       L-CI-181        3.21  ===> Warning ! (sqrt(wave celerity)*time step/conduit length)
       L-MHI-95        0.99
       L-CI-168        3.65  ===> Warning ! (sqrt(wave celerity)*time step/conduit length)
       L-MHI-87        0.32
       L-CI-170        3.41  ===> Warning ! (sqrt(wave celerity)*time step/conduit length)
      L-CI-175s        0.61
       L-MHI-93        1.25  ===> Warning ! (sqrt(wave celerity)*time step/conduit length)
       L-CI-179        2.14  ===> Warning ! (sqrt(wave celerity)*time step/conduit length)
       L-CI-166        1.39  ===> Warning ! (sqrt(wave celerity)*time step/conduit length)
        Link252        0.51
       L-CI-169        0.69
        Link255        2.78  ===> Warning ! (sqrt(wave celerity)*time step/conduit length)
        Link256        1.39  ===> Warning ! (sqrt(wave celerity)*time step/conduit length)
       CI175-93        4.54  ===> Warning ! (sqrt(wave celerity)*time step/conduit length)
        NWC-175        0.46
      L-JCT-177        5.18  ===> Warning ! (sqrt(wave celerity)*time step/conduit length)
       L-CI-177        5.35  ===> Warning ! (sqrt(wave celerity)*time step/conduit length)
        Link262        1.39  ===> Warning ! (sqrt(wave celerity)*time step/conduit length)
         L-MH96        3.28  ===> Warning ! (sqrt(wave celerity)*time step/conduit length)
        Link264        0.93
        Link265        2.24  ===> Warning ! (sqrt(wave celerity)*time step/conduit length)
        L-DI-22        1.16  ===> Warning ! (sqrt(wave celerity)*time step/conduit length)
        Link267        1.21  ===> Warning ! (sqrt(wave celerity)*time step/conduit length)
        L-J-177        0.64
        L-DI-31        2.83  ===> Warning ! (sqrt(wave celerity)*time step/conduit length)
        L-DI-28        2.01  ===> Warning ! (sqrt(wave celerity)*time step/conduit length)
       E11504_1        1.15  ===> Warning ! (sqrt(wave celerity)*time step/conduit length)
        Link274        7.57  ===> Warning ! (sqrt(wave celerity)*time step/conduit length)
        MH1-CI1        4.01  ===> Warning ! (sqrt(wave celerity)*time step/conduit length)
          CI1-2        0.58
        CI2-MH2        0.95
          MH2-4        1.06  ===> Warning ! (sqrt(wave celerity)*time step/conduit length)
          MH4-7        1.71  ===> Warning ! (sqrt(wave celerity)*time step/conduit length)
          MH7-8        1.90  ===> Warning ! (sqrt(wave celerity)*time step/conduit length)
        CI5-MH5        1.74  ===> Warning ! (sqrt(wave celerity)*time step/conduit length)
          MH5-6        0.76
          MH6-7        1.60  ===> Warning ! (sqrt(wave celerity)*time step/conduit length)
       CI2A-MH2        2.11  ===> Warning ! (sqrt(wave celerity)*time step/conduit length)
       CI5A-MH5        2.98  ===> Warning ! (sqrt(wave celerity)*time step/conduit length)
        CI6-MH6        1.34  ===> Warning ! (sqrt(wave celerity)*time step/conduit length)
       CI6A-MH6        4.63  ===> Warning ! (sqrt(wave celerity)*time step/conduit length)
        MH3-CI3        3.65  ===> Warning ! (sqrt(wave celerity)*time step/conduit length)
          CI3-4        0.43
        CI4-MH4        1.14  ===> Warning ! (sqrt(wave celerity)*time step/conduit length)
       CI4A-MH4        4.63  ===> Warning ! (sqrt(wave celerity)*time step/conduit length)
         BNGL-2        3.58  ===> Warning ! (sqrt(wave celerity)*time step/conduit length)
        Link277        2.63  ===> Warning ! (sqrt(wave celerity)*time step/conduit length)
        Link278        0.80
          947.1        1.48  ===> Warning ! (sqrt(wave celerity)*time step/conduit length)
         24"rcp        3.27  ===> Warning ! (sqrt(wave celerity)*time step/conduit length)
          948.1        0.78
          948.2        0.58
          952.1        0.63
          952.2        0.47
          953.1        1.27  ===> Warning ! (sqrt(wave celerity)*time step/conduit length)
          953.2        0.94

*==================*
|  Conduit Volume  |
*==================*

Full pipe or full open conduit volume
Input full depth volume.............    1.8831E+05 cubic feet

===> Warning !! The upstream and downstream junctions for the following conduits
                have been reversed to correspond to the positive flow and decreasing
                slope convention.  A negative flow in the output thus means
                the flow was from your original upstream junction to your original
                downstream junction.  Any initial flow has been multiplied by -1.

                1.  Conduit #...L-CI-191    has been changed.


*================================================*
|          Table E3a - Junction Data             |
*================================================*

Inp         Junction     Ground     Crown    Invert    Qinst  Initial  Interface
Num            Name  Elevation Elevation Elevation      cfs Depth-ft   Flow (%)
---  ---------------  --------- --------- --------- -------- --------  ---------
  1          MHI-106    79.6100   79.6100   73.2500   0.0000   0.0000   100.0000
  2           CI-196    78.7100   78.7100   73.9800   0.0000   0.0000   100.0000
```

3	DI-20	79.3100	79.3100	74.0500	0.0000	0.0000	100.0000
4	DI-19	80.2100	80.2100	74.5500	0.0000	0.0000	100.0000
5	MHI-110	79.2900	79.2900	71.3700	0.0000	0.0000	100.0000
6	MH-43	80.8000	80.8000	71.7500	0.0000	0.0000	100.0000
7	MHI-107	80.0000	80.0000	70.8600	0.0000	0.0000	100.0000
8	MHI-108	80.0000	80.0000	70.3800	0.0000	0.0000	100.0000
9	MHI-109	80.8000	80.8000	69.9200	0.0000	0.0000	100.0000
10	MHI-104	80.4000	80.4000	70.8800	0.0000	0.0000	100.0000
11	E11504.2	81.6300	74.5200	69.5200	0.0000	0.0000	100.0000
12	MH-42	82.5200	82.5200	71.9300	0.0000	0.0000	100.0000
13	MHI-105	79.7100	79.7100	72.6900	0.0000	0.0000	100.0000
14	CI-194	79.6000	79.6000	72.7600	0.0000	0.0000	100.0000
15	DI-18	79.4000	79.4000	74.3300	0.0000	0.0000	100.0000
16	CI-193	79.4000	79.4000	74.4700	0.0000	0.0000	100.0000
17	DI-21	79.3900	79.3900	72.9100	0.0000	0.0000	100.0000
18	CI-195	79.6100	79.6100	73.2800	0.0000	0.0000	100.0000
19	CI-197	79.8600	79.8600	75.7600	0.0000	0.0000	100.0000
20	DI-22	79.5000	79.5000	73.9400	0.0000	0.0000	100.0000
21	DI-23	80.1000	80.1000	73.1400	0.0000	0.0000	100.0000
22	CI-189	80.7000	80.7000	74.6100	0.0000	0.0000	100.0000
23	CI-190	80.4300	80.4300	74.5300	0.0000	0.0000	100.0000
24	MHI-99	80.6800	80.6800	74.4800	0.0000	0.0000	100.0000
25	MHI-98	81.6500	81.6500	74.4900	0.0000	0.0000	100.0000
26	CI-188	80.3500	80.3500	75.0700	0.0000	0.0000	100.0000
27	MHI-100	80.6200	80.6200	73.0900	0.0000	0.0000	100.0000
28	MHI-102	79.7100	79.7100	71.3200	0.0000	0.0000	100.0000
29	MHI-101	79.7000	79.7000	71.5900	0.0000	0.0000	100.0000
30	CI-191	79.6000	79.6000	72.1800	0.0000	0.0000	100.0000
31	MHI-103	79.4000	79.4000	74.1700	0.0000	0.0000	100.0000
32	CI-192	79.0000	79.0000	74.2300	0.0000	0.0000	100.0000
33	DI-24	79.8100	79.8100	74.6700	0.0000	0.0000	100.0000
34	DI-34	82.1000	82.1000	71.6400	0.0000	0.0000	100.0000
35	CI-161A	82.2800	82.2800	77.5800	0.0000	0.0000	100.0000
36	CI-167	82.2500	82.2500	77.7000	0.0000	0.0000	100.0000
37	CI-184	80.3800	80.3800	75.7900	0.0000	0.0000	100.0000
38	CI-183	79.5000	79.5000	75.1200	0.0000	0.0000	100.0000
39	CI-182	80.7200	80.7200	75.7200	0.0000	0.0000	100.0000
40	MHI-97	79.7400	79.7400	75.0400	0.0000	0.0000	100.0000
41	CI-187	80.5100	80.5100	75.7700	0.0000	0.0000	100.0000
42	CI-186	80.1100	80.1100	74.1200	0.0000	0.0000	100.0000
43	CI-185	80.1100	80.1100	73.9800	0.0000	0.0000	100.0000
44	CI-179	79.5700	79.5700	74.6800	0.0000	0.0000	100.0000
45	CI-178	80.0000	80.0000	75.2600	0.0000	0.0000	100.0000
46	MHI-96	80.4400	80.4400	72.6300	0.0000	0.0000	100.0000
47	MHI-95	79.6600	79.6600	74.4000	0.0000	0.0000	100.0000
48	CI-180	79.6000	79.6000	75.5500	0.0000	0.0000	100.0000
49	CI-181	80.0000	80.0000	74.9500	0.0000	0.0000	100.0000
50	CI-176	80.3400	80.3400	72.6700	0.0000	0.0000	100.0000
51	CI-175	81.0000	81.0000	71.6300	0.0000	0.0000	100.0000
52	CI-175S	81.8400	81.8400	72.8000	0.0000	0.0000	100.0000
53	MHI-93	80.4000	80.4000	72.2800	0.0000	0.0000	100.0000
54	MHI-94	80.0900	80.0900	71.8600	0.0000	0.0000	100.0000
55	CI-177	79.5600	79.5600	75.1900	0.0000	0.0000	100.0000
56	JCT-177	80.5000	77.1600	71.8100	0.0000	0.0000	100.0000
57	MHI-92	79.3500	79.3500	72.5800	0.0000	0.0000	100.0000
58	CI-173	79.5000	79.5000	75.3000	0.0000	0.0000	100.0000
59	CI-174	79.4000	79.4000	74.6500	0.0000	0.0000	100.0000
60	MHI-89	80.4200	80.4200	73.5500	0.0000	0.0000	100.0000
61	MHI-90	79.7500	79.7500	73.0400	0.0000	0.0000	100.0000
62	CI-172	80.0600	80.0600	75.6400	0.0000	0.0000	100.0000
63	MHI-91	81.4200	81.4200	76.0500	0.0000	0.0000	100.0000
64	CI-171	81.5000	81.5000	76.1000	0.0000	0.0000	100.0000
65	CI-170	80.0400	80.0400	75.6100	0.0000	0.0000	100.0000
66	CI-169	81.0500	81.0500	76.5100	0.0000	0.0000	100.0000
67	MHI-88	80.4200	80.4200	73.8800	0.0000	0.0000	100.0000
68	CI-166	80.5000	80.5000	76.5900	0.0000	0.0000	100.0000
69	CI-165	80.5000	80.5000	73.9400	0.0000	0.0000	100.0000
70	CI-164	81.1000	81.1000	74.7200	0.0000	0.0000	100.0000
71	CI-168	81.8200	81.8200	76.7500	0.0000	0.0000	100.0000
72	MHI-87	80.3800	80.3800	76.7000	0.0000	0.0000	100.0000
73	CI-163	81.8100	81.8100	75.0500	0.0000	0.0000	100.0000
74	CNT-01	81.8300	81.8300	72.5900	0.0000	0.0000	100.0000
75	E11504.1	80.5000	75.9200	70.9200	0.0000	0.0000	100.0000
76	DI-31	82.6400	82.6400	71.4600	0.0000	0.0000	100.0000
77	DI-28	83.1400	83.1400	74.2800	0.0000	0.0000	100.0000
78	A102	80.5000	80.5000	71.3800	0.0000	0.0000	100.0000
79	CNT-02	80.5000	80.5000	72.1900	0.0000	0.0000	100.0000
80	CI-6	76.2000	76.2000	72.8100	0.0000	0.0000	100.0000
81	CI-6A	77.5000	77.5000	74.7100	0.0000	0.0000	100.0000
82	MH-6	77.1600	76.1500	72.5100	0.0000	0.0000	100.0000
83	MH-8	77.1200	73.4200	66.3100	0.0000	0.0000	100.0000
84	MH-7	76.7300	74.2100	66.4500	0.0000	0.0000	100.0000
85	MH-4	78.0000	76.3300	67.1500	0.0000	0.0000	100.0000
86	MH-5	77.0000	76.4100	72.7200	0.0000	0.0000	100.0000
87	CI-5	76.4000	76.4000	72.8100	0.0000	0.0000	100.0000
88	CI-5A	77.3700	77.3700	75.0100	0.0000	0.0000	100.0000
89	CI-4A	76.5000	76.5000	74.9100	0.0000	0.0000	100.0000
90	CI-4	77.8000	77.8000	70.8000	0.0000	0.0000	100.0000
91	CI-3	79.7700	79.7700	72.7400	0.0000	0.0000	100.0000
92	MHI-3	78.5300	74.8100	72.8100	0.0000	0.0000	100.0000
93	MHI-1	77.5000	74.8100	72.8100	0.0000	0.0000	100.0000
94	CI-1	77.2000	77.2000	72.2500	0.0000	0.0000	100.0000
95	CI-2	76.4000	76.4000	71.3800	0.0000	0.0000	100.0000
96	MH-2	76.8000	76.1800	67.9600	0.0000	0.0000	100.0000
97	BNGL01	77.8300	77.8300	68.0400	0.0000	0.0000	100.0000
98	CI-2A	77.5000	77.5000	74.8100	0.0000	0.0000	100.0000
99	MH-9	76.2000	73.9400	66.1300	0.0000	0.0000	100.0000
100	MH-11	75.2700	71.6800	65.3700	0.0000	0.0000	100.0000
101	MH-10	77.8100	73.3300	65.7900	0.0000	0.0000	100.0000
102	E11504.3	76.8100	71.4700	65.1600	0.0000	0.0000	100.0000
103	POND-4B	80.0000	80.0000	72.8040	0.0000	0.0000	100.0000

Table E3b - Junction Data

Inp Num	Junction Name	X Coord.	Y Coord.	Type of Manhole	Type of Inlet	Maximum Capacity	Pavement Shape	Pavement Slope
1	MHI-106	3.083400E+06	13.87370E+06	F	Normal		0	0.0000
2	CI-196	3.083800E+06	13.87380E+06	F	Normal		0	0.0000
3	DI-20	3.083900E+06	13.87400E+06	F	Normal		0	0.0000
4	DI-19	3.083500E+06	13.87400E+06	F	Normal		0	0.0000
5	MHI-110	3.082800E+06	13.87320E+06	F	Normal		0	0.0000
6	MH-43	3.083100E+06	13.87370E+06	F	Normal		0	0.0000
7	MHI-107	3.082400E+06	13.87290E+06	F	Normal		0	0.0000
8	MHI-108	3.082100E+06	13.87280E+06	F	Normal		0	0.0000
9	MHI-109	3.081849E+06	13.87259E+06	F	Normal		0	0.0000
10	MHI-104	3.081900E+06	13.87310E+06	F	Normal		0	0.0000
11	E11504.2	3.081600E+06	13.87240E+06		Normal		0	0.0000
12	MH-42	3.082900E+06	13.87370E+06	F	Normal		0	0.0000
13	MHI-105	3.082700E+06	13.87370E+06	F	Normal		0	0.0000
14	CI-194	3.082700E+06	13.87380E+06	F	Normal		0	0.0000
15	DI-18	3.083000E+06	13.87400E+06	F	Normal		0	0.0000
16	CI-193	3.082300E+06	13.87380E+06	F	Normal		0	0.0000
17	DI-21	3.082500E+06	13.87380E+06	F	Normal		0	0.0000
18	CI-195	3.083400E+06	13.87380E+06	F	Normal		0	0.0000

19	CI-197	3.082600E+06	13.87320E+06		F	Normal	0	0.0000
20	DI-22	3.082900E+06	13.87310E+06		F	Normal	0	0.0000
21	DI-23	3.082500E+06	13.87280E+06		F	Normal	0	0.0000
22	CI-189	3.081200E+06	13.87380E+06		F	Normal	0	0.0000
23	CI-190	3.081500E+06	13.87380E+06		F	Normal	0	0.0000
24	MHI-99	3.081500E+06	13.87370E+06		F	Normal	0	0.0000
25	MHI-98	3.081000E+06	13.87330E+06		F	Normal	0	0.0000
26	CI-188	3.081000E+06	13.87310E+06		F	Normal	0	0.0000
27	MHI-100	3.081500E+06	13.87330E+06		F	Normal	0	0.0000
28	MHI-102	3.082000E+06	13.87330E+06		F	Normal	0	0.0000
29	MHI-101	3.082000E+06	13.87370E+06		F	Normal	0	0.0000
30	CI-191	3.082000E+06	13.87380E+06		F	Normal	0	0.0000
31	MHI-103	3.082400E+06	13.87330E+06		F	Normal	0	0.0000
32	CI-192	3.082400E+06	13.87320E+06		F	Normal	0	0.0000
33	DI-24	3.081700E+06	13.87310E+06		F	Normal	0	0.0000
34	DI-34	3.083000E+06	13.87350E+06		F	Normal	0	0.0000
35	CI-161A	3.076100E+06	13.87390E+06		F	Normal	0	0.0000
36	CI-167	3.076100E+06	13.87310E+06		F	Normal	0	0.0000
37	CI-184	3.080575E+06	13.87370E+06		F	Normal	0	0.0000
38	CI-183	3.080200E+06	13.87370E+06		F	Normal	0	0.0000
39	CI-182	3.079900E+06	13.87370E+06		F	Normal	0	0.0000
40	MHI-97	3.080200E+06	13.87360E+06		F	Normal	0	0.0000
41	CI-187	3.080500E+06	13.87310E+06		F	Normal	0	0.0000
42	CI-186	3.080202E+06	13.87310E+06		F	Normal	0	0.0000
43	CI-185	3.079907E+06	13.87310E+06		F	Normal	0	0.0000
44	CI-179	3.079498E+06	13.87312E+06		F	Normal	0	0.0000
45	CI-178	3.079298E+06	13.87312E+06		F	Normal	0	0.0000
46	MHI-96	3.079505E+06	13.87329E+06		F	Normal	0	0.0000
47	MHI-95	3.079500E+06	13.87360E+06		F	Normal	0	0.0000
48	CI-180	3.079700E+06	13.87370E+06		F	Normal	0	0.0000
49	CI-181	3.079500E+06	13.87370E+06		F	Normal	0	0.0000
50	CI-176	3.078802E+06	13.87380E+06		F	Normal	0	0.0000
51	CI-175	3.078502E+06	13.87380E+06		F	Normal	0	0.0000
52	CI-175S	3.078300E+06	13.87380E+06		F	Normal	0	0.0000
53	MHI-93	3.078505E+06	13.87370E+06		F	Normal	0	0.0000
54	MHI-94	3.078505E+06	13.87330E+06		F	Normal	0	0.0000
55	CI-177	3.078798E+06	13.87310E+06		F	Normal	0	0.0000
56	JCT-177	3.078498E+06	13.87310E+06			Normal	0	0.0000
57	MHI-92	3.077700E+06	13.87330E+06		F	Normal	0	0.0000
58	CI-173	3.077900E+06	13.87310E+06		F	Normal	0	0.0000
59	CI-174	3.077700E+06	13.87310E+06		F	Normal	0	0.0000
60	MHI-89	3.077096E+06	13.87330E+06		F	Normal	0	0.0000
61	MHI-90	3.077500E+06	13.87330E+06		F	Normal	0	0.0000
62	CI-172	3.077500E+06	13.87310E+06		F	Normal	0	0.0000
63	MHI-91	3.077500E+06	13.87370E+06		F	Normal	0	0.0000
64	CI-171	3.077500E+06	13.87390E+06		F	Normal	0	0.0000
65	CI-170	3.077100E+06	13.87310E+06		F	Normal	0	0.0000
66	CI-169	3.076844E+06	13.87310E+06		F	Normal	0	0.0000
67	MHI-88	3.077000E+06	13.87370E+06		F	Normal	0	0.0000
68	CI-166	3.077300E+06	13.87390E+06		F	Normal	0	0.0000
69	CI-165	3.077000E+06	13.87390E+06		F	Normal	0	0.0000
70	CI-164	3.076700E+06	13.87390E+06		F	Normal	0	0.0000
71	CI-168	3.076400E+06	13.87310E+06		F	Normal	0	0.0000
72	MHI-87	3.076396E+06	13.87330E+06		F	Normal	0	0.0000
73	CI-163	3.076400E+06	13.87390E+06		F	Normal	0	0.0000
74	CNT-01	3.078500E+06	13.87396E+06		F	Normal	0	0.0000
75	E11504.1	3.078500E+06	13.87249E+06			Normal	0	0.0000
76	DI-31	3.081989E+06	13.87352E+06		F	Normal	0	0.0000
77	DI-28	3.081503E+06	13.87353E+06		F	Normal	0	0.0000
78	A102	3.078495E+06	13.87278E+06		F	Normal	0	0.0000
79	CNT-02	3.081999E+06	13.87416E+06		F	Normal	0	0.0000
80	CI-6	3.085662E+06	13.87329E+06		F	Normal	0	0.0000
81	CI-6A	3.085220E+06	13.87331E+06		F	Normal	0	0.0000
82	MH-6	3.085370E+06	13.87329E+06			Normal	0	0.0000
83	MH-8	3.085270E+06	13.87289E+06			Normal	0	0.0000
84	MH-7	3.085170E+06	13.87309E+06			Normal	0	0.0000
85	MH-4	3.084870E+06	13.87329E+06			Normal	0	0.0000
86	MH-5	3.085270E+06	13.87369E+06			Normal	0	0.0000
87	CI-5	3.085670E+06	13.87379E+06		F	Normal	0	0.0000
88	CI-5A	3.085137E+06	13.87366E+06		F	Normal	0	0.0000
89	CI-4A	3.084670E+06	13.87309E+06		F	Normal	0	0.0000
90	CI-4	3.084470E+06	13.87329E+06		F	Normal	0	0.0000
91	CI-3	3.084170E+06	13.87329E+06		F	Normal	0	0.0000
92	MHI-3	3.084170E+06	13.87349E+06			Normal	0	0.0000
93	MHI-1	3.084170E+06	13.87359E+06			Normal	0	0.0000
94	CI-1	3.084170E+06	13.87379E+06		F	Normal	0	0.0000
95	CI-2	3.084470E+06	13.87379E+06		F	Normal	0	0.0000
96	MH-2	3.084770E+06	13.87369E+06			Normal	0	0.0000
97	BNGL01	3.084770E+06	13.87411E+06		F	Normal	0	0.0000
98	CI-2A	3.084966E+06	13.87365E+06		F	Normal	0	0.0000
99	MH-9	3.085370E+06	13.87269E+06			Normal	0	0.0000
100	MH-11	3.085570E+06	13.87229E+06			Normal	0	0.0000
101	MH-10	3.085470E+06	13.87249E+06			Normal	0	0.0000
102	E11504.3	3.085646E+06	13.87208E+06			Normal	0	0.0000
103	POND-4B	3.084162E+06	13.87318E+06		F	Normal	0	0.0000

Table E4 - Conduit Connectivity

Input Number	Conduit Name	Upstream Node	Downstream Node	Upstream Elevation	Downstream Elevation	
1	L-CI-193	CI-193	DI-21	74.4700	74.4100	No Design
2	L-DI-21	DI-21	CI-194	72.9100	72.7600	No Design
3	L-CI-194	CI-194	MHI-105	72.7600	72.6900	No Design
4	L-MHI-105	MHI-105	MH-42	72.6900	72.4300	No Design
5	L-MH-42	MH-42	MH-43	71.9300	71.7500	No Design
6	L-MH-43	MH-43	DI-34	71.7500	71.6400	No Design
7	L-MHI-110	MHI-110	MHI-107	71.3700	70.8600	No Design
8	L-MHI-107	MHI-107	MHI-108	70.8600	70.3800	No Design
9	L-MHI-108	MHI-108	MHI-109	70.3800	69.9200	No Design
10	E11504_2	MHI-109	E11504.2	69.9200	69.5200	No Design
11	L-DI-20	DI-20	CI-196	74.0500	73.9800	No Design
12	L-CI-196	CI-196	CI-195	73.9800	73.7800	No Design
13	L-CI-195	CI-195	MHI-106	73.2800	73.2500	No Design
14	L-MHI-106	MHI-106	MH-43	73.2500	73.1300	No Design
15	L-CI-197	CI-197	MHI-110	75.7600	75.7100	No Design
16	L-DI-23	DI-23	MHI-107	73.1400	72.9000	No Design
17	L-MHI-104	MHI-104	MHI-108	70.8800	70.3800	No Design
18	L-DI-19	DI-19	CI-195	74.5500	74.3800	No Design
19	L-DI-18	DI-18	MH-42	74.3300	73.9700	No Design
20	L-CI-189	CI-189	CI-190	74.6100	74.5300	No Design
21	L-CI-190	CI-190	MHI-99	74.5300	74.4800	No Design
22	L-MHI-99	MHI-99	DI-28	74.4800	74.2800	No Design
23	L-MHI-100	MHI-100	MHI-104	73.0900	72.7500	No Design
24	L-CI-191	MHI-101	CI-191	72.1900	72.1800	No Design
25	L-MHI-101	MHI-101	DI-31	71.5900	71.4600	No Design
26	L-MHI-102	MHI-102	MHI-104	71.3200	70.8800	No Design
27	L-CI-188	CI-188	MHI-98	75.0700	74.9900	No Design
28	L-MHI-98	MHI-98	MHI-100	74.4900	74.0900	No Design
29	L-DI-24	DI-24	MHI-104	74.6700	74.2500	No Design
30	L-CI-182	CI-182	CI-183	75.7200	75.6200	No Design
31	L-CI-162	CI-167	CI-168	77.7000	77.2500	No Design
32	L-CI-163	CI-163	CI-164	75.0500	74.7200	No Design
33	L-CI-164	CI-164	CI-165	74.7200	74.4400	No Design
34	L-CI-165	CI-165	MHI-88	73.9400	73.8800	No Design

35	L-MHI-88	MHI-88	MHI-89	73.8800	73.5500	No Design
36	L-MHI-89	MHI-89	MHI-90	73.5500	73.0400	No Design
37	L-MHI-90	MHI-90	MHI-92	73.0400	72.5800	No Design
38	L-MHI-92	MHI-92	MHI-94	72.5800	71.8600	No Design
39	L-MHI-94	MHI-96	MHI-94	72.6300	71.8600	No Design
40	L-MHI-96	CI-185	MHI-96	73.9800	73.3400	No Design
41	L-CI-185	CI-186	CI-185	74.1200	73.9800	No Design
42	L-CI-186	MHI-97	CI-186	75.0400	74.6200	No Design
43	L-MHI-97	CI-183	MHI-97	75.1200	75.0400	No Design
44	L-CI-183	CI-184	CI-183	75.7900	75.6200	No Design
45	L-CI-171	CI-171	MHI-91	76.1000	76.0500	No Design
46	L-MHI-91	MHI-91	MHI-90	76.0500	75.5400	No Design
47	L-CI-174	CI-174	MHI-92	74.6500	74.5800	No Design
48	L-CI-175	CI-176	CI-175	72.6700	72.3800	No Design
49	L-CI-181	CI-181	MHI-95	74.9500	74.9000	No Design
50	L-MHI-95	MHI-95	MHI-96	74.4000	74.1300	No Design
51	L-CI-168	CI-168	MHI-87	76.7500	76.7000	No Design
52	L-MHI-87	MHI-87	MHI-89	76.7000	75.5500	No Design
53	L-CI-170	CI-170	MHI-89	75.6100	75.5500	No Design
54	L-CI-175s	CI-175S	CI-175	72.8000	72.3800	No Design
55	L-MHI-93	MHI-93	MHI-94	72.2800	71.8600	No Design
56	L-CI-179	CI-178	CI-179	75.2600	75.1900	No Design
57	L-CI-166	CI-166	CI-165	76.5900	76.4400	No Design
58	Link252	CI-161A	CI-163	77.5800	76.9700	No Design
59	L-CI-169	CI-169	CI-170	76.5100	76.1100	No Design
60	Link255	CI-172	MHI-90	75.6400	75.5400	No Design
61	Link256	CI-173	CI-174	75.3000	75.1500	No Design
62	CI175-93	CI-175	MHI-93	72.3800	72.2800	No Design
63	NWC-175	CNT-01	CI-175	73.3400	72.3800	No Design
64	L-JCT-177	MHI-94	JCT-177	71.8600	71.8100	No Design
65	L-CI-177	CI-177	JCT-177	75.1900	75.1600	No Design
66	Link262	CI-180	CI-181	75.5500	75.4500	No Design
67	L-MH96	CI-179	MHI-96	74.6800	74.6200	No Design
68	Link264	CI-187	CI-186	75.7700	75.6200	No Design
69	Link265	CI-192	MHI-103	74.2300	74.1700	No Design
70	L-DI-22	DI-22	MHI-110	73.9400	73.8400	No Design
71	Link267	DI-34	MHI-110	71.6400	71.3700	No Design
72	L-J-177	JCT-177	A102	71.8100	71.3800	No Design
73	L-DI-31	DI-31	MHI-102	71.4600	71.3200	No Design
74	L-DI-28	DI-28	MHI-100	74.2800	74.0900	No Design
75	E11504_1	A102	E11504.1	71.3800	70.9200	No Design
76	Link274	CNT-02	CI-191	72.1900	72.1800	No Design
77	MH1-CI1	MHI-1	CI-1	72.8100	72.7500	No Design
78	CI1-2	CI-1	CI-2	72.2500	71.8800	No Design
79	CI2-MH2	CI-2	MH-2	71.3800	71.0700	No Design
80	MH2-4	MH-2	MH-4	67.9600	67.6500	No Design
81	MH4-7	MH-4	MH-7	67.1500	66.9700	No Design
82	MH7-8	MH-7	MH-8	66.4500	66.3100	No Design
83	CI5-MH5	CI-5	MH-5	72.8100	72.7200	No Design
84	MH5-6	MH-5	MH-6	72.7200	72.5100	No Design
85	MH6-7	MH-6	MH-7	72.5100	72.2100	No Design
86	CI2A-MH2	CI-2A	MH-2	74.8100	74.6800	No Design
87	CI5A-MH5	CI-5A	MH-5	75.0100	74.9100	No Design
88	CI6-MH6	CI-6	MH-6	72.8100	72.6900	No Design
89	CI6A-MH6	CI-6A	MH-6	74.7100	74.6500	No Design
90	MH3-CI3	MHI-3	CI-3	72.8100	72.7400	No Design
91	CI3-4	CI-3	CI-4	72.7400	71.8000	No Design
92	CI4-MH4	CI-4	MH-4	70.8000	70.5200	No Design
93	CI4A-MH4	CI-4A	MH-4	74.9100	74.8300	No Design
94	BNGL-2	BNGL01	MH-2	68.0400	67.9600	No Design
95	Link277	POND-4B	CI-3	72.8040	72.7400	No Design
96	Link278	MHI-103	MHI-102	74.1700	73.7900	No Design
97	947.1	MH-8	MH-9	66.3100	66.1300	No Design
98	24"rcp	MH-8	MH-9	71.4200	70.9400	No Design
99	948.1	MH-9	MH-10	66.1300	65.7900	No Design
100	948.2	MH-9	MH-10	70.9400	70.3300	No Design
101	952.1	MH-10	MH-11	65.7900	65.3700	No Design
102	952.2	MH-10	MH-11	70.3300	68.6800	No Design
103	953.1	MH-11	E11504.3	65.3700	65.1600	No Design
104	953.2	MH-11	E11504.3	68.6800	68.4700	No Design

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| Storage Junction Data |
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STORAGE JUNCTION NUMBER OR NAME	JUNCTION TYPE	MAXIMUM OR CONSTANT SURFACE AREA (FT2)	PEAK OR CONSTANT VOLUME (CUBIC FEET)	CROWN ELEVATION (FT)	DEPTH STARTS FROM
CI-196	Stage/Area	12719.5200	53678.3182	78.7100	Spill Crest
DI-20	Stage/Area	12719.5200	60419.6638	79.3100	Spill Crest
DI-19	Stage/Area	12719.5200	65507.4718	80.2100	Spill Crest
MHI-104	Stage/Area	43560.0000	359984.7256	80.4000	Spill Crest
CI-194	Stage/Area	12719.5200	80516.5054	79.6000	Spill Crest
DI-18	Stage/Area	12719.5200	58002.9550	79.4000	Node Invert
CI-193	Stage/Area	12719.5200	56222.2222	79.4000	Spill Crest
DI-21	Stage/Area	12719.5200	75937.4782	79.3900	Spill Crest
CI-195	Stage/Area	12719.5200	74029.5502	79.6100	Spill Crest
CI-197	Stage/Area	12719.5200	45665.0206	79.8600	Spill Crest
DI-22	Stage/Area	12719.5200	64235.5198	79.5000	Spill Crest
DI-23	Stage/Area	12719.5200	82042.8478	80.1000	Spill Crest
MHI-102	Stage/Area	17424.0000	124383.0125	79.7100	Spill Crest
MHI-101	Stage/Area	17424.0000	119504.2925	79.7000	Spill Crest
CI-191	Stage/Area	12719.5200	87893.8270	79.6000	Spill Crest
CI-192	Stage/Area	12719.5200	54187.0990	79.0000	Spill Crest
DI-24	Stage/Area	12719.5200	58893.3214	79.8100	Spill Crest
CI-161A	Stage/Area	12719.5200	53296.7326	82.2800	Spill Crest
CI-167	Stage/Area	12719.5200	51388.8046	82.2500	Spill Crest
CI-184	Stage/Area	12719.5200	51897.5854	80.3800	Spill Crest
CI-183	Stage/Area	12719.5200	49226.4862	79.5000	Spill Crest
CI-182	Stage/Area	12719.5200	57112.5886	80.7200	Spill Crest
MHI-97	Stage/Area	17424.0000	60088.4525	79.7400	Spill Crest
CI-187	Stage/Area	20081.1600	15806.0003	80.5100	Node Invert
CI-186	Stage/Area	12719.5200	69704.9134	80.1100	Spill Crest
CI-185	Stage/Area	12719.5200	71485.6462	80.1100	Spill Crest
CI-179	Stage/Area	12719.5200	55713.4414	79.5700	Node Invert
CI-178	Stage/Area	12719.5200	53805.5134	80.0000	Spill Crest
MHI-96	Stage/Area	17424.0000	114277.0925	80.4400	Spill Crest
MHI-95	Stage/Area	17424.0000	69845.8925	79.6600	Spill Crest
CI-180	Stage/Area	12719.5200	45029.0446	79.6000	Spill Crest
CI-181	Stage/Area	12719.5200	57748.5646	80.0000	Spill Crest
CI-176	Stage/Area	12719.5200	91073.7070	80.3400	Spill Crest
CI-175	Stage/Area	12719.5200	112696.8910	81.0000	Spill Crest
CI-175S	Stage/Area	12719.5200	108499.4494	81.8400	Spill Crest
MHI-93	Stage/Area	17424.0000	119678.5325	80.4000	Spill Crest
MHI-94	Stage/Area	17424.0000	121595.1725	80.0900	Spill Crest
CI-177	Stage/Area	12719.5200	49099.2910	79.5600	Spill Crest
MHI-92	Stage/Area	17424.0000	96156.1325	79.3500	Spill Crest
CI-173	Stage/Area	12719.5200	46936.9726	79.5000	Spill Crest
CI-174	Stage/Area	12719.5200	53932.7086	79.4000	Spill Crest
MHI-89	Stage/Area	17424.0000	97898.5325	80.4200	Spill Crest
MHI-90	Stage/Area	17424.0000	95110.6925	79.7500	Spill Crest
CI-172	Stage/Area	12719.5200	49735.2670	80.0600	Spill Crest
MHI-91	Stage/Area	17424.0000	71762.5325	81.4200	Spill Crest
CI-171	Stage/Area	12719.5200	62200.3966	81.5000	Spill Crest
CI-170	Stage/Area	12719.5200	49862.4622	80.0400	Spill Crest
CI-169	Stage/Area	12719.5200	51261.6094	81.0500	Spill Crest

MHI-88	Stage/Area	17424.0000	92148.6125	80.4200	Spill Crest
CI-165	Stage/Area	12719.5200	76955.0398	80.5000	Spill Crest
CI-164	Stage/Area	12719.5200	74665.5262	81.1000	Spill Crest
CI-168	Stage/Area	12719.5200	58002.9550	81.8200	Spill Crest
MHI-87	Stage/Area	17424.0000	42315.9725	80.3800	Spill Crest
CI-163	Stage/Area	12719.5200	79498.9438	81.8100	Spill Crest
CI-6	Stage/Area	12719.5200	36634.1614	76.2000	Spill Crest
CI-6A	Stage/Area	12719.5200	29002.4494	77.5000	Spill Crest
CI-5	Stage/Area	12719.5200	39178.0654	76.4000	Spill Crest
CI-5A	Stage/Area	12719.5200	23533.0558	77.3700	Spill Crest
CI-4A	Stage/Area	12719.5200	13739.0254	76.5000	Spill Crest
CI-4	Stage/Area	12719.5200	82551.6286	77.8000	Spill Crest
CI-3	Stage/Area	12719.5200	82933.2142	79.7700	Spill Crest
CI-1	Stage/Area	12719.5200	56476.6126	77.2000	Spill Crest
CI-2	Stage/Area	12719.5200	57366.9790	76.4000	Spill Crest
CI-2A	Stage/Area	12719.5200	27730.4974	77.5000	Spill Crest

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| Variable storage data for node | CI-196
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	73.9800	0.0000	4.3560	0.0000	0.0001	0.0000
2	74.0050	0.0250	150.8265	1.5068	0.0035	0.0000
3	74.0300	0.0500	297.2970	7.0058	0.0068	0.0002
4	74.0550	0.0750	443.7675	16.2082	0.0102	0.0004
5	74.0800	0.1000	590.2380	29.0898	0.0135	0.0007
6	74.1050	0.1250	736.7085	45.6428	0.0169	0.0010
7	74.1300	0.1500	883.1790	65.8638	0.0203	0.0015
8	74.1550	0.1750	1029.6495	89.7507	0.0236	0.0021
9	74.1800	0.2000	1176.1200	117.3026	0.0270	0.0027
10	74.2050	0.2250	1475.5950	150.3783	0.0339	0.0035
11	74.2300	0.2500	1775.0700	190.9540	0.0408	0.0044
12	74.2550	0.2750	2074.5450	239.0256	0.0476	0.0055
13	74.2800	0.3000	2374.0200	294.5906	0.0545	0.0068
14	74.3050	0.3250	2673.4950	357.6475	0.0614	0.0082
15	74.3300	0.3500	2972.9700	428.1952	0.0683	0.0098
16	74.3550	0.3750	3272.4450	506.2330	0.0751	0.0116
17	74.3800	0.4000	3571.9200	591.7602	0.0820	0.0136
18	74.3925	0.4125	3773.3850	637.6626	0.0866	0.0146
19	74.4050	0.4250	3974.8500	686.0836	0.0912	0.0158
20	74.4175	0.4375	4176.3150	737.0232	0.0959	0.0169
21	74.4300	0.4500	4377.7800	790.4814	0.1005	0.0181
22	74.4425	0.4625	4579.2450	846.4581	0.1051	0.0194
23	74.4550	0.4750	4780.7100	904.9533	0.1098	0.0208
24	74.4675	0.4875	4982.1750	965.9670	0.1144	0.0222
25	74.4800	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	74.4925	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	74.5050	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	74.5175	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	74.5300	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	74.5425	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	74.5550	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	74.5675	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	74.5800	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	74.6050	0.6250	8183.8350	1861.8586	0.1879	0.0427
35	74.6300	0.6500	8831.7900	2074.5025	0.2027	0.0476
36	74.6550	0.6750	9479.7450	2303.3489	0.2176	0.0529
37	74.6800	0.7000	10127.7000	2548.3974	0.2325	0.0585
38	74.7050	0.7250	10775.6550	2809.6474	0.2474	0.0645
39	74.7300	0.7500	11423.6100	3087.0988	0.2622	0.0709
40	74.7550	0.7750	12071.5650	3380.7513	0.2771	0.0776
41	74.7800	0.8000	12719.5200	3690.6046	0.2920	0.0847
42	78.7100	4.7300	12719.5200	53678.3182	0.2920	1.2323

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| Variable storage data for node | DI-20
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	74.0500	0.0000	4.3560	0.0000	0.0001	0.0000
2	74.0750	0.0250	150.8265	1.5068	0.0035	0.0000
3	74.1000	0.0500	297.2970	7.0058	0.0068	0.0002
4	74.1250	0.0750	443.7675	16.2082	0.0102	0.0004
5	74.1500	0.1000	590.2380	29.0898	0.0135	0.0007
6	74.1750	0.1250	736.7085	45.6428	0.0169	0.0010
7	74.2000	0.1500	883.1790	65.8638	0.0203	0.0015
8	74.2250	0.1750	1029.6495	89.7507	0.0236	0.0021
9	74.2500	0.2000	1176.1200	117.3026	0.0270	0.0027
10	74.2750	0.2250	1475.5950	150.3783	0.0339	0.0035
11	74.3000	0.2500	1775.0700	190.9540	0.0408	0.0044
12	74.3250	0.2750	2074.5450	239.0256	0.0476	0.0055
13	74.3500	0.3000	2374.0200	294.5906	0.0545	0.0068
14	74.3750	0.3250	2673.4950	357.6475	0.0614	0.0082
15	74.4000	0.3500	2972.9700	428.1952	0.0683	0.0098
16	74.4250	0.3750	3272.4450	506.2330	0.0751	0.0116
17	74.4500	0.4000	3571.9200	591.7602	0.0820	0.0136
18	74.4625	0.4125	3773.3850	637.6626	0.0866	0.0146
19	74.4750	0.4250	3974.8500	686.0836	0.0912	0.0158
20	74.4875	0.4375	4176.3150	737.0232	0.0959	0.0169
21	74.5000	0.4500	4377.7800	790.4814	0.1005	0.0181
22	74.5125	0.4625	4579.2450	846.4581	0.1051	0.0194
23	74.5250	0.4750	4780.7100	904.9533	0.1098	0.0208
24	74.5375	0.4875	4982.1750	965.9670	0.1144	0.0222
25	74.5500	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	74.5625	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	74.5750	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	74.5875	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	74.6000	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	74.6125	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	74.6250	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	74.6375	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	74.6500	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	74.6750	0.6250	8183.8350	1861.8586	0.1879	0.0427
35	74.7000	0.6500	8831.7900	2074.5025	0.2027	0.0476
36	74.7250	0.6750	9479.7450	2303.3489	0.2176	0.0529
37	74.7500	0.7000	10127.7000	2548.3974	0.2325	0.0585
38	74.7750	0.7250	10775.6550	2809.6474	0.2474	0.0645
39	74.8000	0.7500	11423.6100	3087.0988	0.2622	0.0709
40	74.8250	0.7750	12071.5650	3380.7513	0.2771	0.0776
41	74.8500	0.8000	12719.5200	3690.6046	0.2920	0.0847
42	79.3100	5.2600	12719.5200	60419.6638	0.2920	1.3870

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| Variable storage data for node | DI-19
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	74.5500	0.0000	4.3560	0.0000	0.0001	0.0000
2	74.5750	0.0250	150.8265	1.5068	0.0035	0.0000
3	74.6000	0.0500	297.2970	7.0058	0.0068	0.0002
4	74.6250	0.0750	443.7675	16.2082	0.0102	0.0004
5	74.6500	0.1000	590.2380	29.0898	0.0135	0.0007
6	74.6750	0.1250	736.7085	45.6428	0.0169	0.0010
7	74.7000	0.1500	883.1790	65.8638	0.0203	0.0015

8	74.7250	0.1750	1029.6495	89.7507	0.0236	0.0021
9	74.7500	0.2000	1176.1200	117.3026	0.0270	0.0027
10	74.7750	0.2250	1475.5950	150.3783	0.0339	0.0035
11	74.8000	0.2500	1775.0700	190.9540	0.0408	0.0044
12	74.8250	0.2750	2074.5450	239.0256	0.0476	0.0055
13	74.8500	0.3000	2374.0200	294.5906	0.0545	0.0068
14	74.8750	0.3250	2673.4950	357.6475	0.0614	0.0082
15	74.9000	0.3500	2972.9700	428.1952	0.0683	0.0098
16	74.9250	0.3750	3272.4450	506.2330	0.0751	0.0116
17	74.9500	0.4000	3571.9200	591.7602	0.0820	0.0136
18	74.9625	0.4125	3773.3850	637.6626	0.0866	0.0146
19	74.9750	0.4250	3974.8500	686.0836	0.0912	0.0158
20	74.9875	0.4375	4176.3150	737.0232	0.0959	0.0169
21	75.0000	0.4500	4377.7800	790.4814	0.1005	0.0181
22	75.0125	0.4625	4579.2450	846.4581	0.1051	0.0194
23	75.0250	0.4750	4780.7100	904.9533	0.1098	0.0208
24	75.0375	0.4875	4982.1750	965.9670	0.1144	0.0222
25	75.0500	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	75.0625	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	75.0750	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	75.0875	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	75.1000	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	75.1125	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	75.1250	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	75.1375	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	75.1500	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	75.1750	0.6250	8183.8350	1861.8586	0.1879	0.0427
35	75.2000	0.6500	8831.7900	2074.5025	0.2027	0.0476
36	75.2250	0.6750	9479.7450	2303.3489	0.2176	0.0529
37	75.2500	0.7000	10127.7000	2548.3974	0.2325	0.0585
38	75.2750	0.7250	10775.6550	2809.6474	0.2474	0.0645
39	75.3000	0.7500	11423.6100	3087.0988	0.2622	0.0709
40	75.3250	0.7750	12071.5650	3380.7513	0.2771	0.0776
41	75.3500	0.8000	12719.5200	3690.6046	0.2920	0.0847
42	80.2100	5.6600	12719.5200	65507.4718	0.2920	1.5038

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| Variable storage data for node | MHI-104
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	70.8800	0.0000	87.1200	0.0000	0.0020	0.0000
2	71.1925	0.3125	5521.2300	656.4478	0.1268	0.0151
3	71.5050	0.6250	10955.3400	3182.8963	0.2515	0.0731
4	71.8175	0.9375	16389.4500	7427.1141	0.3762	0.1705
5	72.1300	1.2500	21823.5600	13377.6702	0.5010	0.3071
6	72.4425	1.5625	27257.6700	21030.8962	0.6258	0.4828
7	72.7550	1.8750	32691.7800	30385.1438	0.7505	0.6975
8	73.0675	2.1875	38125.8900	41439.5299	0.8752	0.9513
9	73.3800	2.5000	43560.0000	54193.5256	1.0000	1.2441
10	80.4000	9.5200	43560.0000	359984.7256	1.0000	8.2641

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| Variable storage data for node | CI-194
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	72.7600	0.0000	4.3560	0.0000	0.0001	0.0000
2	72.7850	0.0250	150.8265	1.5068	0.0035	0.0000
3	72.8100	0.0500	297.2970	7.0058	0.0068	0.0002
4	72.8350	0.0750	443.7675	16.2082	0.0102	0.0004
5	72.8600	0.1000	590.2380	29.0898	0.0135	0.0007
6	72.8850	0.1250	736.7085	45.6428	0.0169	0.0010
7	72.9100	0.1500	883.1790	65.8638	0.0203	0.0015
8	72.9350	0.1750	1029.6495	89.7507	0.0236	0.0021
9	72.9600	0.2000	1176.1200	117.3026	0.0270	0.0027
10	72.9850	0.2250	1475.5950	150.3783	0.0339	0.0035
11	73.0100	0.2500	1775.0700	190.9540	0.0408	0.0044
12	73.0350	0.2750	2074.5450	239.0256	0.0476	0.0055
13	73.0600	0.3000	2374.0200	294.5906	0.0545	0.0068
14	73.0850	0.3250	2673.4950	357.6475	0.0614	0.0082
15	73.1100	0.3500	2972.9700	428.1952	0.0683	0.0098
16	73.1350	0.3750	3272.4450	506.2330	0.0751	0.0116
17	73.1600	0.4000	3571.9200	591.7602	0.0820	0.0136
18	73.1725	0.4125	3773.3850	637.6626	0.0866	0.0146
19	73.1850	0.4250	3974.8500	686.0836	0.0912	0.0158
20	73.1975	0.4375	4176.3150	737.0232	0.0959	0.0169
21	73.2100	0.4500	4377.7800	790.4814	0.1005	0.0181
22	73.2225	0.4625	4579.2450	846.4581	0.1051	0.0194
23	73.2350	0.4750	4780.7100	904.9533	0.1098	0.0208
24	73.2475	0.4875	4982.1750	965.9670	0.1144	0.0222
25	73.2600	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	73.2725	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	73.2850	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	73.2975	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	73.3100	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	73.3225	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	73.3350	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	73.3475	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	73.3600	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	73.3850	0.6250	8183.8350	1861.8586	0.1879	0.0427
35	73.4100	0.6500	8831.7900	2074.5025	0.2027	0.0476
36	73.4350	0.6750	9479.7450	2303.3489	0.2176	0.0529
37	73.4600	0.7000	10127.7000	2548.3974	0.2325	0.0585
38	73.4850	0.7250	10775.6550	2809.6474	0.2474	0.0645
39	73.5100	0.7500	11423.6100	3087.0988	0.2622	0.0709
40	73.5350	0.7750	12071.5650	3380.7513	0.2771	0.0776
41	73.5600	0.8000	12719.5200	3690.6046	0.2920	0.0847
42	79.6000	6.8400	12719.5200	80516.5054	0.2920	1.8484

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| Variable storage data for node | DI-18
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	74.3300	0.0000	4.3560	0.0000	0.0001	0.0000
2	74.3550	0.0250	150.8265	1.5068	0.0035	0.0000
3	74.3800	0.0500	297.2970	7.0058	0.0068	0.0002
4	74.4050	0.0750	443.7675	16.2082	0.0102	0.0004
5	74.4300	0.1000	590.2380	29.0898	0.0135	0.0007
6	74.4550	0.1250	736.7085	45.6428	0.0169	0.0010
7	74.4800	0.1500	883.1790	65.8638	0.0203	0.0015
8	74.5050	0.1750	1029.6495	89.7507	0.0236	0.0021
9	74.5300	0.2000	1176.1200	117.3026	0.0270	0.0027
10	74.5550	0.2250	1475.5950	150.3783	0.0339	0.0035
11	74.5800	0.2500	1775.0700	190.9540	0.0408	0.0044
12	74.6050	0.2750	2074.5450	239.0256	0.0476	0.0055
13	74.6300	0.3000	2374.0200	294.5906	0.0545	0.0068
14	74.6550	0.3250	2673.4950	357.6475	0.0614	0.0082
15	74.6800	0.3500	2972.9700	428.1952	0.0683	0.0098
16	74.7050	0.3750	3272.4450	506.2330	0.0751	0.0116
17	74.7300	0.4000	3571.9200	591.7602	0.0820	0.0136
18	74.7425	0.4125	3773.3850	637.6626	0.0866	0.0146
19	74.7550	0.4250	3974.8500	686.0836	0.0912	0.0158
20	74.7675	0.4375	4176.3150	737.0232	0.0959	0.0169

21	74.7800	0.4500	4377.7800	790.4814	0.1005	0.0181
22	74.7925	0.4625	4579.2450	846.4581	0.1051	0.0194
23	74.8050	0.4750	4780.7100	904.9533	0.1098	0.0208
24	74.8175	0.4875	4982.1750	965.9670	0.1144	0.0222
25	74.8300	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	74.8425	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	74.8550	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	74.8675	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	74.8800	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	74.8925	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	74.9050	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	74.9175	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	74.9300	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	74.9550	0.6250	8183.8350	1861.8586	0.1879	0.0427
35	74.9800	0.6500	8831.7900	2074.5025	0.2027	0.0476
36	75.0050	0.6750	9479.7450	2303.3489	0.2176	0.0529
37	75.0300	0.7000	10127.7000	2548.3974	0.2325	0.0585
38	75.0550	0.7250	10775.6550	2809.6474	0.2474	0.0645
39	75.0800	0.7500	11423.6100	3087.0988	0.2622	0.0709
40	75.1050	0.7750	12071.5650	3380.7513	0.2771	0.0776
41	75.1300	0.8000	12719.5200	3690.6046	0.2920	0.0847
42	79.4000	5.0700	12719.5200	58002.9550	0.2920	1.3316

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| Variable storage data for node | CI-193
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	74.4700	0.0000	4.3560	0.0000	0.0001	0.0000
2	74.4950	0.0250	150.8265	1.5068	0.0035	0.0000
3	74.5200	0.0500	297.2970	7.0058	0.0068	0.0002
4	74.5450	0.0750	443.7675	16.2082	0.0102	0.0004
5	74.5700	0.1000	590.2380	29.0898	0.0135	0.0007
6	74.5950	0.1250	736.7085	45.6428	0.0169	0.0010
7	74.6200	0.1500	883.1790	65.8638	0.0203	0.0015
8	74.6450	0.1750	1029.6495	89.7507	0.0236	0.0021
9	74.6700	0.2000	1176.1200	117.3026	0.0270	0.0027
10	74.6950	0.2250	1475.5950	150.3783	0.0339	0.0035
11	74.7200	0.2500	1775.0700	190.9540	0.0408	0.0044
12	74.7450	0.2750	2074.5450	239.0256	0.0476	0.0055
13	74.7700	0.3000	2374.0200	294.5906	0.0545	0.0068
14	74.7950	0.3250	2673.4950	357.6475	0.0614	0.0082
15	74.8200	0.3500	2972.9700	428.1952	0.0683	0.0098
16	74.8450	0.3750	3272.4450	506.2330	0.0751	0.0116
17	74.8700	0.4000	3571.9200	591.7602	0.0820	0.0136
18	74.8825	0.4125	3773.3850	637.6626	0.0866	0.0146
19	74.8950	0.4250	3974.8500	686.0836	0.0912	0.0158
20	74.9075	0.4375	4176.3150	737.0232	0.0959	0.0169
21	74.9200	0.4500	4377.7800	790.4814	0.1005	0.0181
22	74.9325	0.4625	4579.2450	846.4581	0.1051	0.0194
23	74.9450	0.4750	4780.7100	904.9533	0.1098	0.0208
24	74.9575	0.4875	4982.1750	965.9670	0.1144	0.0222
25	74.9700	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	74.9825	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	74.9950	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	75.0075	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	75.0200	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	75.0325	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	75.0450	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	75.0575	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	75.0700	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	75.0950	0.6250	8183.8350	1861.8586	0.1879	0.0427
35	75.1200	0.6500	8831.7900	2074.5025	0.2027	0.0476
36	75.1450	0.6750	9479.7450	2303.3489	0.2176	0.0529
37	75.1700	0.7000	10127.7000	2548.3974	0.2325	0.0585
38	75.1950	0.7250	10775.6550	2809.6474	0.2474	0.0645
39	75.2200	0.7500	11423.6100	3087.0988	0.2622	0.0709
40	75.2450	0.7750	12071.5650	3380.7513	0.2771	0.0776
41	75.2700	0.8000	12719.5200	3690.6046	0.2920	0.0847
42	79.4000	4.9300	12719.5200	56222.2222	0.2920	1.2907

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| Variable storage data for node | DI-21
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	72.9100	0.0000	4.3560	0.0000	0.0001	0.0000
2	72.9350	0.0250	150.8265	1.5068	0.0035	0.0000
3	72.9600	0.0500	297.2970	7.0058	0.0068	0.0002
4	72.9850	0.0750	443.7675	16.2082	0.0102	0.0004
5	73.0100	0.1000	590.2380	29.0898	0.0135	0.0007
6	73.0350	0.1250	736.7085	45.6428	0.0169	0.0010
7	73.0600	0.1500	883.1790	65.8638	0.0203	0.0015
8	73.0850	0.1750	1029.6495	89.7507	0.0236	0.0021
9	73.1100	0.2000	1176.1200	117.3026	0.0270	0.0027
10	73.1350	0.2250	1475.5950	150.3783	0.0339	0.0035
11	73.1600	0.2500	1775.0700	190.9540	0.0408	0.0044
12	73.1850	0.2750	2074.5450	239.0256	0.0476	0.0055
13	73.2100	0.3000	2374.0200	294.5906	0.0545	0.0068
14	73.2350	0.3250	2673.4950	357.6475	0.0614	0.0082
15	73.2600	0.3500	2972.9700	428.1952	0.0683	0.0098
16	73.2850	0.3750	3272.4450	506.2330	0.0751	0.0116
17	73.3100	0.4000	3571.9200	591.7602	0.0820	0.0136
18	73.3225	0.4125	3773.3850	637.6626	0.0866	0.0146
19	73.3350	0.4250	3974.8500	686.0836	0.0912	0.0158
20	73.3475	0.4375	4176.3150	737.0232	0.0959	0.0169
21	73.3600	0.4500	4377.7800	790.4814	0.1005	0.0181
22	73.3725	0.4625	4579.2450	846.4581	0.1051	0.0194
23	73.3850	0.4750	4780.7100	904.9533	0.1098	0.0208
24	73.3975	0.4875	4982.1750	965.9670	0.1144	0.0222
25	73.4100	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	73.4225	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	73.4350	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	73.4475	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	73.4600	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	73.4725	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	73.4850	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	73.4975	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	73.5100	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	73.5350	0.6250	8183.8350	1861.8586	0.1879	0.0427
35	73.5600	0.6500	8831.7900	2074.5025	0.2027	0.0476
36	73.5850	0.6750	9479.7450	2303.3489	0.2176	0.0529
37	73.6100	0.7000	10127.7000	2548.3974	0.2325	0.0585
38	73.6350	0.7250	10775.6550	2809.6474	0.2474	0.0645
39	73.6600	0.7500	11423.6100	3087.0988	0.2622	0.0709
40	73.6850	0.7750	12071.5650	3380.7513	0.2771	0.0776
41	73.7100	0.8000	12719.5200	3690.6046	0.2920	0.0847
42	79.3900	6.4800	12719.5200	75937.4782	0.2920	1.7433

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| Variable storage data for node | CI-195
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	73.2800	0.0000	4.3560	0.0000	0.0001	0.0000

2	73.3050	0.0250	150.8265	1.5068	0.0035	0.0000
3	73.3300	0.0500	297.2970	7.0058	0.0068	0.0002
4	73.3550	0.0750	443.7675	16.2082	0.0102	0.0004
5	73.3800	0.1000	590.2380	29.0898	0.0135	0.0007
6	73.4050	0.1250	736.7085	45.6428	0.0169	0.0010
7	73.4300	0.1500	883.1790	65.8638	0.0203	0.0015
8	73.4550	0.1750	1029.6495	89.7507	0.0236	0.0021
9	73.4800	0.2000	1176.1200	117.3026	0.0270	0.0027
10	73.5050	0.2250	1475.5950	150.3783	0.0339	0.0035
11	73.5300	0.2500	1775.0700	190.9540	0.0408	0.0044
12	73.5550	0.2750	2074.5450	239.0256	0.0476	0.0055
13	73.5800	0.3000	2374.0200	294.5906	0.0545	0.0068
14	73.6050	0.3250	2673.4950	357.6475	0.0614	0.0082
15	73.6300	0.3500	2972.9700	428.1952	0.0683	0.0098
16	73.6550	0.3750	3272.4450	506.2330	0.0751	0.0116
17	73.6800	0.4000	3571.9200	591.7602	0.0820	0.0136
18	73.6925	0.4125	3773.3850	637.6626	0.0866	0.0146
19	73.7050	0.4250	3974.8500	686.0836	0.0912	0.0158
20	73.7175	0.4375	4176.3150	737.0232	0.0959	0.0169
21	73.7300	0.4500	4377.7800	790.4814	0.1005	0.0181
22	73.7425	0.4625	4579.2450	846.4581	0.1051	0.0194
23	73.7550	0.4750	4780.7100	904.9533	0.1098	0.0208
24	73.7675	0.4875	4982.1750	965.9670	0.1144	0.0222
25	73.7800	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	73.7925	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	73.8050	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	73.8175	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	73.8300	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	73.8425	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	73.8550	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	73.8675	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	73.8800	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	73.9050	0.6250	8183.8350	1861.8586	0.1879	0.0427
35	73.9300	0.6500	8831.7900	2074.5025	0.2027	0.0476
36	73.9550	0.6750	9479.7450	2303.3489	0.2176	0.0529
37	73.9800	0.7000	10127.7000	2548.3974	0.2325	0.0585
38	74.0050	0.7250	10775.6550	2809.6474	0.2474	0.0645
39	74.0300	0.7500	11423.6100	3087.0988	0.2622	0.0709
40	74.0550	0.7750	12071.5650	3380.7513	0.2771	0.0776
41	74.0800	0.8000	12719.5200	3690.6046	0.2920	0.0847
42	79.6100	6.3300	12719.5200	74029.5502	0.2920	1.6995

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| Variable storage data for node | CI-197
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	75.7600	0.0000	4.3560	0.0000	0.0001	0.0000
2	75.7850	0.0250	150.8265	1.5068	0.0035	0.0000
3	75.8100	0.0500	297.2970	7.0058	0.0068	0.0002
4	75.8350	0.0750	443.7675	16.2082	0.0102	0.0004
5	75.8600	0.1000	590.2380	29.0898	0.0135	0.0007
6	75.8850	0.1250	736.7085	45.6428	0.0169	0.0010
7	75.9100	0.1500	883.1790	65.8638	0.0203	0.0015
8	75.9350	0.1750	1029.6495	89.7507	0.0236	0.0021
9	75.9600	0.2000	1176.1200	117.3026	0.0270	0.0027
10	75.9850	0.2250	1475.5950	150.3783	0.0339	0.0035
11	76.0100	0.2500	1775.0700	190.9540	0.0408	0.0044
12	76.0350	0.2750	2074.5450	239.0256	0.0476	0.0055
13	76.0600	0.3000	2374.0200	294.5906	0.0545	0.0068
14	76.0850	0.3250	2673.4950	357.6475	0.0614	0.0082
15	76.1100	0.3500	2972.9700	428.1952	0.0683	0.0098
16	76.1350	0.3750	3272.4450	506.2330	0.0751	0.0116
17	76.1600	0.4000	3571.9200	591.7602	0.0820	0.0136
18	76.1725	0.4125	3773.3850	637.6626	0.0866	0.0146
19	76.1850	0.4250	3974.8500	686.0836	0.0912	0.0158
20	76.1975	0.4375	4176.3150	737.0232	0.0959	0.0169
21	76.2100	0.4500	4377.7800	790.4814	0.1005	0.0181
22	76.2225	0.4625	4579.2450	846.4581	0.1051	0.0194
23	76.2350	0.4750	4780.7100	904.9533	0.1098	0.0208
24	76.2475	0.4875	4982.1750	965.9670	0.1144	0.0222
25	76.2600	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	76.2725	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	76.2850	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	76.2975	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	76.3100	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	76.3225	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	76.3350	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	76.3475	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	76.3600	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	76.3850	0.6250	8183.8350	1861.8586	0.1879	0.0427
35	76.4100	0.6500	8831.7900	2074.5025	0.2027	0.0476
36	76.4350	0.6750	9479.7450	2303.3489	0.2176	0.0529
37	76.4600	0.7000	10127.7000	2548.3974	0.2325	0.0585
38	76.4850	0.7250	10775.6550	2809.6474	0.2474	0.0645
39	76.5100	0.7500	11423.6100	3087.0988	0.2622	0.0709
40	76.5350	0.7750	12071.5650	3380.7513	0.2771	0.0776
41	76.5600	0.8000	12719.5200	3690.6046	0.2920	0.0847
42	79.8600	4.1000	12719.5200	45665.0206	0.2920	1.0483

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| Variable storage data for node | DI-22
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	73.9400	0.0000	4.3560	0.0000	0.0001	0.0000
2	73.9650	0.0250	150.8265	1.5068	0.0035	0.0000
3	73.9900	0.0500	297.2970	7.0058	0.0068	0.0002
4	74.0150	0.0750	443.7675	16.2082	0.0102	0.0004
5	74.0400	0.1000	590.2380	29.0898	0.0135	0.0007
6	74.0650	0.1250	736.7085	45.6428	0.0169	0.0010
7	74.0900	0.1500	883.1790	65.8638	0.0203	0.0015
8	74.1150	0.1750	1029.6495	89.7507	0.0236	0.0021
9	74.1400	0.2000	1176.1200	117.3026	0.0270	0.0027
10	74.1650	0.2250	1475.5950	150.3783	0.0339	0.0035
11	74.1900	0.2500	1775.0700	190.9540	0.0408	0.0044
12	74.2150	0.2750	2074.5450	239.0256	0.0476	0.0055
13	74.2400	0.3000	2374.0200	294.5906	0.0545	0.0068
14	74.2650	0.3250	2673.4950	357.6475	0.0614	0.0082
15	74.2900	0.3500	2972.9700	428.1952	0.0683	0.0098
16	74.3150	0.3750	3272.4450	506.2330	0.0751	0.0116
17	74.3400	0.4000	3571.9200	591.7602	0.0820	0.0136
18	74.3525	0.4125	3773.3850	637.6626	0.0866	0.0146
19	74.3650	0.4250	3974.8500	686.0836	0.0912	0.0158
20	74.3775	0.4375	4176.3150	737.0232	0.0959	0.0169
21	74.3900	0.4500	4377.7800	790.4814	0.1005	0.0181
22	74.4025	0.4625	4579.2450	846.4581	0.1051	0.0194
23	74.4150	0.4750	4780.7100	904.9533	0.1098	0.0208
24	74.4275	0.4875	4982.1750	965.9670	0.1144	0.0222
25	74.4400	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	74.4525	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	74.4650	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	74.4775	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	74.4900	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	74.5025	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	74.5150	0.5750	6947.8200	1484.3840	0.1595	0.0341

32	74.5275	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	74.5400	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	74.5650	0.6250	8183.8350	1861.8586	0.1879	0.0427
35	74.5900	0.6500	8831.7900	2074.5025	0.2027	0.0476
36	74.6150	0.6750	9479.7450	2303.3489	0.2176	0.0529
37	74.6400	0.7000	10127.7000	2548.3974	0.2325	0.0585
38	74.6650	0.7250	10775.6550	2809.6474	0.2474	0.0645
39	74.6900	0.7500	11423.6100	3087.0988	0.2622	0.0709
40	74.7150	0.7750	12071.5650	3380.7513	0.2771	0.0776
41	74.7400	0.8000	12719.5200	3690.6046	0.2920	0.0847
42	79.5000	5.5600	12719.5200	64235.5198	0.2920	1.4746

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| Variable storage data for node | DI-23
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	73.1400	0.0000	4.3560	0.0000	0.0001	0.0000
2	73.1650	0.0250	150.8265	1.5068	0.0035	0.0000
3	73.1900	0.0500	297.2970	7.0058	0.0068	0.0002
4	73.2150	0.0750	443.7675	16.2082	0.0102	0.0004
5	73.2400	0.1000	590.2380	29.0898	0.0135	0.0007
6	73.2650	0.1250	736.7085	45.6428	0.0169	0.0010
7	73.2900	0.1500	883.1790	65.8638	0.0203	0.0015
8	73.3150	0.1750	1029.6495	89.7507	0.0236	0.0021
9	73.3400	0.2000	1176.1200	117.3026	0.0270	0.0027
10	73.3650	0.2250	1475.5950	150.3783	0.0339	0.0035
11	73.3900	0.2500	1775.0700	190.9540	0.0408	0.0044
12	73.4150	0.2750	2074.5450	239.0256	0.0476	0.0055
13	73.4400	0.3000	2374.0200	294.5906	0.0545	0.0068
14	73.4650	0.3250	2673.4950	357.6475	0.0614	0.0082
15	73.4900	0.3500	2972.9700	428.1952	0.0683	0.0098
16	73.5150	0.3750	3272.4450	506.2330	0.0751	0.0116
17	73.5400	0.4000	3571.9200	591.7602	0.0820	0.0136
18	73.5525	0.4125	3773.3850	637.6626	0.0866	0.0146
19	73.5650	0.4250	3974.8500	686.0836	0.0912	0.0158
20	73.5775	0.4375	4176.3150	737.0232	0.0959	0.0169
21	73.5900	0.4500	4377.7800	790.4814	0.1005	0.0181
22	73.6025	0.4625	4579.2450	846.4581	0.1051	0.0194
23	73.6150	0.4750	4780.7100	904.9533	0.1098	0.0208
24	73.6275	0.4875	4982.1750	965.9670	0.1144	0.0222
25	73.6400	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	73.6525	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	73.6650	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	73.6775	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	73.6900	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	73.7025	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	73.7150	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	73.7275	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	73.7400	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	73.7650	0.6250	8183.8350	1861.8586	0.1879	0.0427
35	73.7900	0.6500	8831.7900	2074.5025	0.2027	0.0476
36	73.8150	0.6750	9479.7450	2303.3489	0.2176	0.0529
37	73.8400	0.7000	10127.7000	2548.3974	0.2325	0.0585
38	73.8650	0.7250	10775.6550	2809.6474	0.2474	0.0645
39	73.8900	0.7500	11423.6100	3087.0988	0.2622	0.0709
40	73.9150	0.7750	12071.5650	3380.7513	0.2771	0.0776
41	73.9400	0.8000	12719.5200	3690.6046	0.2920	0.0847
42	80.1000	6.9600	12719.5200	82042.8478	0.2920	1.8834

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| Variable storage data for node | MHI-102
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	71.3200	0.0000	87.1200	0.0000	0.0020	0.0000
2	71.6325	0.3125	2254.2300	290.0529	0.0517	0.0067
3	71.9450	0.6250	4421.3400	1314.2800	0.1015	0.0302
4	72.2575	0.9375	6588.4500	3023.3416	0.1512	0.0694
5	72.5700	1.2500	8755.5600	5412.8324	0.2010	0.1243
6	72.8825	1.5625	10922.6700	8481.3218	0.2508	0.1947
7	73.1950	1.8750	13089.7800	12228.1635	0.3005	0.2807
8	73.5075	2.1875	15256.8900	16653.0098	0.3502	0.3823
9	73.8200	2.5000	17424.0000	21755.6525	0.4000	0.4994
10	79.7100	8.3900	17424.0000	124383.0125	0.4000	2.8554

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| Variable storage data for node | MHI-101
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	71.5900	0.0000	87.1200	0.0000	0.0020	0.0000
2	71.9025	0.3125	2254.2300	290.0529	0.0517	0.0067
3	72.2150	0.6250	4421.3400	1314.2800	0.1015	0.0302
4	72.5275	0.9375	6588.4500	3023.3416	0.1512	0.0694
5	72.8400	1.2500	8755.5600	5412.8324	0.2010	0.1243
6	73.1525	1.5625	10922.6700	8481.3218	0.2508	0.1947
7	73.4650	1.8750	13089.7800	12228.1635	0.3005	0.2807
8	73.7775	2.1875	15256.8900	16653.0098	0.3502	0.3823
9	74.0900	2.5000	17424.0000	21755.6525	0.4000	0.4994
10	79.7000	8.1100	17424.0000	119504.2925	0.4000	2.7434

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| Variable storage data for node | CI-191
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	72.1800	0.0000	4.3560	0.0000	0.0001	0.0000
2	72.2050	0.0250	150.8265	1.5068	0.0035	0.0000
3	72.2300	0.0500	297.2970	7.0058	0.0068	0.0002
4	72.2550	0.0750	443.7675	16.2082	0.0102	0.0004
5	72.2800	0.1000	590.2380	29.0898	0.0135	0.0007
6	72.3050	0.1250	736.7085	45.6428	0.0169	0.0010
7	72.3300	0.1500	883.1790	65.8638	0.0203	0.0015
8	72.3550	0.1750	1029.6495	89.7507	0.0236	0.0021
9	72.3800	0.2000	1176.1200	117.3026	0.0270	0.0027
10	72.4050	0.2250	1475.5950	150.3783	0.0339	0.0035
11	72.4300	0.2500	1775.0700	190.9540	0.0408	0.0044
12	72.4550	0.2750	2074.5450	239.0256	0.0476	0.0055
13	72.4800	0.3000	2374.0200	294.5906	0.0545	0.0068
14	72.5050	0.3250	2673.4950	357.6475	0.0614	0.0082
15	72.5300	0.3500	2972.9700	428.1952	0.0683	0.0098
16	72.5550	0.3750	3272.4450	506.2330	0.0751	0.0116
17	72.5800	0.4000	3571.9200	591.7602	0.0820	0.0136
18	72.5925	0.4125	3773.3850	637.6626	0.0866	0.0146
19	72.6050	0.4250	3974.8500	686.0836	0.0912	0.0158
20	72.6175	0.4375	4176.3150	737.0232	0.0959	0.0169
21	72.6300	0.4500	4377.7800	790.4814	0.1005	0.0181
22	72.6425	0.4625	4579.2450	846.4581	0.1051	0.0194
23	72.6550	0.4750	4780.7100	904.9533	0.1098	0.0208
24	72.6675	0.4875	4982.1750	965.9670	0.1144	0.0222
25	72.6800	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	72.6925	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	72.7050	0.5250	5771.7000	1166.4244	0.1325	0.0268

28	72.7175	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	72.7300	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	72.7425	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	72.7550	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	72.7675	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	72.7800	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	72.8050	0.6250	8183.8350	1861.8586	0.1879	0.0427
35	72.8300	0.6500	8831.7900	2074.5025	0.2027	0.0476
36	72.8550	0.6750	9479.7450	2303.3489	0.2176	0.0529
37	72.8800	0.7000	10127.7000	2548.3974	0.2325	0.0585
38	72.9050	0.7250	10775.6550	2809.6474	0.2474	0.0645
39	72.9300	0.7500	11423.6100	3087.0988	0.2622	0.0709
40	72.9550	0.7750	12071.5650	3380.7513	0.2771	0.0776
41	72.9800	0.8000	12719.5200	3690.6046	0.2920	0.0847
42	79.6000	7.4200	12719.5200	87893.8270	0.2920	2.0178

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| Variable storage data for node | CI-192
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	74.2300	0.0000	4.3560	0.0000	0.0001	0.0000
2	74.2550	0.0250	150.8265	1.5068	0.0035	0.0000
3	74.2800	0.0500	297.2970	7.0058	0.0068	0.0002
4	74.3050	0.0750	443.7675	16.2082	0.0102	0.0004
5	74.3300	0.1000	590.2380	29.0898	0.0135	0.0007
6	74.3550	0.1250	736.7085	45.6428	0.0169	0.0010
7	74.3800	0.1500	883.1790	65.8638	0.0203	0.0015
8	74.4050	0.1750	1029.6495	89.7507	0.0236	0.0021
9	74.4300	0.2000	1176.1200	117.3026	0.0270	0.0027
10	74.4550	0.2250	1475.5950	150.3783	0.0339	0.0035
11	74.4800	0.2500	1775.0700	190.9540	0.0408	0.0044
12	74.5050	0.2750	2074.5450	239.0256	0.0476	0.0055
13	74.5300	0.3000	2374.0200	294.5906	0.0545	0.0068
14	74.5550	0.3250	2673.4950	357.6475	0.0614	0.0082
15	74.5800	0.3500	2972.9700	428.1952	0.0683	0.0098
16	74.6050	0.3750	3272.4450	506.2330	0.0751	0.0116
17	74.6300	0.4000	3571.9200	591.7602	0.0820	0.0136
18	74.6425	0.4125	3773.3850	637.6626	0.0866	0.0146
19	74.6550	0.4250	3974.8500	686.0836	0.0912	0.0158
20	74.6675	0.4375	4176.3150	737.0232	0.0959	0.0169
21	74.6800	0.4500	4377.7800	790.4814	0.1005	0.0181
22	74.6925	0.4625	4579.2450	846.4581	0.1051	0.0194
23	74.7050	0.4750	4780.7100	904.9533	0.1098	0.0208
24	74.7175	0.4875	4982.1750	965.9670	0.1144	0.0222
25	74.7300	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	74.7425	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	74.7550	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	74.7675	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	74.7800	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	74.7925	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	74.8050	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	74.8175	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	74.8300	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	74.8550	0.6250	8183.8350	1861.8586	0.1879	0.0427
35	74.8800	0.6500	8831.7900	2074.5025	0.2027	0.0476
36	74.9050	0.6750	9479.7450	2303.3489	0.2176	0.0529
37	74.9300	0.7000	10127.7000	2548.3974	0.2325	0.0585
38	74.9550	0.7250	10775.6550	2809.6474	0.2474	0.0645
39	74.9800	0.7500	11423.6100	3087.0988	0.2622	0.0709
40	75.0050	0.7750	12071.5650	3380.7513	0.2771	0.0776
41	75.0300	0.8000	12719.5200	3690.6046	0.2920	0.0847
42	79.0000	4.7700	12719.5200	54187.0990	0.2920	1.2440

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| Variable storage data for node | DI-24
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	74.6700	0.0000	4.3560	0.0000	0.0001	0.0000
2	74.6950	0.0250	150.8265	1.5068	0.0035	0.0000
3	74.7200	0.0500	297.2970	7.0058	0.0068	0.0002
4	74.7450	0.0750	443.7675	16.2082	0.0102	0.0004
5	74.7700	0.1000	590.2380	29.0898	0.0135	0.0007
6	74.7950	0.1250	736.7085	45.6428	0.0169	0.0010
7	74.8200	0.1500	883.1790	65.8638	0.0203	0.0015
8	74.8450	0.1750	1029.6495	89.7507	0.0236	0.0021
9	74.8700	0.2000	1176.1200	117.3026	0.0270	0.0027
10	74.8950	0.2250	1475.5950	150.3783	0.0339	0.0035
11	74.9200	0.2500	1775.0700	190.9540	0.0408	0.0044
12	74.9450	0.2750	2074.5450	239.0256	0.0476	0.0055
13	74.9700	0.3000	2374.0200	294.5906	0.0545	0.0068
14	74.9950	0.3250	2673.4950	357.6475	0.0614	0.0082
15	75.0200	0.3500	2972.9700	428.1952	0.0683	0.0098
16	75.0450	0.3750	3272.4450	506.2330	0.0751	0.0116
17	75.0700	0.4000	3571.9200	591.7602	0.0820	0.0136
18	75.0825	0.4125	3773.3850	637.6626	0.0866	0.0146
19	75.0950	0.4250	3974.8500	686.0836	0.0912	0.0158
20	75.1075	0.4375	4176.3150	737.0232	0.0959	0.0169
21	75.1200	0.4500	4377.7800	790.4814	0.1005	0.0181
22	75.1325	0.4625	4579.2450	846.4581	0.1051	0.0194
23	75.1450	0.4750	4780.7100	904.9533	0.1098	0.0208
24	75.1575	0.4875	4982.1750	965.9670	0.1144	0.0222
25	75.1700	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	75.1825	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	75.1950	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	75.2075	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	75.2200	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	75.2325	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	75.2450	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	75.2575	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	75.2700	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	75.2950	0.6250	8183.8350	1861.8586	0.1879	0.0427
35	75.3200	0.6500	8831.7900	2074.5025	0.2027	0.0476
36	75.3450	0.6750	9479.7450	2303.3489	0.2176	0.0529
37	75.3700	0.7000	10127.7000	2548.3974	0.2325	0.0585
38	75.3950	0.7250	10775.6550	2809.6474	0.2474	0.0645
39	75.4200	0.7500	11423.6100	3087.0988	0.2622	0.0709
40	75.4450	0.7750	12071.5650	3380.7513	0.2771	0.0776
41	75.4700	0.8000	12719.5200	3690.6046	0.2920	0.0847
42	79.8100	5.1400	12719.5200	58893.3214	0.2920	1.3520

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| Variable storage data for node | CI-161A
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	77.5800	0.0000	4.3560	0.0000	0.0001	0.0000
2	77.6050	0.0250	150.8265	1.5068	0.0035	0.0000
3	77.6300	0.0500	297.2970	7.0058	0.0068	0.0002
4	77.6550	0.0750	443.7675	16.2082	0.0102	0.0004
5	77.6800	0.1000	590.2380	29.0898	0.0135	0.0007
6	77.7050	0.1250	736.7085	45.6428	0.0169	0.0010
7	77.7300	0.1500	883.1790	65.8638	0.0203	0.0015
8	77.7550	0.1750	1029.6495	89.7507	0.0236	0.0021

9	77.7800	0.2000	1176.1200	117.3026	0.0270	0.0027
10	77.8050	0.2250	1475.5950	150.3783	0.0339	0.0035
11	77.8300	0.2500	1775.0700	190.9540	0.0408	0.0044
12	77.8550	0.2750	2074.5450	239.0256	0.0476	0.0055
13	77.8800	0.3000	2374.0200	294.5906	0.0545	0.0068
14	77.9050	0.3250	2673.4950	357.6475	0.0614	0.0082
15	77.9300	0.3500	2972.9700	428.1952	0.0683	0.0098
16	77.9550	0.3750	3272.4450	506.2330	0.0751	0.0116
17	77.9800	0.4000	3571.9200	591.7602	0.0820	0.0136
18	77.9925	0.4125	3773.3850	637.6626	0.0866	0.0146
19	78.0050	0.4250	3974.8500	686.0836	0.0912	0.0158
20	78.0175	0.4375	4176.3150	737.0232	0.0959	0.0169
21	78.0300	0.4500	4377.7800	790.4814	0.1005	0.0181
22	78.0425	0.4625	4579.2450	846.4581	0.1051	0.0194
23	78.0550	0.4750	4780.7100	904.9533	0.1098	0.0208
24	78.0675	0.4875	4982.1750	965.9670	0.1144	0.0222
25	78.0800	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	78.0925	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	78.1050	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	78.1175	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	78.1300	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	78.1425	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	78.1550	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	78.1675	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	78.1800	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	78.2050	0.6250	8183.8350	1861.8586	0.1879	0.0427
35	78.2300	0.6500	8831.7900	2074.5025	0.2027	0.0476
36	78.2550	0.6750	9479.7450	2303.3489	0.2176	0.0529
37	78.2800	0.7000	10127.7000	2548.3974	0.2325	0.0585
38	78.3050	0.7250	10775.6550	2809.6474	0.2474	0.0645
39	78.3300	0.7500	11423.6100	3087.0988	0.2622	0.0709
40	78.3550	0.7750	12071.5650	3380.7513	0.2771	0.0776
41	78.3800	0.8000	12719.5200	3690.6046	0.2920	0.0847
42	82.2800	4.7000	12719.5200	53296.7326	0.2920	1.2235

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| Variable storage data for node | CI-167
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	77.7000	0.0000	4.3560	0.0000	0.0001	0.0000
2	77.7250	0.0250	150.8265	1.5068	0.0035	0.0000
3	77.7500	0.0500	297.2970	7.0058	0.0068	0.0002
4	77.7750	0.0750	443.7675	16.2082	0.0102	0.0004
5	77.8000	0.1000	590.2380	29.0898	0.0135	0.0007
6	77.8250	0.1250	736.7085	45.6428	0.0169	0.0010
7	77.8500	0.1500	883.1790	65.8638	0.0203	0.0015
8	77.8750	0.1750	1029.6495	89.7507	0.0236	0.0021
9	77.9000	0.2000	1176.1200	117.3026	0.0270	0.0027
10	77.9250	0.2250	1475.5950	150.3783	0.0339	0.0035
11	77.9500	0.2500	1775.0700	190.9540	0.0408	0.0044
12	77.9750	0.2750	2074.5450	239.0256	0.0476	0.0055
13	78.0000	0.3000	2374.0200	294.5906	0.0545	0.0068
14	78.0250	0.3250	2673.4950	357.6475	0.0614	0.0082
15	78.0500	0.3500	2972.9700	428.1952	0.0683	0.0098
16	78.0750	0.3750	3272.4450	506.2330	0.0751	0.0116
17	78.1000	0.4000	3571.9200	591.7602	0.0820	0.0136
18	78.1125	0.4125	3773.3850	637.6626	0.0866	0.0146
19	78.1250	0.4250	3974.8500	686.0836	0.0912	0.0158
20	78.1375	0.4375	4176.3150	737.0232	0.0959	0.0169
21	78.1500	0.4500	4377.7800	790.4814	0.1005	0.0181
22	78.1625	0.4625	4579.2450	846.4581	0.1051	0.0194
23	78.1750	0.4750	4780.7100	904.9533	0.1098	0.0208
24	78.1875	0.4875	4982.1750	965.9670	0.1144	0.0222
25	78.2000	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	78.2125	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	78.2250	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	78.2375	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	78.2500	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	78.2625	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	78.2750	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	78.2875	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	78.3000	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	78.3250	0.6250	8183.8350	1861.8586	0.1879	0.0427
35	78.3500	0.6500	8831.7900	2074.5025	0.2027	0.0476
36	78.3750	0.6750	9479.7450	2303.3489	0.2176	0.0529
37	78.4000	0.7000	10127.7000	2548.3974	0.2325	0.0585
38	78.4250	0.7250	10775.6550	2809.6474	0.2474	0.0645
39	78.4500	0.7500	11423.6100	3087.0988	0.2622	0.0709
40	78.4750	0.7750	12071.5650	3380.7513	0.2771	0.0776
41	78.5000	0.8000	12719.5200	3690.6046	0.2920	0.0847
42	82.2500	4.5500	12719.5200	51388.8046	0.2920	1.1797

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| Variable storage data for node | CI-184
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	75.7900	0.0000	4.3560	0.0000	0.0001	0.0000
2	75.8150	0.0250	150.8265	1.5068	0.0035	0.0000
3	75.8400	0.0500	297.2970	7.0058	0.0068	0.0002
4	75.8650	0.0750	443.7675	16.2082	0.0102	0.0004
5	75.8900	0.1000	590.2380	29.0898	0.0135	0.0007
6	75.9150	0.1250	736.7085	45.6428	0.0169	0.0010
7	75.9400	0.1500	883.1790	65.8638	0.0203	0.0015
8	75.9650	0.1750	1029.6495	89.7507	0.0236	0.0021
9	75.9900	0.2000	1176.1200	117.3026	0.0270	0.0027
10	76.0150	0.2250	1475.5950	150.3783	0.0339	0.0035
11	76.0400	0.2500	1775.0700	190.9540	0.0408	0.0044
12	76.0650	0.2750	2074.5450	239.0256	0.0476	0.0055
13	76.0900	0.3000	2374.0200	294.5906	0.0545	0.0068
14	76.1150	0.3250	2673.4950	357.6475	0.0614	0.0082
15	76.1400	0.3500	2972.9700	428.1952	0.0683	0.0098
16	76.1650	0.3750	3272.4450	506.2330	0.0751	0.0116
17	76.1900	0.4000	3571.9200	591.7602	0.0820	0.0136
18	76.2025	0.4125	3773.3850	637.6626	0.0866	0.0146
19	76.2150	0.4250	3974.8500	686.0836	0.0912	0.0158
20	76.2275	0.4375	4176.3150	737.0232	0.0959	0.0169
21	76.2400	0.4500	4377.7800	790.4814	0.1005	0.0181
22	76.2525	0.4625	4579.2450	846.4581	0.1051	0.0194
23	76.2650	0.4750	4780.7100	904.9533	0.1098	0.0208
24	76.2775	0.4875	4982.1750	965.9670	0.1144	0.0222
25	76.2900	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	76.3025	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	76.3150	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	76.3275	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	76.3400	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	76.3525	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	76.3650	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	76.3775	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	76.3900	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	76.4150	0.6250	8183.8350	1861.8586	0.1879	0.0427
35	76.4400	0.6500	8831.7900	2074.5025	0.2027	0.0476
36	76.4650	0.6750	9479.7450	2303.3489	0.2176	0.0529
37	76.4900	0.7000	10127.7000	2548.3974	0.2325	0.0585
38	76.5150	0.7250	10775.6550	2809.6474	0.2474	0.0645

39	76.5400	0.7500	11423.6100	3087.0988	0.2622	0.0709
40	76.5650	0.7750	12071.5650	3380.7513	0.2771	0.0776
41	76.5900	0.8000	12719.5200	3690.6046	0.2920	0.0847
42	80.3800	4.5900	12719.5200	51897.5854	0.2920	1.1914

Variable storage data for node	CI-183

Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	75.1200	0.0000	4.3560	0.0000	0.0001	0.0000
2	75.1450	0.0250	150.8265	1.5068	0.0035	0.0000
3	75.1700	0.0500	297.2970	7.0058	0.0068	0.0002
4	75.1950	0.0750	443.7675	16.2082	0.0102	0.0004
5	75.2200	0.1000	590.2380	29.0898	0.0135	0.0007
6	75.2450	0.1250	736.7085	45.6428	0.0169	0.0010
7	75.2700	0.1500	883.1790	65.8638	0.0203	0.0015
8	75.2950	0.1750	1029.6495	89.7507	0.0236	0.0021
9	75.3200	0.2000	1176.1200	117.3026	0.0270	0.0027
10	75.3450	0.2250	1475.5950	150.3783	0.0339	0.0035
11	75.3700	0.2500	1775.0700	190.9540	0.0408	0.0044
12	75.3950	0.2750	2074.5450	239.0256	0.0476	0.0055
13	75.4200	0.3000	2374.0200	294.5906	0.0545	0.0068
14	75.4450	0.3250	2673.4950	357.6475	0.0614	0.0082
15	75.4700	0.3500	2972.9700	428.1952	0.0683	0.0098
16	75.4950	0.3750	3272.4450	506.2330	0.0751	0.0116
17	75.5200	0.4000	3571.9200	591.7602	0.0820	0.0136
18	75.5325	0.4125	3773.3850	637.6626	0.0866	0.0146
19	75.5450	0.4250	3974.8500	686.0836	0.0912	0.0158
20	75.5575	0.4375	4176.3150	737.0232	0.0959	0.0169
21	75.5700	0.4500	4377.7800	790.4814	0.1005	0.0181
22	75.5825	0.4625	4579.2450	846.4581	0.1051	0.0194
23	75.5950	0.4750	4780.7100	904.9533	0.1098	0.0208
24	75.6075	0.4875	4982.1750	965.9670	0.1144	0.0222
25	75.6200	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	75.6325	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	75.6450	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	75.6575	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	75.6700	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	75.6825	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	75.6950	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	75.7075	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	75.7200	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	75.7450	0.6250	8183.8350	1861.8586	0.1879	0.0427
35	75.7700	0.6500	8831.7900	2074.5025	0.2027	0.0476
36	75.7950	0.6750	9479.7450	2303.3489	0.2176	0.0529
37	75.8200	0.7000	10127.7000	2548.3974	0.2325	0.0585
38	75.8450	0.7250	10775.6550	2809.6474	0.2474	0.0645
39	75.8700	0.7500	11423.6100	3087.0988	0.2622	0.0709
40	75.8950	0.7750	12071.5650	3380.7513	0.2771	0.0776
41	75.9200	0.8000	12719.5200	3690.6046	0.2920	0.0847
42	79.5000	4.3800	12719.5200	49226.4862	0.2920	1.1301

Variable storage data for node	CI-182

Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	75.7200	0.0000	4.3560	0.0000	0.0001	0.0000
2	75.7450	0.0250	150.8265	1.5068	0.0035	0.0000
3	75.7700	0.0500	297.2970	7.0058	0.0068	0.0002
4	75.7950	0.0750	443.7675	16.2082	0.0102	0.0004
5	75.8200	0.1000	590.2380	29.0898	0.0135	0.0007
6	75.8450	0.1250	736.7085	45.6428	0.0169	0.0010
7	75.8700	0.1500	883.1790	65.8638	0.0203	0.0015
8	75.8950	0.1750	1029.6495	89.7507	0.0236	0.0021
9	75.9200	0.2000	1176.1200	117.3026	0.0270	0.0027
10	75.9450	0.2250	1475.5950	150.3783	0.0339	0.0035
11	75.9700	0.2500	1775.0700	190.9540	0.0408	0.0044
12	75.9950	0.2750	2074.5450	239.0256	0.0476	0.0055
13	76.0200	0.3000	2374.0200	294.5906	0.0545	0.0068
14	76.0450	0.3250	2673.4950	357.6475	0.0614	0.0082
15	76.0700	0.3500	2972.9700	428.1952	0.0683	0.0098
16	76.0950	0.3750	3272.4450	506.2330	0.0751	0.0116
17	76.1200	0.4000	3571.9200	591.7602	0.0820	0.0136
18	76.1325	0.4125	3773.3850	637.6626	0.0866	0.0146
19	76.1450	0.4250	3974.8500	686.0836	0.0912	0.0158
20	76.1575	0.4375	4176.3150	737.0232	0.0959	0.0169
21	76.1700	0.4500	4377.7800	790.4814	0.1005	0.0181
22	76.1825	0.4625	4579.2450	846.4581	0.1051	0.0194
23	76.1950	0.4750	4780.7100	904.9533	0.1098	0.0208
24	76.2075	0.4875	4982.1750	965.9670	0.1144	0.0222
25	76.2200	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	76.2325	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	76.2450	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	76.2575	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	76.2700	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	76.2825	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	76.2950	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	76.3075	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	76.3200	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	76.3450	0.6250	8183.8350	1861.8586	0.1879	0.0427
35	76.3700	0.6500	8831.7900	2074.5025	0.2027	0.0476
36	76.3950	0.6750	9479.7450	2303.3489	0.2176	0.0529
37	76.4200	0.7000	10127.7000	2548.3974	0.2325	0.0585
38	76.4450	0.7250	10775.6550	2809.6474	0.2474	0.0645
39	76.4700	0.7500	11423.6100	3087.0988	0.2622	0.0709
40	76.4950	0.7750	12071.5650	3380.7513	0.2771	0.0776
41	76.5200	0.8000	12719.5200	3690.6046	0.2920	0.0847
42	80.7200	5.0000	12719.5200	57112.5886	0.2920	1.3111

Variable storage data for node	MHI-97

Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	75.0400	0.0000	87.1200	0.0000	0.0020	0.0000
2	75.3525	0.3125	2254.2300	290.0529	0.0517	0.0067
3	75.6650	0.6250	4421.3400	1314.2800	0.1015	0.0302
4	75.9775	0.9375	6588.4500	3023.3416	0.1512	0.0694
5	76.2900	1.2500	8755.5600	5412.8324	0.2010	0.1243
6	76.6025	1.5625	10922.6700	8481.3218	0.2508	0.1947
7	76.9150	1.8750	13089.7800	12228.1635	0.3005	0.2807
8	77.2275	2.1875	15256.8900	16653.0098	0.3502	0.3823
9	77.5400	2.5000	17424.0000	21755.6525	0.4000	0.4994
10	79.7400	4.7000	17424.0000	60088.4525	0.4000	1.3794

Variable storage data for node	CI-187

Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	75.7700	0.0000	4.3560	0.0000	0.0001	0.0000
2	76.2687	0.4988	4.3560	2.1726	0.0001	0.0000

3	76.7675	0.9975	4.3560	4.3451	0.0001	0.0001
4	77.2662	1.4963	4.3560	6.5177	0.0001	0.0001
5	77.7650	1.9950	4.3560	8.6902	0.0001	0.0002
6	78.2638	2.4938	4.3560	10.8628	0.0001	0.0002
7	78.7625	2.9925	4.3560	13.0353	0.0001	0.0003
8	79.2612	3.4912	4.3560	15.2079	0.0001	0.0003
9	79.7600	3.9900	4.3560	17.3804	0.0001	0.0004
10	79.8225	4.0525	450.3015	27.7752	0.0103	0.0006
11	79.8850	4.1150	896.2470	69.0633	0.0206	0.0016
12	79.9475	4.1775	1342.1925	138.5471	0.0308	0.0032
13	80.0100	4.2400	1788.1380	236.0373	0.0411	0.0054
14	80.0725	4.3025	2234.0835	361.4735	0.0513	0.0083
15	80.1350	4.3650	2680.0290	514.8283	0.0615	0.0118
16	80.1975	4.4275	3125.9745	696.0872	0.0718	0.0160
17	80.2600	4.4900	3571.9200	905.2416	0.0820	0.0208
18	80.3225	4.5525	5374.2150	1182.8976	0.1234	0.0272
19	80.3850	4.6150	7176.5100	1573.7528	0.1648	0.0361
20	80.4475	4.6775	8978.8050	2077.5559	0.2061	0.0477
21	80.5100	4.7400	10781.1000	2694.1950	0.2475	0.0619
22	80.5725	4.8025	12583.3950	3423.6103	0.2889	0.0786
23	80.6350	4.8650	14385.6900	4265.7661	0.3302	0.0979
24	80.6975	4.9275	16187.9850	5220.6397	0.3716	0.1198
25	80.7600	4.9900	17990.2800	6288.2151	0.4130	0.1444
26	80.8225	5.0525	18251.6400	7420.7653	0.4190	0.1704
27	80.8850	5.1150	18513.0000	8569.6506	0.4250	0.1967
28	80.9475	5.1775	18774.3600	9734.8711	0.4310	0.2235
29	81.0100	5.2400	19035.7200	10916.4266	0.4370	0.2506
30	81.0725	5.3025	19297.0800	12114.3174	0.4430	0.2781
31	81.1350	5.3650	19558.4400	13328.5432	0.4490	0.3060
32	81.1975	5.4275	19819.8000	14559.1042	0.4550	0.3342
33	81.2600	5.4900	20081.1600	15806.0003	0.4610	0.3629

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| Variable storage data for node | CI-186
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	74.1200	0.0000	4.3560	0.0000	0.0001	0.0000
2	74.1450	0.0250	150.8265	1.5068	0.0035	0.0000
3	74.1700	0.0500	297.2970	7.0058	0.0068	0.0002
4	74.1950	0.0750	443.7675	16.2082	0.0102	0.0004
5	74.2200	0.1000	590.2380	29.0898	0.0135	0.0007
6	74.2450	0.1250	736.7085	45.6428	0.0169	0.0010
7	74.2700	0.1500	883.1790	65.8638	0.0203	0.0015
8	74.2950	0.1750	1029.6495	89.7507	0.0236	0.0021
9	74.3200	0.2000	1176.1200	117.3026	0.0270	0.0027
10	74.3450	0.2250	1475.5950	150.3783	0.0339	0.0035
11	74.3700	0.2500	1775.0700	190.9540	0.0408	0.0044
12	74.3950	0.2750	2074.5450	239.0256	0.0476	0.0055
13	74.4200	0.3000	2374.0200	294.5906	0.0545	0.0068
14	74.4450	0.3250	2673.4950	357.6475	0.0614	0.0082
15	74.4700	0.3500	2972.9700	428.1952	0.0683	0.0098
16	74.4950	0.3750	3272.4450	506.2330	0.0751	0.0116
17	74.5200	0.4000	3571.9200	591.7602	0.0820	0.0136
18	74.5325	0.4125	3773.3850	637.6626	0.0866	0.0146
19	74.5450	0.4250	3974.8500	686.0836	0.0912	0.0158
20	74.5575	0.4375	4176.3150	737.0232	0.0959	0.0169
21	74.5700	0.4500	4377.7800	790.4814	0.1005	0.0181
22	74.5825	0.4625	4579.2450	846.4581	0.1051	0.0194
23	74.5950	0.4750	4780.7100	904.9533	0.1098	0.0208
24	74.6075	0.4875	4982.1750	965.9670	0.1144	0.0222
25	74.6200	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	74.6325	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	74.6450	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	74.6575	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	74.6700	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	74.6825	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	74.6950	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	74.7075	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	74.7200	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	74.7450	0.6250	8183.8350	1861.8586	0.1879	0.0427
35	74.7700	0.6500	8831.7900	2074.5025	0.2027	0.0476
36	74.7950	0.6750	9479.7450	2303.3489	0.2176	0.0529
37	74.8200	0.7000	10127.7000	2548.3974	0.2325	0.0585
38	74.8450	0.7250	10775.6550	2809.6474	0.2474	0.0645
39	74.8700	0.7500	11423.6100	3087.0988	0.2622	0.0709
40	74.8950	0.7750	12071.5650	3380.7513	0.2771	0.0776
41	74.9200	0.8000	12719.5200	3690.6046	0.2920	0.0847
42	80.1100	5.9900	12719.5200	69704.9134	0.2920	1.6002

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| Variable storage data for node | CI-185
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	73.9800	0.0000	4.3560	0.0000	0.0001	0.0000
2	74.0050	0.0250	150.8265	1.5068	0.0035	0.0000
3	74.0300	0.0500	297.2970	7.0058	0.0068	0.0002
4	74.0550	0.0750	443.7675	16.2082	0.0102	0.0004
5	74.0800	0.1000	590.2380	29.0898	0.0135	0.0007
6	74.1050	0.1250	736.7085	45.6428	0.0169	0.0010
7	74.1300	0.1500	883.1790	65.8638	0.0203	0.0015
8	74.1550	0.1750	1029.6495	89.7507	0.0236	0.0021
9	74.1800	0.2000	1176.1200	117.3026	0.0270	0.0027
10	74.2050	0.2250	1475.5950	150.3783	0.0339	0.0035
11	74.2300	0.2500	1775.0700	190.9540	0.0408	0.0044
12	74.2550	0.2750	2074.5450	239.0256	0.0476	0.0055
13	74.2800	0.3000	2374.0200	294.5906	0.0545	0.0068
14	74.3050	0.3250	2673.4950	357.6475	0.0614	0.0082
15	74.3300	0.3500	2972.9700	428.1952	0.0683	0.0098
16	74.3550	0.3750	3272.4450	506.2330	0.0751	0.0116
17	74.3800	0.4000	3571.9200	591.7602	0.0820	0.0136
18	74.3925	0.4125	3773.3850	637.6626	0.0866	0.0146
19	74.4050	0.4250	3974.8500	686.0836	0.0912	0.0158
20	74.4175	0.4375	4176.3150	737.0232	0.0959	0.0169
21	74.4300	0.4500	4377.7800	790.4814	0.1005	0.0181
22	74.4425	0.4625	4579.2450	846.4581	0.1051	0.0194
23	74.4550	0.4750	4780.7100	904.9533	0.1098	0.0208
24	74.4675	0.4875	4982.1750	965.9670	0.1144	0.0222
25	74.4800	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	74.4925	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	74.5050	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	74.5175	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	74.5300	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	74.5425	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	74.5550	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	74.5675	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	74.5800	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	74.6050	0.6250	8183.8350	1861.8586	0.1879	0.0427
35	74.6300	0.6500	8831.7900	2074.5025	0.2027	0.0476
36	74.6550	0.6750	9479.7450	2303.3489	0.2176	0.0529
37	74.6800	0.7000	10127.7000	2548.3974	0.2325	0.0585
38	74.7050	0.7250	10775.6550	2809.6474	0.2474	0.0645
39	74.7300	0.7500	11423.6100	3087.0988	0.2622	0.0709
40	74.7550	0.7750	12071.5650	3380.7513	0.2771	0.0776
41	74.7800	0.8000	12719.5200	3690.6046	0.2920	0.0847

42	80.1100	6.1300	12719.5200	71485.6462	0.2920	1.6411

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| Variable storage data for node | CI-179
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	74.6800	0.0000	4.3560	0.0000	0.0001	0.0000
2	74.7050	0.0250	150.8265	1.5068	0.0035	0.0000
3	74.7300	0.0500	297.2970	7.0058	0.0068	0.0002
4	74.7550	0.0750	443.7675	16.2082	0.0102	0.0004
5	74.7800	0.1000	590.2380	29.0898	0.0135	0.0007
6	74.8050	0.1250	736.7085	45.6428	0.0169	0.0010
7	74.8300	0.1500	883.1790	65.8638	0.0203	0.0015
8	74.8550	0.1750	1029.6495	89.7507	0.0236	0.0021
9	74.8800	0.2000	1176.1200	117.3026	0.0270	0.0027
10	74.9050	0.2250	1475.5950	150.3783	0.0339	0.0035
11	74.9300	0.2500	1775.0700	190.9540	0.0408	0.0044
12	74.9550	0.2750	2074.5450	239.0256	0.0476	0.0055
13	74.9800	0.3000	2374.0200	294.5906	0.0545	0.0068
14	75.0050	0.3250	2673.4950	357.6475	0.0614	0.0082
15	75.0300	0.3500	2972.9700	428.1952	0.0683	0.0098
16	75.0550	0.3750	3272.4450	506.2330	0.0751	0.0116
17	75.0800	0.4000	3571.9200	591.7602	0.0820	0.0136
18	75.0925	0.4125	3773.3850	637.6626	0.0866	0.0146
19	75.1050	0.4250	3974.8500	686.0836	0.0912	0.0158
20	75.1175	0.4375	4176.3150	737.0232	0.0959	0.0169
21	75.1300	0.4500	4377.7800	790.4814	0.1005	0.0181
22	75.1425	0.4625	4579.2450	846.4581	0.1051	0.0194
23	75.1550	0.4750	4780.7100	904.9533	0.1098	0.0208
24	75.1675	0.4875	4982.1750	965.9670	0.1144	0.0222
25	75.1800	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	75.1925	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	75.2050	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	75.2175	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	75.2300	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	75.2425	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	75.2550	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	75.2675	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	75.2800	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	75.3050	0.6250	8183.8350	1861.8586	0.1879	0.0427
35	75.3300	0.6500	8831.7900	2074.5025	0.2027	0.0476
36	75.3550	0.6750	9479.7450	2303.3489	0.2176	0.0529
37	75.3800	0.7000	10127.7000	2548.3974	0.2325	0.0585
38	75.4050	0.7250	10775.6550	2809.6474	0.2474	0.0645
39	75.4300	0.7500	11423.6100	3087.0988	0.2622	0.0709
40	75.4550	0.7750	12071.5650	3380.7513	0.2771	0.0776
41	75.4800	0.8000	12719.5200	3690.6046	0.2920	0.0847
42	79.5700	4.8900	12719.5200	55713.4414	0.2920	1.2790

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| Variable storage data for node | CI-178
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	75.2600	0.0000	4.3560	0.0000	0.0001	0.0000
2	75.2850	0.0250	150.8265	1.5068	0.0035	0.0000
3	75.3100	0.0500	297.2970	7.0058	0.0068	0.0002
4	75.3350	0.0750	443.7675	16.2082	0.0102	0.0004
5	75.3600	0.1000	590.2380	29.0898	0.0135	0.0007
6	75.3850	0.1250	736.7085	45.6428	0.0169	0.0010
7	75.4100	0.1500	883.1790	65.8638	0.0203	0.0015
8	75.4350	0.1750	1029.6495	89.7507	0.0236	0.0021
9	75.4600	0.2000	1176.1200	117.3026	0.0270	0.0027
10	75.4850	0.2250	1475.5950	150.3783	0.0339	0.0035
11	75.5100	0.2500	1775.0700	190.9540	0.0408	0.0044
12	75.5350	0.2750	2074.5450	239.0256	0.0476	0.0055
13	75.5600	0.3000	2374.0200	294.5906	0.0545	0.0068
14	75.5850	0.3250	2673.4950	357.6475	0.0614	0.0082
15	75.6100	0.3500	2972.9700	428.1952	0.0683	0.0098
16	75.6350	0.3750	3272.4450	506.2330	0.0751	0.0116
17	75.6600	0.4000	3571.9200	591.7602	0.0820	0.0136
18	75.6725	0.4125	3773.3850	637.6626	0.0866	0.0146
19	75.6850	0.4250	3974.8500	686.0836	0.0912	0.0158
20	75.6975	0.4375	4176.3150	737.0232	0.0959	0.0169
21	75.7100	0.4500	4377.7800	790.4814	0.1005	0.0181
22	75.7225	0.4625	4579.2450	846.4581	0.1051	0.0194
23	75.7350	0.4750	4780.7100	904.9533	0.1098	0.0208
24	75.7475	0.4875	4982.1750	965.9670	0.1144	0.0222
25	75.7600	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	75.7725	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	75.7850	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	75.7975	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	75.8100	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	75.8225	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	75.8350	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	75.8475	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	75.8600	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	75.8850	0.6250	8183.8350	1861.8586	0.1879	0.0427
35	75.9100	0.6500	8831.7900	2074.5025	0.2027	0.0476
36	75.9350	0.6750	9479.7450	2303.3489	0.2176	0.0529
37	75.9600	0.7000	10127.7000	2548.3974	0.2325	0.0585
38	75.9850	0.7250	10775.6550	2809.6474	0.2474	0.0645
39	76.0100	0.7500	11423.6100	3087.0988	0.2622	0.0709
40	76.0350	0.7750	12071.5650	3380.7513	0.2771	0.0776
41	76.0600	0.8000	12719.5200	3690.6046	0.2920	0.0847
42	80.0000	4.7400	12719.5200	53805.5134	0.2920	1.2352

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| Variable storage data for node | MHI-96
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	72.6300	0.0000	87.1200	0.0000	0.0020	0.0000
2	72.9425	0.3125	2254.2300	290.0529	0.0517	0.0067
3	73.2550	0.6250	4421.3400	1314.2800	0.1015	0.0302
4	73.5675	0.9375	6588.4500	3023.3416	0.1512	0.0694
5	73.8800	1.2500	8755.5600	5412.8324	0.2010	0.1243
6	74.1925	1.5625	10922.6700	8481.3218	0.2508	0.1947
7	74.5050	1.8750	13089.7800	12228.1635	0.3005	0.2807
8	74.8175	2.1875	15256.8900	16653.0098	0.3502	0.3823
9	75.1300	2.5000	17424.0000	21755.6525	0.4000	0.4994
10	80.4400	7.8100	17424.0000	114277.0925	0.4000	2.6234

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| Variable storage data for node | MHI-95
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	74.4000	0.0000	87.1200	0.0000	0.0020	0.0000
2	74.7125	0.3125	2254.2300	290.0529	0.0517	0.0067
3	75.0250	0.6250	4421.3400	1314.2800	0.1015	0.0302
4	75.3375	0.9375	6588.4500	3023.3416	0.1512	0.0694
5	75.6500	1.2500	8755.5600	5412.8324	0.2010	0.1243

6	75.9625	1.5625	10922.6700	8481.3218	0.2508	0.1947
7	76.2750	1.8750	13089.7800	12228.1635	0.3005	0.2807
8	76.5875	2.1875	15256.8900	16653.0098	0.3502	0.3823
9	76.9000	2.5000	17424.0000	21755.6525	0.4000	0.4994
10	79.6600	5.2600	17424.0000	69845.8925	0.4000	1.6034

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| Variable storage data for node | CI-180
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	75.5500	0.0000	4.3560	0.0000	0.0001	0.0000
2	75.5750	0.0250	150.8265	1.5068	0.0035	0.0000
3	75.6000	0.0500	297.2970	7.0058	0.0068	0.0002
4	75.6250	0.0750	443.7675	16.2082	0.0102	0.0004
5	75.6500	0.1000	590.2380	29.0898	0.0135	0.0007
6	75.6750	0.1250	736.7085	45.6428	0.0169	0.0010
7	75.7000	0.1500	883.1790	65.8638	0.0203	0.0015
8	75.7250	0.1750	1029.6495	89.7507	0.0236	0.0021
9	75.7500	0.2000	1176.1200	117.3026	0.0270	0.0027
10	75.7750	0.2250	1475.5950	150.3783	0.0339	0.0035
11	75.8000	0.2500	1775.0700	190.9540	0.0408	0.0044
12	75.8250	0.2750	2074.5450	239.0256	0.0476	0.0055
13	75.8500	0.3000	2374.0200	294.5906	0.0545	0.0068
14	75.8750	0.3250	2673.4950	357.6475	0.0614	0.0082
15	75.9000	0.3500	2972.9700	428.1952	0.0683	0.0098
16	75.9250	0.3750	3272.4450	506.2330	0.0751	0.0116
17	75.9500	0.4000	3571.9200	591.7602	0.0820	0.0136
18	75.9625	0.4125	3773.3850	637.6626	0.0866	0.0146
19	75.9750	0.4250	3974.8500	686.0836	0.0912	0.0158
20	75.9875	0.4375	4176.3150	737.0232	0.0959	0.0169
21	76.0000	0.4500	4377.7800	790.4814	0.1005	0.0181
22	76.0125	0.4625	4579.2450	846.4581	0.1051	0.0194
23	76.0250	0.4750	4780.7100	904.9533	0.1098	0.0208
24	76.0375	0.4875	4982.1750	965.9670	0.1144	0.0222
25	76.0500	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	76.0625	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	76.0750	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	76.0875	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	76.1000	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	76.1125	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	76.1250	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	76.1375	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	76.1500	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	76.1750	0.6250	8183.8350	1861.8586	0.1879	0.0427
35	76.2000	0.6500	8831.7900	2074.5025	0.2027	0.0476
36	76.2250	0.6750	9479.7450	2303.3489	0.2176	0.0529
37	76.2500	0.7000	10127.7000	2548.3974	0.2325	0.0585
38	76.2750	0.7250	10775.6550	2809.6474	0.2474	0.0645
39	76.3000	0.7500	11423.6100	3087.0988	0.2622	0.0709
40	76.3250	0.7750	12071.5650	3380.7513	0.2771	0.0776
41	76.3500	0.8000	12719.5200	3690.6046	0.2920	0.0847
42	79.6000	4.0500	12719.5200	45029.0446	0.2920	1.0337

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| Variable storage data for node | CI-181
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	74.9500	0.0000	4.3560	0.0000	0.0001	0.0000
2	74.9750	0.0250	150.8265	1.5068	0.0035	0.0000
3	75.0000	0.0500	297.2970	7.0058	0.0068	0.0002
4	75.0250	0.0750	443.7675	16.2082	0.0102	0.0004
5	75.0500	0.1000	590.2380	29.0898	0.0135	0.0007
6	75.0750	0.1250	736.7085	45.6428	0.0169	0.0010
7	75.1000	0.1500	883.1790	65.8638	0.0203	0.0015
8	75.1250	0.1750	1029.6495	89.7507	0.0236	0.0021
9	75.1500	0.2000	1176.1200	117.3026	0.0270	0.0027
10	75.1750	0.2250	1475.5950	150.3783	0.0339	0.0035
11	75.2000	0.2500	1775.0700	190.9540	0.0408	0.0044
12	75.2250	0.2750	2074.5450	239.0256	0.0476	0.0055
13	75.2500	0.3000	2374.0200	294.5906	0.0545	0.0068
14	75.2750	0.3250	2673.4950	357.6475	0.0614	0.0082
15	75.3000	0.3500	2972.9700	428.1952	0.0683	0.0098
16	75.3250	0.3750	3272.4450	506.2330	0.0751	0.0116
17	75.3500	0.4000	3571.9200	591.7602	0.0820	0.0136
18	75.3625	0.4125	3773.3850	637.6626	0.0866	0.0146
19	75.3750	0.4250	3974.8500	686.0836	0.0912	0.0158
20	75.3875	0.4375	4176.3150	737.0232	0.0959	0.0169
21	75.4000	0.4500	4377.7800	790.4814	0.1005	0.0181
22	75.4125	0.4625	4579.2450	846.4581	0.1051	0.0194
23	75.4250	0.4750	4780.7100	904.9533	0.1098	0.0208
24	75.4375	0.4875	4982.1750	965.9670	0.1144	0.0222
25	75.4500	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	75.4625	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	75.4750	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	75.4875	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	75.5000	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	75.5125	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	75.5250	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	75.5375	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	75.5500	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	75.5750	0.6250	8183.8350	1861.8586	0.1879	0.0427
35	75.6000	0.6500	8831.7900	2074.5025	0.2027	0.0476
36	75.6250	0.6750	9479.7450	2303.3489	0.2176	0.0529
37	75.6500	0.7000	10127.7000	2548.3974	0.2325	0.0585
38	75.6750	0.7250	10775.6550	2809.6474	0.2474	0.0645
39	75.7000	0.7500	11423.6100	3087.0988	0.2622	0.0709
40	75.7250	0.7750	12071.5650	3380.7513	0.2771	0.0776
41	75.7500	0.8000	12719.5200	3690.6046	0.2920	0.0847
42	80.0000	5.0500	12719.5200	57748.5646	0.2920	1.3257

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| Variable storage data for node | CI-176
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	72.6700	0.0000	4.3560	0.0000	0.0001	0.0000
2	72.6950	0.0250	150.8265	1.5068	0.0035	0.0000
3	72.7200	0.0500	297.2970	7.0058	0.0068	0.0002
4	72.7450	0.0750	443.7675	16.2082	0.0102	0.0004
5	72.7700	0.1000	590.2380	29.0898	0.0135	0.0007
6	72.7950	0.1250	736.7085	45.6428	0.0169	0.0010
7	72.8200	0.1500	883.1790	65.8638	0.0203	0.0015
8	72.8450	0.1750	1029.6495	89.7507	0.0236	0.0021
9	72.8700	0.2000	1176.1200	117.3026	0.0270	0.0027
10	72.8950	0.2250	1475.5950	150.3783	0.0339	0.0035
11	72.9200	0.2500	1775.0700	190.9540	0.0408	0.0044
12	72.9450	0.2750	2074.5450	239.0256	0.0476	0.0055
13	72.9700	0.3000	2374.0200	294.5906	0.0545	0.0068
14	72.9950	0.3250	2673.4950	357.6475	0.0614	0.0082
15	73.0200	0.3500	2972.9700	428.1952	0.0683	0.0098
16	73.0450	0.3750	3272.4450	506.2330	0.0751	0.0116
17	73.0700	0.4000	3571.9200	591.7602	0.0820	0.0136
18	73.0825	0.4125	3773.3850	637.6626	0.0866	0.0146

19	73.0950	0.4250	3974.8500	686.0836	0.0912	0.0158
20	73.1075	0.4375	4176.3150	737.0232	0.0959	0.0169
21	73.1200	0.4500	4377.7800	790.4814	0.1005	0.0181
22	73.1325	0.4625	4579.2450	846.4581	0.1051	0.0194
23	73.1450	0.4750	4780.7100	904.9533	0.1098	0.0208
24	73.1575	0.4875	4982.1750	965.9670	0.1144	0.0222
25	73.1700	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	73.1825	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	73.1950	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	73.2075	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	73.2200	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	73.2325	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	73.2450	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	73.2575	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	73.2700	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	73.2950	0.6250	8183.8350	1861.8586	0.1879	0.0427
35	73.3200	0.6500	8831.7900	2074.5025	0.2027	0.0476
36	73.3450	0.6750	9479.7450	2303.3489	0.2176	0.0529
37	73.3700	0.7000	10127.7000	2548.3974	0.2325	0.0585
38	73.3950	0.7250	10775.6550	2809.6474	0.2474	0.0645
39	73.4200	0.7500	11423.6100	3087.0988	0.2622	0.0709
40	73.4450	0.7750	12071.5650	3380.7513	0.2771	0.0776
41	73.4700	0.8000	12719.5200	3690.6046	0.2920	0.0847
42	80.3400	7.6700	12719.5200	91073.7070	0.2920	2.0908

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| Variable storage data for node | CI-175
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	71.6300	0.0000	4.3560	0.0000	0.0001	0.0000
2	71.6550	0.0250	150.8265	1.5068	0.0035	0.0000
3	71.6800	0.0500	297.2970	7.0058	0.0068	0.0002
4	71.7050	0.0750	443.7675	16.2082	0.0102	0.0004
5	71.7300	0.1000	590.2380	29.0898	0.0135	0.0007
6	71.7550	0.1250	736.7085	45.6428	0.0169	0.0010
7	71.7800	0.1500	883.1790	65.8638	0.0203	0.0015
8	71.8050	0.1750	1029.6495	89.7507	0.0236	0.0021
9	71.8300	0.2000	1176.1200	117.3026	0.0270	0.0027
10	71.8550	0.2250	1475.5950	150.3783	0.0339	0.0035
11	71.8800	0.2500	1775.0700	190.9540	0.0408	0.0044
12	71.9050	0.2750	2074.5450	239.0256	0.0476	0.0055
13	71.9300	0.3000	2374.0200	294.5906	0.0545	0.0068
14	71.9550	0.3250	2673.4950	357.6475	0.0614	0.0082
15	71.9800	0.3500	2972.9700	428.1952	0.0683	0.0098
16	72.0050	0.3750	3272.4450	506.2330	0.0751	0.0116
17	72.0300	0.4000	3571.9200	591.7602	0.0820	0.0136
18	72.0425	0.4125	3773.3850	637.6626	0.0866	0.0146
19	72.0550	0.4250	3974.8500	686.0836	0.0912	0.0158
20	72.0675	0.4375	4176.3150	737.0232	0.0959	0.0169
21	72.0800	0.4500	4377.7800	790.4814	0.1005	0.0181
22	72.0925	0.4625	4579.2450	846.4581	0.1051	0.0194
23	72.1050	0.4750	4780.7100	904.9533	0.1098	0.0208
24	72.1175	0.4875	4982.1750	965.9670	0.1144	0.0222
25	72.1300	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	72.1425	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	72.1550	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	72.1675	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	72.1800	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	72.1925	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	72.2050	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	72.2175	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	72.2300	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	72.2550	0.6250	8183.8350	1861.8586	0.1879	0.0427
35	72.2800	0.6500	8831.7900	2074.5025	0.2027	0.0476
36	72.3050	0.6750	9479.7450	2303.3489	0.2176	0.0529
37	72.3300	0.7000	10127.7000	2548.3974	0.2325	0.0585
38	72.3550	0.7250	10775.6550	2809.6474	0.2474	0.0645
39	72.3800	0.7500	11423.6100	3087.0988	0.2622	0.0709
40	72.4050	0.7750	12071.5650	3380.7513	0.2771	0.0776
41	72.4300	0.8000	12719.5200	3690.6046	0.2920	0.0847
42	81.0000	9.3700	12719.5200	112696.8910	0.2920	2.5872

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| Variable storage data for node | CI-175S
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	72.8000	0.0000	4.3560	0.0000	0.0001	0.0000
2	72.8250	0.0250	150.8265	1.5068	0.0035	0.0000
3	72.8500	0.0500	297.2970	7.0058	0.0068	0.0002
4	72.8750	0.0750	443.7675	16.2082	0.0102	0.0004
5	72.9000	0.1000	590.2380	29.0898	0.0135	0.0007
6	72.9250	0.1250	736.7085	45.6428	0.0169	0.0010
7	72.9500	0.1500	883.1790	65.8638	0.0203	0.0015
8	72.9750	0.1750	1029.6495	89.7507	0.0236	0.0021
9	73.0000	0.2000	1176.1200	117.3026	0.0270	0.0027
10	73.0250	0.2250	1475.5950	150.3783	0.0339	0.0035
11	73.0500	0.2500	1775.0700	190.9540	0.0408	0.0044
12	73.0750	0.2750	2074.5450	239.0256	0.0476	0.0055
13	73.1000	0.3000	2374.0200	294.5906	0.0545	0.0068
14	73.1250	0.3250	2673.4950	357.6475	0.0614	0.0082
15	73.1500	0.3500	2972.9700	428.1952	0.0683	0.0098
16	73.1750	0.3750	3272.4450	506.2330	0.0751	0.0116
17	73.2000	0.4000	3571.9200	591.7602	0.0820	0.0136
18	73.2125	0.4125	3773.3850	637.6626	0.0866	0.0146
19	73.2250	0.4250	3974.8500	686.0836	0.0912	0.0158
20	73.2375	0.4375	4176.3150	737.0232	0.0959	0.0169
21	73.2500	0.4500	4377.7800	790.4814	0.1005	0.0181
22	73.2625	0.4625	4579.2450	846.4581	0.1051	0.0194
23	73.2750	0.4750	4780.7100	904.9533	0.1098	0.0208
24	73.2875	0.4875	4982.1750	965.9670	0.1144	0.0222
25	73.3000	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	73.3125	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	73.3250	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	73.3375	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	73.3500	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	73.3625	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	73.3750	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	73.3875	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	73.4000	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	73.4250	0.6250	8183.8350	1861.8586	0.1879	0.0427
35	73.4500	0.6500	8831.7900	2074.5025	0.2027	0.0476
36	73.4750	0.6750	9479.7450	2303.3489	0.2176	0.0529
37	73.5000	0.7000	10127.7000	2548.3974	0.2325	0.0585
38	73.5250	0.7250	10775.6550	2809.6474	0.2474	0.0645
39	73.5500	0.7500	11423.6100	3087.0988	0.2622	0.0709
40	73.5750	0.7750	12071.5650	3380.7513	0.2771	0.0776
41	73.6000	0.8000	12719.5200	3690.6046	0.2920	0.0847
42	81.8400	9.0400	12719.5200	108499.4494	0.2920	2.4908

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| Variable storage data for node | MHI-93
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft

Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	72.2800	0.0000	87.1200	0.0000	0.0020	0.0000
2	72.5925	0.3125	2254.2300	290.0529	0.0517	0.0067
3	72.9050	0.6250	4421.3400	1314.2800	0.1015	0.0302
4	73.2175	0.9375	6588.4500	3023.3416	0.1512	0.0694
5	73.5300	1.2500	8755.5600	5412.8324	0.2010	0.1243
6	73.8425	1.5625	10922.6700	8481.3218	0.2508	0.1947
7	74.1550	1.8750	13089.7800	12228.1635	0.3005	0.2807
8	74.4675	2.1875	15256.8900	16653.0098	0.3502	0.3823
9	74.7800	2.5000	17424.0000	21755.6525	0.4000	0.4994
10	80.4000	8.1200	17424.0000	119678.5325	0.4000	2.7474

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| Variable storage data for node | MHI-94
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	71.8600	0.0000	87.1200	0.0000	0.0020	0.0000
2	72.1725	0.3125	2254.2300	290.0529	0.0517	0.0067
3	72.4850	0.6250	4421.3400	1314.2800	0.1015	0.0302
4	72.7975	0.9375	6588.4500	3023.3416	0.1512	0.0694
5	73.1100	1.2500	8755.5600	5412.8324	0.2010	0.1243
6	73.4225	1.5625	10922.6700	8481.3218	0.2508	0.1947
7	73.7350	1.8750	13089.7800	12228.1635	0.3005	0.2807
8	74.0475	2.1875	15256.8900	16653.0098	0.3502	0.3823
9	74.3600	2.5000	17424.0000	21755.6525	0.4000	0.4994
10	80.0900	8.2300	17424.0000	121595.1725	0.4000	2.7914

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| Variable storage data for node | CI-177
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	75.1900	0.0000	4.3560	0.0000	0.0001	0.0000
2	75.2150	0.0250	150.8265	1.5068	0.0035	0.0000
3	75.2400	0.0500	297.2970	7.0058	0.0068	0.0002
4	75.2650	0.0750	443.7675	16.2082	0.0102	0.0004
5	75.2900	0.1000	590.2380	29.0898	0.0135	0.0007
6	75.3150	0.1250	736.7085	45.6428	0.0169	0.0010
7	75.3400	0.1500	883.1790	65.8638	0.0203	0.0015
8	75.3650	0.1750	1029.6495	89.7507	0.0236	0.0021
9	75.3900	0.2000	1176.1200	117.3026	0.0270	0.0027
10	75.4150	0.2250	1475.5950	150.3783	0.0339	0.0035
11	75.4400	0.2500	1775.0700	190.9540	0.0408	0.0044
12	75.4650	0.2750	2074.5450	239.0256	0.0476	0.0055
13	75.4900	0.3000	2374.0200	294.5906	0.0545	0.0068
14	75.5150	0.3250	2673.4950	357.6475	0.0614	0.0082
15	75.5400	0.3500	2972.9700	428.1952	0.0683	0.0098
16	75.5650	0.3750	3272.4450	506.2330	0.0751	0.0116
17	75.5900	0.4000	3571.9200	591.7602	0.0820	0.0136
18	75.6025	0.4125	3773.3850	637.6626	0.0866	0.0146
19	75.6150	0.4250	3974.8500	686.0836	0.0912	0.0158
20	75.6275	0.4375	4176.3150	737.0232	0.0959	0.0169
21	75.6400	0.4500	4377.7800	790.4814	0.1005	0.0181
22	75.6525	0.4625	4579.2450	846.4581	0.1051	0.0194
23	75.6650	0.4750	4780.7100	904.9533	0.1098	0.0208
24	75.6775	0.4875	4982.1750	965.9670	0.1144	0.0222
25	75.6900	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	75.7025	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	75.7150	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	75.7275	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	75.7400	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	75.7525	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	75.7650	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	75.7775	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	75.7900	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	75.8150	0.6250	8183.8350	1861.8586	0.1879	0.0427
35	75.8400	0.6500	8831.7900	2074.5025	0.2027	0.0476
36	75.8650	0.6750	9479.7450	2303.3489	0.2176	0.0529
37	75.8900	0.7000	10127.7000	2548.3974	0.2325	0.0585
38	75.9150	0.7250	10775.6550	2809.6474	0.2474	0.0645
39	75.9400	0.7500	11423.6100	3087.0988	0.2622	0.0709
40	75.9650	0.7750	12071.5650	3380.7513	0.2771	0.0776
41	75.9900	0.8000	12719.5200	3690.6046	0.2920	0.0847
42	79.5600	4.3700	12719.5200	49099.2910	0.2920	1.1272

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| Variable storage data for node | MHI-92
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	72.5800	0.0000	87.1200	0.0000	0.0020	0.0000
2	72.8925	0.3125	2254.2300	290.0529	0.0517	0.0067
3	73.2050	0.6250	4421.3400	1314.2800	0.1015	0.0302
4	73.5175	0.9375	6588.4500	3023.3416	0.1512	0.0694
5	73.8300	1.2500	8755.5600	5412.8324	0.2010	0.1243
6	74.1425	1.5625	10922.6700	8481.3218	0.2508	0.1947
7	74.4550	1.8750	13089.7800	12228.1635	0.3005	0.2807
8	74.7675	2.1875	15256.8900	16653.0098	0.3502	0.3823
9	75.0800	2.5000	17424.0000	21755.6525	0.4000	0.4994
10	79.3500	6.7700	17424.0000	96156.1325	0.4000	2.2074

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| Variable storage data for node | CI-173
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	75.3000	0.0000	4.3560	0.0000	0.0001	0.0000
2	75.3250	0.0250	150.8265	1.5068	0.0035	0.0000
3	75.3500	0.0500	297.2970	7.0058	0.0068	0.0002
4	75.3750	0.0750	443.7675	16.2082	0.0102	0.0004
5	75.4000	0.1000	590.2380	29.0898	0.0135	0.0007
6	75.4250	0.1250	736.7085	45.6428	0.0169	0.0010
7	75.4500	0.1500	883.1790	65.8638	0.0203	0.0015
8	75.4750	0.1750	1029.6495	89.7507	0.0236	0.0021
9	75.5000	0.2000	1176.1200	117.3026	0.0270	0.0027
10	75.5250	0.2250	1475.5950	150.3783	0.0339	0.0035
11	75.5500	0.2500	1775.0700	190.9540	0.0408	0.0044
12	75.5750	0.2750	2074.5450	239.0256	0.0476	0.0055
13	75.6000	0.3000	2374.0200	294.5906	0.0545	0.0068
14	75.6250	0.3250	2673.4950	357.6475	0.0614	0.0082
15	75.6500	0.3500	2972.9700	428.1952	0.0683	0.0098
16	75.6750	0.3750	3272.4450	506.2330	0.0751	0.0116
17	75.7000	0.4000	3571.9200	591.7602	0.0820	0.0136
18	75.7125	0.4125	3773.3850	637.6626	0.0866	0.0146
19	75.7250	0.4250	3974.8500	686.0836	0.0912	0.0158
20	75.7375	0.4375	4176.3150	737.0232	0.0959	0.0169
21	75.7500	0.4500	4377.7800	790.4814	0.1005	0.0181
22	75.7625	0.4625	4579.2450	846.4581	0.1051	0.0194
23	75.7750	0.4750	4780.7100	904.9533	0.1098	0.0208
24	75.7875	0.4875	4982.1750	965.9670	0.1144	0.0222
25	75.8000	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	75.8125	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	75.8250	0.5250	5771.7000	1166.4244	0.1325	0.0268

28	75.8375	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	75.8500	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	75.8625	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	75.8750	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	75.8875	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	75.9000	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	75.9250	0.6250	8183.8350	1861.8586	0.1879	0.0427
35	75.9500	0.6500	8831.7900	2074.5025	0.2027	0.0476
36	75.9750	0.6750	9479.7450	2303.3489	0.2176	0.0529
37	76.0000	0.7000	10127.7000	2548.3974	0.2325	0.0585
38	76.0250	0.7250	10775.6550	2809.6474	0.2474	0.0645
39	76.0500	0.7500	11423.6100	3087.0988	0.2622	0.0709
40	76.0750	0.7750	12071.5650	3380.7513	0.2771	0.0776
41	76.1000	0.8000	12719.5200	3690.6046	0.2920	0.0847
42	79.5000	4.2000	12719.5200	46936.9726	0.2920	1.0775

Variable storage data for node | CI-174						
Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	74.6500	0.0000	4.3560	0.0000	0.0001	0.0000
2	74.6750	0.0250	150.8265	1.5068	0.0035	0.0000
3	74.7000	0.0500	297.2970	7.0058	0.0068	0.0002
4	74.7250	0.0750	443.7675	16.2082	0.0102	0.0004
5	74.7500	0.1000	590.2380	29.0898	0.0135	0.0007
6	74.7750	0.1250	736.7085	45.6428	0.0169	0.0010
7	74.8000	0.1500	883.1790	65.8638	0.0203	0.0015
8	74.8250	0.1750	1029.6495	89.7507	0.0236	0.0021
9	74.8500	0.2000	1176.1200	117.3026	0.0270	0.0027
10	74.8750	0.2250	1475.5950	150.3783	0.0339	0.0035
11	74.9000	0.2500	1775.0700	190.9540	0.0408	0.0044
12	74.9250	0.2750	2074.5450	239.0256	0.0476	0.0055
13	74.9500	0.3000	2374.0200	294.5906	0.0545	0.0068
14	74.9750	0.3250	2673.4950	357.6475	0.0614	0.0082
15	75.0000	0.3500	2972.9700	428.1952	0.0683	0.0098
16	75.0250	0.3750	3272.4450	506.2330	0.0751	0.0116
17	75.0500	0.4000	3571.9200	591.7602	0.0820	0.0136
18	75.0625	0.4125	3773.3850	637.6626	0.0866	0.0146
19	75.0750	0.4250	3974.8500	686.0836	0.0912	0.0158
20	75.0875	0.4375	4176.3150	737.0232	0.0959	0.0169
21	75.1000	0.4500	4377.7800	790.4814	0.1005	0.0181
22	75.1125	0.4625	4579.2450	846.4581	0.1051	0.0194
23	75.1250	0.4750	4780.7100	904.9533	0.1098	0.0208
24	75.1375	0.4875	4982.1750	965.9670	0.1144	0.0222
25	75.1500	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	75.1625	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	75.1750	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	75.1875	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	75.2000	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	75.2125	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	75.2250	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	75.2375	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	75.2500	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	75.2750	0.6250	8183.8350	1861.8586	0.1879	0.0427
35	75.3000	0.6500	8831.7900	2074.5025	0.2027	0.0476
36	75.3250	0.6750	9479.7450	2303.3489	0.2176	0.0529
37	75.3500	0.7000	10127.7000	2548.3974	0.2325	0.0585
38	75.3750	0.7250	10775.6550	2809.6474	0.2474	0.0645
39	75.4000	0.7500	11423.6100	3087.0988	0.2622	0.0709
40	75.4250	0.7750	12071.5650	3380.7513	0.2771	0.0776
41	75.4500	0.8000	12719.5200	3690.6046	0.2920	0.0847
42	79.4000	4.7500	12719.5200	53932.7086	0.2920	1.2381

Variable storage data for node | MHI-89						
Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	73.5500	0.0000	87.1200	0.0000	0.0020	0.0000
2	73.8625	0.3125	2254.2300	290.0529	0.0517	0.0067
3	74.1750	0.6250	4421.3400	1314.2800	0.1015	0.0302
4	74.4875	0.9375	6588.4500	3023.3416	0.1512	0.0694
5	74.8000	1.2500	8755.5600	5412.8324	0.2010	0.1243
6	75.1125	1.5625	10922.6700	8481.3218	0.2508	0.1947
7	75.4250	1.8750	13089.7800	12228.1635	0.3005	0.2807
8	75.7375	2.1875	15256.8900	16653.0098	0.3502	0.3823
9	76.0500	2.5000	17424.0000	21755.6525	0.4000	0.4994
10	80.4200	6.8700	17424.0000	97898.5325	0.4000	2.2474

Variable storage data for node | MHI-90						
Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	73.0400	0.0000	87.1200	0.0000	0.0020	0.0000
2	73.3525	0.3125	2254.2300	290.0529	0.0517	0.0067
3	73.6650	0.6250	4421.3400	1314.2800	0.1015	0.0302
4	73.9775	0.9375	6588.4500	3023.3416	0.1512	0.0694
5	74.2900	1.2500	8755.5600	5412.8324	0.2010	0.1243
6	74.6025	1.5625	10922.6700	8481.3218	0.2508	0.1947
7	74.9150	1.8750	13089.7800	12228.1635	0.3005	0.2807
8	75.2275	2.1875	15256.8900	16653.0098	0.3502	0.3823
9	75.5400	2.5000	17424.0000	21755.6525	0.4000	0.4994
10	79.7500	6.7100	17424.0000	95110.6925	0.4000	2.1834

Variable storage data for node | CI-172						
Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	75.6400	0.0000	4.3560	0.0000	0.0001	0.0000
2	75.6650	0.0250	150.8265	1.5068	0.0035	0.0000
3	75.6900	0.0500	297.2970	7.0058	0.0068	0.0002
4	75.7150	0.0750	443.7675	16.2082	0.0102	0.0004
5	75.7400	0.1000	590.2380	29.0898	0.0135	0.0007
6	75.7650	0.1250	736.7085	45.6428	0.0169	0.0010
7	75.7900	0.1500	883.1790	65.8638	0.0203	0.0015
8	75.8150	0.1750	1029.6495	89.7507	0.0236	0.0021
9	75.8400	0.2000	1176.1200	117.3026	0.0270	0.0027
10	75.8650	0.2250	1475.5950	150.3783	0.0339	0.0035
11	75.8900	0.2500	1775.0700	190.9540	0.0408	0.0044
12	75.9150	0.2750	2074.5450	239.0256	0.0476	0.0055
13	75.9400	0.3000	2374.0200	294.5906	0.0545	0.0068
14	75.9650	0.3250	2673.4950	357.6475	0.0614	0.0082
15	75.9900	0.3500	2972.9700	428.1952	0.0683	0.0098
16	76.0150	0.3750	3272.4450	506.2330	0.0751	0.0116
17	76.0400	0.4000	3571.9200	591.7602	0.0820	0.0136
18	76.0525	0.4125	3773.3850	637.6626	0.0866	0.0146
19	76.0650	0.4250	3974.8500	686.0836	0.0912	0.0158
20	76.0775	0.4375	4176.3150	737.0232	0.0959	0.0169
21	76.0900	0.4500	4377.7800	790.4814	0.1005	0.0181
22	76.1025	0.4625	4579.2450	846.4581	0.1051	0.0194
23	76.1150	0.4750	4780.7100	904.9533	0.1098	0.0208

24	76.1275	0.4875	4982.1750	965.9670	0.1144	0.0222
25	76.1400	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	76.1525	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	76.1650	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	76.1775	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	76.1900	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	76.2025	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	76.2150	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	76.2275	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	76.2400	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	76.2650	0.6250	8183.8350	1861.8586	0.1879	0.0427
35	76.2900	0.6500	8831.7900	2074.5025	0.2027	0.0476
36	76.3150	0.6750	9479.7450	2303.3489	0.2176	0.0529
37	76.3400	0.7000	10127.7000	2548.3974	0.2325	0.0585
38	76.3650	0.7250	10775.6550	2809.6474	0.2474	0.0645
39	76.3900	0.7500	11423.6100	3087.0988	0.2622	0.0709
40	76.4150	0.7750	12071.5650	3380.7513	0.2771	0.0776
41	76.4400	0.8000	12719.5200	3690.6046	0.2920	0.0847
42	80.0600	4.4200	12719.5200	49735.2670	0.2920	1.1418

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| Variable storage data for node | MHI-91
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	76.0500	0.0000	87.1200	0.0000	0.0020	0.0000
2	76.3625	0.3125	2254.2300	290.0529	0.0517	0.0067
3	76.6750	0.6250	4421.3400	1314.2800	0.1015	0.0302
4	76.9875	0.9375	6588.4500	3023.3416	0.1512	0.0694
5	77.3000	1.2500	8755.5600	5412.8324	0.2010	0.1243
6	77.6125	1.5625	10922.6700	8481.3218	0.2508	0.1947
7	77.9250	1.8750	13089.7800	12228.1635	0.3005	0.2807
8	78.2375	2.1875	15256.8900	16653.0098	0.3502	0.3823
9	78.5500	2.5000	17424.0000	21755.6525	0.4000	0.4994
10	81.4200	5.3700	17424.0000	71762.5325	0.4000	1.6474

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| Variable storage data for node | CI-171
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	76.1000	0.0000	4.3560	0.0000	0.0001	0.0000
2	76.1250	0.0250	150.8265	1.5068	0.0035	0.0000
3	76.1500	0.0500	297.2970	7.0058	0.0068	0.0002
4	76.1750	0.0750	443.7675	16.2082	0.0102	0.0004
5	76.2000	0.1000	590.2380	29.0898	0.0135	0.0007
6	76.2250	0.1250	736.7085	45.6428	0.0169	0.0010
7	76.2500	0.1500	883.1790	65.8638	0.0203	0.0015
8	76.2750	0.1750	1029.6495	89.7507	0.0236	0.0021
9	76.3000	0.2000	1176.1200	117.3026	0.0270	0.0027
10	76.3250	0.2250	1475.5950	150.3783	0.0339	0.0035
11	76.3500	0.2500	1775.0700	190.9540	0.0408	0.0044
12	76.3750	0.2750	2074.5450	239.0256	0.0476	0.0055
13	76.4000	0.3000	2374.0200	294.5906	0.0545	0.0068
14	76.4250	0.3250	2673.4950	357.6475	0.0614	0.0082
15	76.4500	0.3500	2972.9700	428.1952	0.0683	0.0098
16	76.4750	0.3750	3272.4450	506.2330	0.0751	0.0116
17	76.5000	0.4000	3571.9200	591.7602	0.0820	0.0136
18	76.5125	0.4125	3773.3850	637.6626	0.0866	0.0146
19	76.5250	0.4250	3974.8500	686.0836	0.0912	0.0158
20	76.5375	0.4375	4176.3150	737.0232	0.0959	0.0169
21	76.5500	0.4500	4377.7800	790.4814	0.1005	0.0181
22	76.5625	0.4625	4579.2450	846.4581	0.1051	0.0194
23	76.5750	0.4750	4780.7100	904.9533	0.1098	0.0208
24	76.5875	0.4875	4982.1750	965.9670	0.1144	0.0222
25	76.6000	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	76.6125	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	76.6250	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	76.6375	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	76.6500	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	76.6625	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	76.6750	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	76.6875	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	76.7000	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	76.7250	0.6250	8183.8350	1861.8586	0.1879	0.0427
35	76.7500	0.6500	8831.7900	2074.5025	0.2027	0.0476
36	76.7750	0.6750	9479.7450	2303.3489	0.2176	0.0529
37	76.8000	0.7000	10127.7000	2548.3974	0.2325	0.0585
38	76.8250	0.7250	10775.6550	2809.6474	0.2474	0.0645
39	76.8500	0.7500	11423.6100	3087.0988	0.2622	0.0709
40	76.8750	0.7750	12071.5650	3380.7513	0.2771	0.0776
41	76.9000	0.8000	12719.5200	3690.6046	0.2920	0.0847
42	81.5000	5.4000	12719.5200	62200.3966	0.2920	1.4279

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| Variable storage data for node | CI-170
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	75.6100	0.0000	4.3560	0.0000	0.0001	0.0000
2	75.6350	0.0250	150.8265	1.5068	0.0035	0.0000
3	75.6600	0.0500	297.2970	7.0058	0.0068	0.0002
4	75.6850	0.0750	443.7675	16.2082	0.0102	0.0004
5	75.7100	0.1000	590.2380	29.0898	0.0135	0.0007
6	75.7350	0.1250	736.7085	45.6428	0.0169	0.0010
7	75.7600	0.1500	883.1790	65.8638	0.0203	0.0015
8	75.7850	0.1750	1029.6495	89.7507	0.0236	0.0021
9	75.8100	0.2000	1176.1200	117.3026	0.0270	0.0027
10	75.8350	0.2250	1475.5950	150.3783	0.0339	0.0035
11	75.8600	0.2500	1775.0700	190.9540	0.0408	0.0044
12	75.8850	0.2750	2074.5450	239.0256	0.0476	0.0055
13	75.9100	0.3000	2374.0200	294.5906	0.0545	0.0068
14	75.9350	0.3250	2673.4950	357.6475	0.0614	0.0082
15	75.9600	0.3500	2972.9700	428.1952	0.0683	0.0098
16	75.9850	0.3750	3272.4450	506.2330	0.0751	0.0116
17	76.0100	0.4000	3571.9200	591.7602	0.0820	0.0136
18	76.0225	0.4125	3773.3850	637.6626	0.0866	0.0146
19	76.0350	0.4250	3974.8500	686.0836	0.0912	0.0158
20	76.0475	0.4375	4176.3150	737.0232	0.0959	0.0169
21	76.0600	0.4500	4377.7800	790.4814	0.1005	0.0181
22	76.0725	0.4625	4579.2450	846.4581	0.1051	0.0194
23	76.0850	0.4750	4780.7100	904.9533	0.1098	0.0208
24	76.0975	0.4875	4982.1750	965.9670	0.1144	0.0222
25	76.1100	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	76.1225	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	76.1350	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	76.1475	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	76.1600	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	76.1725	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	76.1850	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	76.1975	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	76.2100	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	76.2350	0.6250	8183.8350	1861.8586	0.1879	0.0427
35	76.2600	0.6500	8831.7900	2074.5025	0.2027	0.0476
36	76.2850	0.6750	9479.7450	2303.3489	0.2176	0.0529

37	76.3100	0.7000	10127.7000	2548.3974	0.2325	0.0585
38	76.3350	0.7250	10775.6550	2809.6474	0.2474	0.0645
39	76.3600	0.7500	11423.6100	3087.0988	0.2622	0.0709
40	76.3850	0.7750	12071.5650	3380.7513	0.2771	0.0776
41	76.4100	0.8000	12719.5200	3690.6046	0.2920	0.0847
42	80.0400	4.4300	12719.5200	49862.4622	0.2920	1.1447

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| Variable storage data for node | CI-169
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	76.5100	0.0000	4.3560	0.0000	0.0001	0.0000
2	76.5350	0.0250	150.8265	1.5068	0.0035	0.0000
3	76.5600	0.0500	297.2970	7.0058	0.0068	0.0002
4	76.5850	0.0750	443.7675	16.2082	0.0102	0.0004
5	76.6100	0.1000	590.2380	29.0898	0.0135	0.0007
6	76.6350	0.1250	736.7085	45.6428	0.0169	0.0010
7	76.6600	0.1500	883.1790	65.8638	0.0203	0.0015
8	76.6850	0.1750	1029.6495	89.7507	0.0236	0.0021
9	76.7100	0.2000	1176.1200	117.3026	0.0270	0.0027
10	76.7350	0.2250	1475.5950	150.3783	0.0339	0.0035
11	76.7600	0.2500	1775.0700	190.9540	0.0408	0.0044
12	76.7850	0.2750	2074.5450	239.0256	0.0476	0.0055
13	76.8100	0.3000	2374.0200	294.5906	0.0545	0.0068
14	76.8350	0.3250	2673.4950	357.6475	0.0614	0.0082
15	76.8600	0.3500	2972.9700	428.1952	0.0683	0.0098
16	76.8850	0.3750	3272.4450	506.2330	0.0751	0.0116
17	76.9100	0.4000	3571.9200	591.7602	0.0820	0.0136
18	76.9225	0.4125	3773.3850	637.6626	0.0866	0.0146
19	76.9350	0.4250	3974.8500	686.0836	0.0912	0.0158
20	76.9475	0.4375	4176.3150	737.0232	0.0959	0.0169
21	76.9600	0.4500	4377.7800	790.4814	0.1005	0.0181
22	76.9725	0.4625	4579.2450	846.4581	0.1051	0.0194
23	76.9850	0.4750	4780.7100	904.9533	0.1098	0.0208
24	76.9975	0.4875	4982.1750	965.9670	0.1144	0.0222
25	77.0100	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	77.0225	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	77.0350	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	77.0475	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	77.0600	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	77.0725	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	77.0850	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	77.0975	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	77.1100	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	77.1350	0.6250	8183.8350	1861.8586	0.1879	0.0427
35	77.1600	0.6500	8831.7900	2074.5025	0.2027	0.0476
36	77.1850	0.6750	9479.7450	2303.3489	0.2176	0.0529
37	77.2100	0.7000	10127.7000	2548.3974	0.2325	0.0585
38	77.2350	0.7250	10775.6550	2809.6474	0.2474	0.0645
39	77.2600	0.7500	11423.6100	3087.0988	0.2622	0.0709
40	77.2850	0.7750	12071.5650	3380.7513	0.2771	0.0776
41	77.3100	0.8000	12719.5200	3690.6046	0.2920	0.0847
42	81.0500	4.5400	12719.5200	51261.6094	0.2920	1.1768

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| Variable storage data for node | MHI-88
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	73.8800	0.0000	87.1200	0.0000	0.0020	0.0000
2	74.1925	0.3125	2254.2300	290.0529	0.0517	0.0067
3	74.5050	0.6250	4421.3400	1314.2800	0.1015	0.0302
4	74.8175	0.9375	6588.4500	3023.3416	0.1512	0.0694
5	75.1300	1.2500	8755.5600	5412.8324	0.2010	0.1243
6	75.4425	1.5625	10922.6700	8481.3218	0.2508	0.1947
7	75.7550	1.8750	13089.7800	12228.1635	0.3005	0.2807
8	76.0675	2.1875	15256.8900	16653.0098	0.3502	0.3823
9	76.3800	2.5000	17424.0000	21755.6525	0.4000	0.4994
10	80.4200	6.5400	17424.0000	92148.6125	0.4000	2.1154

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| Variable storage data for node | CI-165
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	73.9400	0.0000	4.3560	0.0000	0.0001	0.0000
2	73.9650	0.0250	150.8265	1.5068	0.0035	0.0000
3	73.9900	0.0500	297.2970	7.0058	0.0068	0.0002
4	74.0150	0.0750	443.7675	16.2082	0.0102	0.0004
5	74.0400	0.1000	590.2380	29.0898	0.0135	0.0007
6	74.0650	0.1250	736.7085	45.6428	0.0169	0.0010
7	74.0900	0.1500	883.1790	65.8638	0.0203	0.0015
8	74.1150	0.1750	1029.6495	89.7507	0.0236	0.0021
9	74.1400	0.2000	1176.1200	117.3026	0.0270	0.0027
10	74.1650	0.2250	1475.5950	150.3783	0.0339	0.0035
11	74.1900	0.2500	1775.0700	190.9540	0.0408	0.0044
12	74.2150	0.2750	2074.5450	239.0256	0.0476	0.0055
13	74.2400	0.3000	2374.0200	294.5906	0.0545	0.0068
14	74.2650	0.3250	2673.4950	357.6475	0.0614	0.0082
15	74.2900	0.3500	2972.9700	428.1952	0.0683	0.0098
16	74.3150	0.3750	3272.4450	506.2330	0.0751	0.0116
17	74.3400	0.4000	3571.9200	591.7602	0.0820	0.0136
18	74.3525	0.4125	3773.3850	637.6626	0.0866	0.0146
19	74.3650	0.4250	3974.8500	686.0836	0.0912	0.0158
20	74.3775	0.4375	4176.3150	737.0232	0.0959	0.0169
21	74.3900	0.4500	4377.7800	790.4814	0.1005	0.0181
22	74.4025	0.4625	4579.2450	846.4581	0.1051	0.0194
23	74.4150	0.4750	4780.7100	904.9533	0.1098	0.0208
24	74.4275	0.4875	4982.1750	965.9670	0.1144	0.0222
25	74.4400	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	74.4525	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	74.4650	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	74.4775	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	74.4900	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	74.5025	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	74.5150	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	74.5275	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	74.5400	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	74.5650	0.6250	8183.8350	1861.8586	0.1879	0.0427
35	74.5900	0.6500	8831.7900	2074.5025	0.2027	0.0476
36	74.6150	0.6750	9479.7450	2303.3489	0.2176	0.0529
37	74.6400	0.7000	10127.7000	2548.3974	0.2325	0.0585
38	74.6650	0.7250	10775.6550	2809.6474	0.2474	0.0645
39	74.6900	0.7500	11423.6100	3087.0988	0.2622	0.0709
40	74.7150	0.7750	12071.5650	3380.7513	0.2771	0.0776
41	74.7400	0.8000	12719.5200	3690.6046	0.2920	0.0847
42	80.5000	6.5600	12719.5200	76955.0398	0.2920	1.7666

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| Variable storage data for node | CI-164
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft

1	74.7200	0.0000	4.3560	0.0000	0.0001	0.0000
2	74.7450	0.0250	150.8265	1.5068	0.0035	0.0000
3	74.7700	0.0500	297.2970	7.0058	0.0068	0.0002
4	74.7950	0.0750	443.7675	16.2082	0.0102	0.0004
5	74.8200	0.1000	590.2380	29.0898	0.0135	0.0007
6	74.8450	0.1250	736.7085	45.6428	0.0169	0.0010
7	74.8700	0.1500	883.1790	65.8638	0.0203	0.0015
8	74.8950	0.1750	1029.6495	89.7507	0.0236	0.0021
9	74.9200	0.2000	1176.1200	117.3026	0.0270	0.0027
10	74.9450	0.2250	1475.5950	150.3783	0.0339	0.0035
11	74.9700	0.2500	1775.0700	190.9540	0.0408	0.0044
12	74.9950	0.2750	2074.5450	239.0256	0.0476	0.0055
13	75.0200	0.3000	2374.0200	294.5906	0.0545	0.0068
14	75.0450	0.3250	2673.4950	357.6475	0.0614	0.0082
15	75.0700	0.3500	2972.9700	428.1952	0.0683	0.0098
16	75.0950	0.3750	3272.4450	506.2330	0.0751	0.0116
17	75.1200	0.4000	3571.9200	591.7602	0.0820	0.0136
18	75.1325	0.4125	3773.3850	637.6626	0.0866	0.0146
19	75.1450	0.4250	3974.8500	686.0836	0.0912	0.0158
20	75.1575	0.4375	4176.3150	737.0232	0.0959	0.0169
21	75.1700	0.4500	4377.7800	790.4814	0.1005	0.0181
22	75.1825	0.4625	4579.2450	846.4581	0.1051	0.0194
23	75.1950	0.4750	4780.7100	904.9533	0.1098	0.0208
24	75.2075	0.4875	4982.1750	965.9670	0.1144	0.0222
25	75.2200	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	75.2325	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	75.2450	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	75.2575	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	75.2700	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	75.2825	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	75.2950	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	75.3075	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	75.3200	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	75.3450	0.6250	8183.8350	1861.8586	0.1879	0.0427
35	75.3700	0.6500	8831.7900	2074.5025	0.2027	0.0476
36	75.3950	0.6750	9479.7450	2303.3489	0.2176	0.0529
37	75.4200	0.7000	10127.7000	2548.3974	0.2325	0.0585
38	75.4450	0.7250	10775.6550	2809.6474	0.2474	0.0645
39	75.4700	0.7500	11423.6100	3087.0988	0.2622	0.0709
40	75.4950	0.7750	12071.5650	3380.7513	0.2771	0.0776
41	75.5200	0.8000	12719.5200	3690.6046	0.2920	0.0847
42	81.1000	6.3800	12719.5200	74665.5262	0.2920	1.7141

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| Variable storage data for node | CI-168
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	76.7500	0.0000	4.3560	0.0000	0.0001	0.0000
2	76.7750	0.0250	150.8265	1.5068	0.0035	0.0000
3	76.8000	0.0500	297.2970	7.0058	0.0068	0.0002
4	76.8250	0.0750	443.7675	16.2082	0.0102	0.0004
5	76.8500	0.1000	590.2380	29.0898	0.0135	0.0007
6	76.8750	0.1250	736.7085	45.6428	0.0169	0.0010
7	76.9000	0.1500	883.1790	65.8638	0.0203	0.0015
8	76.9250	0.1750	1029.6495	89.7507	0.0236	0.0021
9	76.9500	0.2000	1176.1200	117.3026	0.0270	0.0027
10	76.9750	0.2250	1475.5950	150.3783	0.0339	0.0035
11	77.0000	0.2500	1775.0700	190.9540	0.0408	0.0044
12	77.0250	0.2750	2074.5450	239.0256	0.0476	0.0055
13	77.0500	0.3000	2374.0200	294.5906	0.0545	0.0068
14	77.0750	0.3250	2673.4950	357.6475	0.0614	0.0082
15	77.1000	0.3500	2972.9700	428.1952	0.0683	0.0098
16	77.1250	0.3750	3272.4450	506.2330	0.0751	0.0116
17	77.1500	0.4000	3571.9200	591.7602	0.0820	0.0136
18	77.1625	0.4125	3773.3850	637.6626	0.0866	0.0146
19	77.1750	0.4250	3974.8500	686.0836	0.0912	0.0158
20	77.1875	0.4375	4176.3150	737.0232	0.0959	0.0169
21	77.2000	0.4500	4377.7800	790.4814	0.1005	0.0181
22	77.2125	0.4625	4579.2450	846.4581	0.1051	0.0194
23	77.2250	0.4750	4780.7100	904.9533	0.1098	0.0208
24	77.2375	0.4875	4982.1750	965.9670	0.1144	0.0222
25	77.2500	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	77.2625	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	77.2750	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	77.2875	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	77.3000	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	77.3125	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	77.3250	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	77.3375	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	77.3500	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	77.3750	0.6250	8183.8350	1861.8586	0.1879	0.0427
35	77.4000	0.6500	8831.7900	2074.5025	0.2027	0.0476
36	77.4250	0.6750	9479.7450	2303.3489	0.2176	0.0529
37	77.4500	0.7000	10127.7000	2548.3974	0.2325	0.0585
38	77.4750	0.7250	10775.6550	2809.6474	0.2474	0.0645
39	77.5000	0.7500	11423.6100	3087.0988	0.2622	0.0709
40	77.5250	0.7750	12071.5650	3380.7513	0.2771	0.0776
41	77.5500	0.8000	12719.5200	3690.6046	0.2920	0.0847
42	81.8200	5.0700	12719.5200	58002.9550	0.2920	1.3316

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| Variable storage data for node | MHI-87
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	76.7000	0.0000	87.1200	0.0000	0.0020	0.0000
2	77.0125	0.3125	2254.2300	290.0529	0.0517	0.0067
3	77.3250	0.6250	4421.3400	1314.2800	0.1015	0.0302
4	77.6375	0.9375	6588.4500	3053.3416	0.1512	0.0694
5	77.9500	1.2500	8755.5600	5412.8324	0.2010	0.1243
6	78.2625	1.5625	10922.6700	8481.3218	0.2508	0.1947
7	78.5750	1.8750	13089.7800	12228.1635	0.3005	0.2807
8	78.8875	2.1875	15256.8900	16653.0098	0.3502	0.3823
9	79.2000	2.5000	17424.0000	21755.6525	0.4000	0.4994
10	80.3800	3.6800	17424.0000	42315.9725	0.4000	0.9714

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| Variable storage data for node | CI-163
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	75.0500	0.0000	4.3560	0.0000	0.0001	0.0000
2	75.0750	0.0250	150.8265	1.5068	0.0035	0.0000
3	75.1000	0.0500	297.2970	7.0058	0.0068	0.0002
4	75.1250	0.0750	443.7675	16.2082	0.0102	0.0004
5	75.1500	0.1000	590.2380	29.0898	0.0135	0.0007
6	75.1750	0.1250	736.7085	45.6428	0.0169	0.0010
7	75.2000	0.1500	883.1790	65.8638	0.0203	0.0015
8	75.2250	0.1750	1029.6495	89.7507	0.0236	0.0021
9	75.2500	0.2000	1176.1200	117.3026	0.0270	0.0027
10	75.2750	0.2250	1475.5950	150.3783	0.0339	0.0035
11	75.3000	0.2500	1775.0700	190.9540	0.0408	0.0044
12	75.3250	0.2750	2074.5450	239.0256	0.0476	0.0055
13	75.3500	0.3000	2374.0200	294.5906	0.0545	0.0068

14	75.3750	0.3250	2673.4950	357.6475	0.0614	0.0082
15	75.4000	0.3500	2972.9700	428.1952	0.0683	0.0098
16	75.4250	0.3750	3272.4450	506.2330	0.0751	0.0116
17	75.4500	0.4000	3571.9200	591.7602	0.0820	0.0136
18	75.4625	0.4125	3773.3850	637.6626	0.0866	0.0146
19	75.4750	0.4250	3974.8500	686.0836	0.0912	0.0158
20	75.4875	0.4375	4176.3150	737.0232	0.0959	0.0169
21	75.5000	0.4500	4377.7800	790.4814	0.1005	0.0181
22	75.5125	0.4625	4579.2450	846.4581	0.1051	0.0194
23	75.5250	0.4750	4780.7100	904.9533	0.1098	0.0208
24	75.5375	0.4875	4982.1750	965.9670	0.1144	0.0222
25	75.5500	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	75.5625	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	75.5750	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	75.5875	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	75.6000	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	75.6125	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	75.6250	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	75.6375	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	75.6500	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	75.6750	0.6250	8183.8350	1861.8586	0.1879	0.0427
35	75.7000	0.6500	8831.7900	2074.5025	0.2027	0.0476
36	75.7250	0.6750	9479.7450	2303.3489	0.2176	0.0529
37	75.7500	0.7000	10127.7000	2548.3974	0.2325	0.0585
38	75.7750	0.7250	10775.6550	2809.6474	0.2474	0.0645
39	75.8000	0.7500	11423.6100	3087.0988	0.2622	0.0709
40	75.8250	0.7750	12071.5650	3380.7513	0.2771	0.0776
41	75.8500	0.8000	12719.5200	3690.6046	0.2920	0.0847
42	81.8100	6.7600	12719.5200	79498.9438	0.2920	1.8250

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| Variable storage data for node | CI-6
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	72.8100	0.0000	4.3560	0.0000	0.0001	0.0000
2	72.8350	0.0250	150.8265	1.5068	0.0035	0.0000
3	72.8600	0.0500	297.2970	7.0058	0.0068	0.0002
4	72.8850	0.0750	443.7675	16.2082	0.0102	0.0004
5	72.9100	0.1000	590.2380	29.0898	0.0135	0.0007
6	72.9350	0.1250	736.7085	45.6428	0.0169	0.0010
7	72.9600	0.1500	883.1790	65.8638	0.0203	0.0015
8	72.9850	0.1750	1029.6495	89.7507	0.0236	0.0021
9	73.0100	0.2000	1176.1200	117.3026	0.0270	0.0027
10	73.0350	0.2250	1475.5950	150.3783	0.0339	0.0035
11	73.0600	0.2500	1775.0700	190.9540	0.0408	0.0044
12	73.0850	0.2750	2074.5450	239.0256	0.0476	0.0055
13	73.1100	0.3000	2374.0200	294.5906	0.0545	0.0068
14	73.1350	0.3250	2673.4950	357.6475	0.0614	0.0082
15	73.1600	0.3500	2972.9700	428.1952	0.0683	0.0098
16	73.1850	0.3750	3272.4450	506.2330	0.0751	0.0116
17	73.2100	0.4000	3571.9200	591.7602	0.0820	0.0136
18	73.2225	0.4125	3773.3850	637.6626	0.0866	0.0146
19	73.2350	0.4250	3974.8500	686.0836	0.0912	0.0158
20	73.2475	0.4375	4176.3150	737.0232	0.0959	0.0169
21	73.2600	0.4500	4377.7800	790.4814	0.1005	0.0181
22	73.2725	0.4625	4579.2450	846.4581	0.1051	0.0194
23	73.2850	0.4750	4780.7100	904.9533	0.1098	0.0208
24	73.2975	0.4875	4982.1750	965.9670	0.1144	0.0222
25	73.3100	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	73.3225	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	73.3350	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	73.3475	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	73.3600	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	73.3725	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	73.3850	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	73.3975	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	73.4100	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	73.4350	0.6250	8183.8350	1861.8586	0.1879	0.0427
35	73.4600	0.6500	8831.7900	2074.5025	0.2027	0.0476
36	73.4850	0.6750	9479.7450	2303.3489	0.2176	0.0529
37	73.5100	0.7000	10127.7000	2548.3974	0.2325	0.0585
38	73.5350	0.7250	10775.6550	2809.6474	0.2474	0.0645
39	73.5600	0.7500	11423.6100	3087.0988	0.2622	0.0709
40	73.5850	0.7750	12071.5650	3380.7513	0.2771	0.0776
41	73.6100	0.8000	12719.5200	3690.6046	0.2920	0.0847
42	76.2000	3.3900	12719.5200	36634.1614	0.2920	0.8410

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| Variable storage data for node | CI-6A
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	74.7100	0.0000	4.3560	0.0000	0.0001	0.0000
2	74.7350	0.0250	150.8265	1.5068	0.0035	0.0000
3	74.7600	0.0500	297.2970	7.0058	0.0068	0.0002
4	74.7850	0.0750	443.7675	16.2082	0.0102	0.0004
5	74.8100	0.1000	590.2380	29.0898	0.0135	0.0007
6	74.8350	0.1250	736.7085	45.6428	0.0169	0.0010
7	74.8600	0.1500	883.1790	65.8638	0.0203	0.0015
8	74.8850	0.1750	1029.6495	89.7507	0.0236	0.0021
9	74.9100	0.2000	1176.1200	117.3026	0.0270	0.0027
10	74.9350	0.2250	1475.5950	150.3783	0.0339	0.0035
11	74.9600	0.2500	1775.0700	190.9540	0.0408	0.0044
12	74.9850	0.2750	2074.5450	239.0256	0.0476	0.0055
13	75.0100	0.3000	2374.0200	294.5906	0.0545	0.0068
14	75.0350	0.3250	2673.4950	357.6475	0.0614	0.0082
15	75.0600	0.3500	2972.9700	428.1952	0.0683	0.0098
16	75.0850	0.3750	3272.4450	506.2330	0.0751	0.0116
17	75.1100	0.4000	3571.9200	591.7602	0.0820	0.0136
18	75.1225	0.4125	3773.3850	637.6626	0.0866	0.0146
19	75.1350	0.4250	3974.8500	686.0836	0.0912	0.0158
20	75.1475	0.4375	4176.3150	737.0232	0.0959	0.0169
21	75.1600	0.4500	4377.7800	790.4814	0.1005	0.0181
22	75.1725	0.4625	4579.2450	846.4581	0.1051	0.0194
23	75.1850	0.4750	4780.7100	904.9533	0.1098	0.0208
24	75.1975	0.4875	4982.1750	965.9670	0.1144	0.0222
25	75.2100	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	75.2225	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	75.2350	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	75.2475	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	75.2600	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	75.2725	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	75.2850	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	75.2975	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	75.3100	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	75.3350	0.6250	8183.8350	1861.8586	0.1879	0.0427
35	75.3600	0.6500	8831.7900	2074.5025	0.2027	0.0476
36	75.3850	0.6750	9479.7450	2303.3489	0.2176	0.0529
37	75.4100	0.7000	10127.7000	2548.3974	0.2325	0.0585
38	75.4350	0.7250	10775.6550	2809.6474	0.2474	0.0645
39	75.4600	0.7500	11423.6100	3087.0988	0.2622	0.0709
40	75.4850	0.7750	12071.5650	3380.7513	0.2771	0.0776
41	75.5100	0.8000	12719.5200	3690.6046	0.2920	0.0847
42	77.5000	2.7900	12719.5200	29002.4494	0.2920	0.6658

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| Variable storage data for node | CI-5
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	72.8100	0.0000	4.3560	0.0000	0.0001	0.0000
2	72.8350	0.0250	150.8265	1.5068	0.0035	0.0000
3	72.8600	0.0500	297.2970	7.0058	0.0068	0.0002
4	72.8850	0.0750	443.7675	16.2082	0.0102	0.0004
5	72.9100	0.1000	590.2380	29.0898	0.0135	0.0007
6	72.9350	0.1250	736.7085	45.6428	0.0169	0.0010
7	72.9600	0.1500	883.1790	65.8638	0.0203	0.0015
8	72.9850	0.1750	1029.6495	89.7507	0.0236	0.0021
9	73.0100	0.2000	1176.1200	117.3026	0.0270	0.0027
10	73.0350	0.2250	1475.5950	150.3783	0.0339	0.0035
11	73.0600	0.2500	1775.0700	190.9540	0.0408	0.0044
12	73.0850	0.2750	2074.5450	239.0256	0.0476	0.0055
13	73.1100	0.3000	2374.0200	294.5906	0.0545	0.0068
14	73.1350	0.3250	2673.4950	357.6475	0.0614	0.0082
15	73.1600	0.3500	2972.9700	428.1952	0.0683	0.0098
16	73.1850	0.3750	3272.4450	506.2330	0.0751	0.0116
17	73.2100	0.4000	3571.9200	591.7602	0.0820	0.0136
18	73.2225	0.4125	3773.3850	637.6626	0.0866	0.0146
19	73.2350	0.4250	3974.8500	686.0836	0.0912	0.0158
20	73.2475	0.4375	4176.3150	737.0232	0.0959	0.0169
21	73.2600	0.4500	4377.7800	790.4814	0.1005	0.0181
22	73.2725	0.4625	4579.2450	846.4581	0.1051	0.0194
23	73.2850	0.4750	4780.7100	904.9533	0.1098	0.0208
24	73.2975	0.4875	4982.1750	965.9670	0.1144	0.0222
25	73.3100	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	73.3225	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	73.3350	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	73.3475	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	73.3600	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	73.3725	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	73.3850	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	73.3975	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	73.4100	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	73.4350	0.6250	8183.8350	1861.8586	0.1879	0.0427
35	73.4600	0.6500	8831.7900	2074.5025	0.2027	0.0476
36	73.4850	0.6750	9479.7450	2303.3489	0.2176	0.0529
37	73.5100	0.7000	10127.7000	2548.3974	0.2325	0.0585
38	73.5350	0.7250	10775.6550	2809.6474	0.2474	0.0645
39	73.5600	0.7500	11423.6100	3087.0988	0.2622	0.0709
40	73.5850	0.7750	12071.5650	3380.7513	0.2771	0.0776
41	73.6100	0.8000	12719.5200	3690.6046	0.2920	0.0847
42	76.4000	3.5900	12719.5200	39178.0654	0.2920	0.8994

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| Variable storage data for node | CI-5A
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	75.0100	0.0000	4.3560	0.0000	0.0001	0.0000
2	75.0350	0.0250	150.8265	1.5068	0.0035	0.0000
3	75.0600	0.0500	297.2970	7.0058	0.0068	0.0002
4	75.0850	0.0750	443.7675	16.2082	0.0102	0.0004
5	75.1100	0.1000	590.2380	29.0898	0.0135	0.0007
6	75.1350	0.1250	736.7085	45.6428	0.0169	0.0010
7	75.1600	0.1500	883.1790	65.8638	0.0203	0.0015
8	75.1850	0.1750	1029.6495	89.7507	0.0236	0.0021
9	75.2100	0.2000	1176.1200	117.3026	0.0270	0.0027
10	75.2350	0.2250	1475.5950	150.3783	0.0339	0.0035
11	75.2600	0.2500	1775.0700	190.9540	0.0408	0.0044
12	75.2850	0.2750	2074.5450	239.0256	0.0476	0.0055
13	75.3100	0.3000	2374.0200	294.5906	0.0545	0.0068
14	75.3350	0.3250	2673.4950	357.6475	0.0614	0.0082
15	75.3600	0.3500	2972.9700	428.1952	0.0683	0.0098
16	75.3850	0.3750	3272.4450	506.2330	0.0751	0.0116
17	75.4100	0.4000	3571.9200	591.7602	0.0820	0.0136
18	75.4225	0.4125	3773.3850	637.6626	0.0866	0.0146
19	75.4350	0.4250	3974.8500	686.0836	0.0912	0.0158
20	75.4475	0.4375	4176.3150	737.0232	0.0959	0.0169
21	75.4600	0.4500	4377.7800	790.4814	0.1005	0.0181
22	75.4725	0.4625	4579.2450	846.4581	0.1051	0.0194
23	75.4850	0.4750	4780.7100	904.9533	0.1098	0.0208
24	75.4975	0.4875	4982.1750	965.9670	0.1144	0.0222
25	75.5100	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	75.5225	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	75.5350	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	75.5475	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	75.5600	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	75.5725	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	75.5850	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	75.5975	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	75.6100	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	75.6350	0.6250	8183.8350	1861.8586	0.1879	0.0427
35	75.6600	0.6500	8831.7900	2074.5025	0.2027	0.0476
36	75.6850	0.6750	9479.7450	2303.3489	0.2176	0.0529
37	75.7100	0.7000	10127.7000	2548.3974	0.2325	0.0585
38	75.7350	0.7250	10775.6550	2809.6474	0.2474	0.0645
39	75.7600	0.7500	11423.6100	3087.0988	0.2622	0.0709
40	75.7850	0.7750	12071.5650	3380.7513	0.2771	0.0776
41	75.8100	0.8000	12719.5200	3690.6046	0.2920	0.0847
42	77.3700	2.3600	12719.5200	23533.0558	0.2920	0.5402

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| Variable storage data for node | CI-4A
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	74.9100	0.0000	4.3560	0.0000	0.0001	0.0000
2	74.9350	0.0250	150.8265	1.5068	0.0035	0.0000
3	74.9600	0.0500	297.2970	7.0058	0.0068	0.0002
4	74.9850	0.0750	443.7675	16.2082	0.0102	0.0004
5	75.0100	0.1000	590.2380	29.0898	0.0135	0.0007
6	75.0350	0.1250	736.7085	45.6428	0.0169	0.0010
7	75.0600	0.1500	883.1790	65.8638	0.0203	0.0015
8	75.0850	0.1750	1029.6495	89.7507	0.0236	0.0021
9	75.1100	0.2000	1176.1200	117.3026	0.0270	0.0027
10	75.1350	0.2250	1475.5950	150.3783	0.0339	0.0035
11	75.1600	0.2500	1775.0700	190.9540	0.0408	0.0044
12	75.1850	0.2750	2074.5450	239.0256	0.0476	0.0055
13	75.2100	0.3000	2374.0200	294.5906	0.0545	0.0068
14	75.2350	0.3250	2673.4950	357.6475	0.0614	0.0082
15	75.2600	0.3500	2972.9700	428.1952	0.0683	0.0098
16	75.2850	0.3750	3272.4450	506.2330	0.0751	0.0116
17	75.3100	0.4000	3571.9200	591.7602	0.0820	0.0136
18	75.3225	0.4125	3773.3850	637.6626	0.0866	0.0146
19	75.3350	0.4250	3974.8500	686.0836	0.0912	0.0158
20	75.3475	0.4375	4176.3150	737.0232	0.0959	0.0169
21	75.3600	0.4500	4377.7800	790.4814	0.1005	0.0181
22	75.3725	0.4625	4579.2450	846.4581	0.1051	0.0194
23	75.3850	0.4750	4780.7100	904.9533	0.1098	0.0208
24	75.3975	0.4875	4982.1750	965.9670	0.1144	0.0222

25	75.4100	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	75.4225	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	75.4350	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	75.4475	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	75.4600	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	75.4725	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	75.4850	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	75.4975	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	75.5100	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	75.5350	0.6250	8183.8350	1861.8586	0.1879	0.0427
35	75.5600	0.6500	8831.7900	2074.5025	0.2027	0.0476
36	75.5850	0.6750	9479.7450	2303.3489	0.2176	0.0529
37	75.6100	0.7000	10127.7000	2548.3974	0.2325	0.0585
38	75.6350	0.7250	10775.6550	2809.6474	0.2474	0.0645
39	75.6600	0.7500	11423.6100	3087.0988	0.2622	0.0709
40	75.6850	0.7750	12071.5650	3380.7513	0.2771	0.0776
41	75.7100	0.8000	12719.5200	3690.6046	0.2920	0.0847
42	76.5000	1.5900	12719.5200	13739.0254	0.2920	0.3154

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| Variable storage data for node | CI-4
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	70.8000	0.0000	4.3560	0.0000	0.0001	0.0000
2	70.8250	0.0250	150.8265	1.5068	0.0035	0.0000
3	70.8500	0.0500	297.2970	7.0058	0.0068	0.0002
4	70.8750	0.0750	443.7675	16.2082	0.0102	0.0004
5	70.9000	0.1000	590.2380	29.0898	0.0135	0.0007
6	70.9250	0.1250	736.7085	45.6428	0.0169	0.0010
7	70.9500	0.1500	883.1790	65.8638	0.0203	0.0015
8	70.9750	0.1750	1029.6495	89.7507	0.0236	0.0021
9	71.0000	0.2000	1176.1200	117.3026	0.0270	0.0027
10	71.0250	0.2250	1475.5950	150.3783	0.0339	0.0035
11	71.0500	0.2500	1775.0700	190.9540	0.0408	0.0044
12	71.0750	0.2750	2074.5450	239.0256	0.0476	0.0055
13	71.1000	0.3000	2374.0200	294.5906	0.0545	0.0068
14	71.1250	0.3250	2673.4950	357.6475	0.0614	0.0082
15	71.1500	0.3500	2972.9700	428.1952	0.0683	0.0098
16	71.1750	0.3750	3272.4450	506.2330	0.0751	0.0116
17	71.2000	0.4000	3571.9200	591.7602	0.0820	0.0136
18	71.2125	0.4125	3773.3850	637.6626	0.0866	0.0146
19	71.2250	0.4250	3974.8500	686.0836	0.0912	0.0158
20	71.2375	0.4375	4176.3150	737.0232	0.0959	0.0169
21	71.2500	0.4500	4377.7800	790.4814	0.1005	0.0181
22	71.2625	0.4625	4579.2450	846.4581	0.1051	0.0194
23	71.2750	0.4750	4780.7100	904.9533	0.1098	0.0208
24	71.2875	0.4875	4982.1750	965.9670	0.1144	0.0222
25	71.3000	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	71.3125	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	71.3250	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	71.3375	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	71.3500	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	71.3625	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	71.3750	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	71.3875	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	71.4000	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	71.4250	0.6250	8183.8350	1861.8586	0.1879	0.0427
35	71.4500	0.6500	8831.7900	2074.5025	0.2027	0.0476
36	71.4750	0.6750	9479.7450	2303.3489	0.2176	0.0529
37	71.5000	0.7000	10127.7000	2548.3974	0.2325	0.0585
38	71.5250	0.7250	10775.6550	2809.6474	0.2474	0.0645
39	71.5500	0.7500	11423.6100	3087.0988	0.2622	0.0709
40	71.5750	0.7750	12071.5650	3380.7513	0.2771	0.0776
41	71.6000	0.8000	12719.5200	3690.6046	0.2920	0.0847
42	77.8000	7.0000	12719.5200	82551.6286	0.2920	1.8951

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| Variable storage data for node | CI-3
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	72.7400	0.0000	4.3560	0.0000	0.0001	0.0000
2	72.7650	0.0250	150.8265	1.5068	0.0035	0.0000
3	72.7900	0.0500	297.2970	7.0058	0.0068	0.0002
4	72.8150	0.0750	443.7675	16.2082	0.0102	0.0004
5	72.8400	0.1000	590.2380	29.0898	0.0135	0.0007
6	72.8650	0.1250	736.7085	45.6428	0.0169	0.0010
7	72.8900	0.1500	883.1790	65.8638	0.0203	0.0015
8	72.9150	0.1750	1029.6495	89.7507	0.0236	0.0021
9	72.9400	0.2000	1176.1200	117.3026	0.0270	0.0027
10	72.9650	0.2250	1475.5950	150.3783	0.0339	0.0035
11	72.9900	0.2500	1775.0700	190.9540	0.0408	0.0044
12	73.0150	0.2750	2074.5450	239.0256	0.0476	0.0055
13	73.0400	0.3000	2374.0200	294.5906	0.0545	0.0068
14	73.0650	0.3250	2673.4950	357.6475	0.0614	0.0082
15	73.0900	0.3500	2972.9700	428.1952	0.0683	0.0098
16	73.1150	0.3750	3272.4450	506.2330	0.0751	0.0116
17	73.1400	0.4000	3571.9200	591.7602	0.0820	0.0136
18	73.1525	0.4125	3773.3850	637.6626	0.0866	0.0146
19	73.1650	0.4250	3974.8500	686.0836	0.0912	0.0158
20	73.1775	0.4375	4176.3150	737.0232	0.0959	0.0169
21	73.1900	0.4500	4377.7800	790.4814	0.1005	0.0181
22	73.2025	0.4625	4579.2450	846.4581	0.1051	0.0194
23	73.2150	0.4750	4780.7100	904.9533	0.1098	0.0208
24	73.2275	0.4875	4982.1750	965.9670	0.1144	0.0222
25	73.2400	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	73.2525	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	73.2650	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	73.2775	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	73.2900	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	73.3025	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	73.3150	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	73.3275	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	73.3400	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	73.3650	0.6250	8183.8350	1861.8586	0.1879	0.0427
35	73.3900	0.6500	8831.7900	2074.5025	0.2027	0.0476
36	73.4150	0.6750	9479.7450	2303.3489	0.2176	0.0529
37	73.4400	0.7000	10127.7000	2548.3974	0.2325	0.0585
38	73.4650	0.7250	10775.6550	2809.6474	0.2474	0.0645
39	73.4900	0.7500	11423.6100	3087.0988	0.2622	0.0709
40	73.5150	0.7750	12071.5650	3380.7513	0.2771	0.0776
41	73.5400	0.8000	12719.5200	3690.6046	0.2920	0.0847
42	79.7700	7.0300	12719.5200	82933.2142	0.2920	1.9039

==================================
| Variable storage data for node | CI-1
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	72.2500	0.0000	4.3560	0.0000	0.0001	0.0000
2	72.2750	0.0250	150.8265	1.5068	0.0035	0.0000
3	72.3000	0.0500	297.2970	7.0058	0.0068	0.0002
4	72.3250	0.0750	443.7675	16.2082	0.0102	0.0004
5	72.3500	0.1000	590.2380	29.0898	0.0135	0.0007

6	72.3750	0.1250	736.7085	45.6428	0.0169	0.0010
7	72.4000	0.1500	883.1790	65.8638	0.0203	0.0015
8	72.4250	0.1750	1029.6495	89.7507	0.0236	0.0021
9	72.4500	0.2000	1176.1200	117.3026	0.0270	0.0027
10	72.4750	0.2250	1475.5950	150.3783	0.0339	0.0035
11	72.5000	0.2500	1775.0700	190.9540	0.0408	0.0044
12	72.5250	0.2750	2074.5450	239.0256	0.0476	0.0055
13	72.5500	0.3000	2374.0200	294.5906	0.0545	0.0068
14	72.5750	0.3250	2673.4950	357.6475	0.0614	0.0082
15	72.6000	0.3500	2972.9700	428.1952	0.0683	0.0098
16	72.6250	0.3750	3272.4450	506.2330	0.0751	0.0116
17	72.6500	0.4000	3571.9200	591.7602	0.0820	0.0136
18	72.6625	0.4125	3773.3850	637.6626	0.0866	0.0146
19	72.6750	0.4250	3974.8500	686.0836	0.0912	0.0158
20	72.6875	0.4375	4176.3150	737.0232	0.0959	0.0169
21	72.7000	0.4500	4377.7800	790.4814	0.1005	0.0181
22	72.7125	0.4625	4579.2450	846.4581	0.1051	0.0194
23	72.7250	0.4750	4780.7100	904.9533	0.1098	0.0208
24	72.7375	0.4875	4982.1750	965.9670	0.1144	0.0222
25	72.7500	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	72.7625	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	72.7750	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	72.7875	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	72.8000	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	72.8125	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	72.8250	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	72.8375	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	72.8500	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	72.8750	0.6250	8183.8350	1861.8586	0.1879	0.0427
35	72.9000	0.6500	8831.7900	2074.5025	0.2027	0.0476
36	72.9250	0.6750	9479.7450	2303.3489	0.2176	0.0529
37	72.9500	0.7000	10127.7000	2548.3974	0.2325	0.0585
38	72.9750	0.7250	10775.6550	2809.6474	0.2474	0.0645
39	73.0000	0.7500	11423.6100	3087.0988	0.2622	0.0709
40	73.0250	0.7750	12071.5650	3380.7513	0.2771	0.0776
41	73.0500	0.8000	12719.5200	3690.6046	0.2920	0.0847
42	77.2000	4.9500	12719.5200	56476.6126	0.2920	1.2965

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| Variable storage data for node | CI-2
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	71.3800	0.0000	4.3560	0.0000	0.0001	0.0000
2	71.4050	0.0250	150.8265	1.5068	0.0035	0.0000
3	71.4300	0.0500	297.2970	7.0058	0.0068	0.0002
4	71.4550	0.0750	443.7675	16.2082	0.0102	0.0004
5	71.4800	0.1000	590.2380	29.0898	0.0135	0.0007
6	71.5050	0.1250	736.7085	45.6428	0.0169	0.0010
7	71.5300	0.1500	883.1790	65.8638	0.0203	0.0015
8	71.5550	0.1750	1029.6495	89.7507	0.0236	0.0021
9	71.5800	0.2000	1176.1200	117.3026	0.0270	0.0027
10	71.6050	0.2250	1475.5950	150.3783	0.0339	0.0035
11	71.6300	0.2500	1775.0700	190.9540	0.0408	0.0044
12	71.6550	0.2750	2074.5450	239.0256	0.0476	0.0055
13	71.6800	0.3000	2374.0200	294.5906	0.0545	0.0068
14	71.7050	0.3250	2673.4950	357.6475	0.0614	0.0082
15	71.7300	0.3500	2972.9700	428.1952	0.0683	0.0098
16	71.7550	0.3750	3272.4450	506.2330	0.0751	0.0116
17	71.7800	0.4000	3571.9200	591.7602	0.0820	0.0136
18	71.7925	0.4125	3773.3850	637.6626	0.0866	0.0146
19	71.8050	0.4250	3974.8500	686.0836	0.0912	0.0158
20	71.8175	0.4375	4176.3150	737.0232	0.0959	0.0169
21	71.8300	0.4500	4377.7800	790.4814	0.1005	0.0181
22	71.8425	0.4625	4579.2450	846.4581	0.1051	0.0194
23	71.8550	0.4750	4780.7100	904.9533	0.1098	0.0208
24	71.8675	0.4875	4982.1750	965.9670	0.1144	0.0222
25	71.8800	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	71.8925	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	71.9050	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	71.9175	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	71.9300	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	71.9425	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	71.9550	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	71.9675	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	71.9800	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	72.0050	0.6250	8183.8350	1861.8586	0.1879	0.0427
35	72.0300	0.6500	8831.7900	2074.5025	0.2027	0.0476
36	72.0550	0.6750	9479.7450	2303.3489	0.2176	0.0529
37	72.0800	0.7000	10127.7000	2548.3974	0.2325	0.0585
38	72.1050	0.7250	10775.6550	2809.6474	0.2474	0.0645
39	72.1300	0.7500	11423.6100	3087.0988	0.2622	0.0709
40	72.1550	0.7750	12071.5650	3380.7513	0.2771	0.0776
41	72.1800	0.8000	12719.5200	3690.6046	0.2920	0.0847
42	76.4000	5.0200	12719.5200	57366.9790	0.2920	1.3170

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| Variable storage data for node | CI-2A
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	74.8100	0.0000	4.3560	0.0000	0.0001	0.0000
2	74.8350	0.0250	150.8265	1.5068	0.0035	0.0000
3	74.8600	0.0500	297.2970	7.0058	0.0068	0.0002
4	74.8850	0.0750	443.7675	16.2082	0.0102	0.0004
5	74.9100	0.1000	590.2380	29.0898	0.0135	0.0007
6	74.9350	0.1250	736.7085	45.6428	0.0169	0.0010
7	74.9600	0.1500	883.1790	65.8638	0.0203	0.0015
8	74.9850	0.1750	1029.6495	89.7507	0.0236	0.0021
9	75.0100	0.2000	1176.1200	117.3026	0.0270	0.0027
10	75.0350	0.2250	1475.5950	150.3783	0.0339	0.0035
11	75.0600	0.2500	1775.0700	190.9540	0.0408	0.0044
12	75.0850	0.2750	2074.5450	239.0256	0.0476	0.0055
13	75.1100	0.3000	2374.0200	294.5906	0.0545	0.0068
14	75.1350	0.3250	2673.4950	357.6475	0.0614	0.0082
15	75.1600	0.3500	2972.9700	428.1952	0.0683	0.0098
16	75.1850	0.3750	3272.4450	506.2330	0.0751	0.0116
17	75.2100	0.4000	3571.9200	591.7602	0.0820	0.0136
18	75.2225	0.4125	3773.3850	637.6626	0.0866	0.0146
19	75.2350	0.4250	3974.8500	686.0836	0.0912	0.0158
20	75.2475	0.4375	4176.3150	737.0232	0.0959	0.0169
21	75.2600	0.4500	4377.7800	790.4814	0.1005	0.0181
22	75.2725	0.4625	4579.2450	846.4581	0.1051	0.0194
23	75.2850	0.4750	4780.7100	904.9533	0.1098	0.0208
24	75.2975	0.4875	4982.1750	965.9670	0.1144	0.0222
25	75.3100	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	75.3225	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	75.3350	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	75.3475	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	75.3600	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	75.3725	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	75.3850	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	75.3975	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	75.4100	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	75.4350	0.6250	8183.8350	1861.8586	0.1879	0.0427
35	75.4600	0.6500	8831.7900	2074.5025	0.2027	0.0476

36	75.4850	0.6750	9479.7450	2303.3489	0.2176	0.0529
37	75.5100	0.7000	10127.7000	2548.3974	0.2325	0.0585
38	75.5350	0.7250	10775.6550	2809.6474	0.2474	0.0645
39	75.5600	0.7500	11423.6100	3087.0988	0.2622	0.0709
40	75.5850	0.7750	12071.5650	3380.7513	0.2771	0.0776
41	75.6100	0.8000	12719.5200	3690.6046	0.2920	0.0847
42	77.5000	2.6900	12719.5200	27730.4974	0.2920	0.6366

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| FREE OUTFALL DATA (DATA GROUP I1) |
| BOUNDARY CONDITION ON DATA GROUP J1 |
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Outfall at Junction....E11504.2 has boundary condition number... 1
Outfall at Junction....E11504.1 has boundary condition number... 2
Outfall at Junction....E11504.3 has boundary condition number... 3

===> Warning !! Outfall Junction E11504.3 has two or more connecting conduits.

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| INTERNAL CONNECTIVITY INFORMATION |
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CONDUIT	JUNCTION	JUNCTION
FREE # 1	E11504.2	BOUNDARY
FREE # 2	E11504.1	BOUNDARY
FREE # 3	E11504.3	BOUNDARY

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| Boundary Condition Information |
| Data Groups J1-J4 |
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| XP Note Field Summary |
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| Table E9 - JUNCTION SUMMARY STATISTICS |
| The Maximum area is only the area of the node, it |
| does not include the area of the surrounding conduits |
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Junction Name	Ground Elevation feet	Uppermost PipeCrown Elevation feet	Maximum Junction Elevation feet	Time of Occurence Hr.	Time of Occurence Min.	Feet of Surcharge at Max Elevation	Freeboard of node feet	Maximum Junction Area ft^2	Maximum Gutter Depth feet	Maximum Gutter Width feet	Maximum Gutter Velocity ft/s
MHI-106	79.6100	75.7500	82.4213	18	30	6.6713	0.0000	83158.623	0.0000	0.0000	0.0000
CI-196	78.7100	75.9800	82.4944	18	28	6.5144	0.0000	12719.520	0.0000	0.0000	0.0000
DI-20	79.3100	76.0500	82.5147	18	25	6.4647	0.0000	12719.520	0.0000	0.0000	0.0000
DI-19	80.2100	76.0500	82.4486	18	23	6.3986	0.0000	12719.520	0.0000	0.0000	0.0000
MHI-110	79.2900	77.2100	82.3761	18	14	5.1661	0.0000	109461.05	0.0000	0.0000	0.0000
MH-43	80.8000	75.7500	82.3947	18	18	6.6447	0.0000	24635.078	0.0000	0.0000	0.0000
MHI-107	80.0000	74.9000	82.3530	18	3	7.4530	0.0000	52584.907	0.0000	0.0000	0.0000
MHI-108	80.0000	75.3800	82.3207	17	56	6.9407	0.0000	50913.090	0.0000	0.0000	0.0000
MHI-109	80.8000	74.9200	82.1456	17	30	7.2256	0.0000	19202.491	0.0000	0.0000	0.0000
MHI-104	80.4000	75.7500	82.6956	17	53	6.9456	0.0000	40005.593	0.0000	0.0000	0.0000
E11504.2	81.6300	74.5200	82.0000	16	44	7.4800	0.0000	12.5660	0.0000	0.0000	0.0000
MH-42	82.5200	75.9700	82.3979	18	18	6.4279	0.1221	12.5660	0.0000	0.0000	0.0000
MHI-105	79.7100	75.6900	82.3993	18	20	6.7093	0.0000	73606.074	0.0000	0.0000	0.0000
CI-194	79.6000	75.7600	82.3994	18	20	6.6394	0.0000	12719.520	0.0000	0.0000	0.0000
DI-18	79.4000	76.3300	82.8606	16	56	6.5306	0.0000	12719.520	0.0000	0.0000	0.0000
CI-193	79.4000	75.9700	82.3998	18	21	6.4298	0.0000	12719.520	0.0000	0.0000	0.0000
DI-21	79.3900	75.9100	82.3996	18	20	6.4896	0.0000	12719.520	0.0000	0.0000	0.0000
CI-195	79.6100	75.8800	82.4304	18	29	6.5504	0.0000	12719.520	0.0000	0.0000	0.0000
CI-197	79.8600	77.2600	82.3777	18	14	5.1177	0.0000	12719.520	0.0000	0.0000	0.0000
DI-22	79.5000	75.4400	82.3773	18	14	6.9373	0.0000	12719.520	0.0000	0.0000	0.0000
DI-23	80.1000	75.1400	82.4693	17	9	7.3293	0.0000	12719.520	0.0000	0.0000	0.0000
CI-189	80.7000	76.6100	82.6423	18	38	6.0323	0.0000	34874.048	0.0000	0.0000	0.0000
CI-190	80.4300	76.5300	82.6379	18	35	6.1079	0.0000	45484.515	0.0000	0.0000	0.0000
MHI-99	80.6800	76.4800	82.6359	18	32	6.1559	0.0000	35349.879	0.0000	0.0000	0.0000
MHI-98	81.6500	76.4900	82.6872	18	12	6.1972	0.0000	14106.696	0.0000	0.0000	0.0000
CI-188	80.3500	76.5700	82.6893	18	13	6.1193	0.0000	51869.209	0.0000	0.0000	0.0000
MHI-100	80.6200	76.0900	82.6800	18	5	6.5900	0.0000	39230.679	0.0000	0.0000	0.0000
MHI-102	79.7100	75.8200	83.1373	17	41	7.3173	0.0000	17424.000	0.0000	0.0000	0.0000
MHI-101	79.7000	76.1900	83.5406	17	35	7.3506	0.0000	17424.000	0.0000	0.0000	0.0000
CI-191	79.6000	76.1800	83.7452	17	32	7.5652	0.0000	12719.520	0.0000	0.0000	0.0000
MHI-103	79.4000	76.1700	82.6624	19	8	6.4924	0.0000	130556.88	0.0000	0.0000	0.0000
CI-192	79.0000	75.7300	82.6638	19	9	6.9338	0.0000	12719.520	0.0000	0.0000	0.0000
DI-24	79.8100	76.1700	88.9119	17	1	12.7419	0.0000	12719.520	0.0000	0.0000	0.0000
DI-34	82.1000	75.6400	82.3893	18	16	6.7493	0.0000	6677.4716	0.0000	0.0000	0.0000
CI-161A	82.2800	79.0800	85.2093	17	7	6.1293	0.0000	12719.520	0.0000	0.0000	0.0000
CI-167	82.2500	79.2000	84.1317	17	6	4.9317	0.0000	12719.520	0.0000	0.0000	0.0000
CI-184	80.3800	77.2900	84.3882	17	22	7.0982	0.0000	12719.520	0.0000	0.0000	0.0000
CI-183	79.5000	77.1200	83.6007	17	46	6.4807	0.0000	12719.520	0.0000	0.0000	0.0000
CI-182	80.7200	77.2200	83.6959	17	42	6.4759	0.0000	12719.520	0.0000	0.0000	0.0000
MHI-97	79.7400	77.5400	83.5115	17	47	5.9715	0.0000	17424.000	0.0000	0.0000	0.0000
CI-187	80.5100	77.2700	83.2678	18	22	5.9978	0.0000	20081.160	0.0000	0.0000	0.0000
CI-186	80.1100	77.1200	83.2944	17	48	6.1744	0.0000	12719.520	0.0000	0.0000	0.0000
CI-185	80.1100	76.9800	83.2793	17	43	6.2993	0.0000	12719.520	0.0000	0.0000	0.0000
CI-179	79.5700	76.6900	83.1929	17	29	6.5029	0.0000	12719.520	0.0000	0.0000	0.0000
CI-178	80.0000	76.7600	83.4440	17	9	6.6840	0.0000	12719.520	0.0000	0.0000	0.0000
MHI-96	80.4400	76.6300	83.1610	17	32	6.5310	0.0000	17424.000	0.0000	0.0000	0.0000
MHI-95	79.6600	76.9000	83.2781	17	31	6.3781	0.0000	17424.000	0.0000	0.0000	0.0000
CI-180	79.6000	77.0500	83.3161	17	31	6.2661	0.0000	12719.520	0.0000	0.0000	0.0000
CI-181	80.0000	76.9500	83.3134	17	33	6.3634	0.0000	12719.520	0.0000	0.0000	0.0000
CI-176	80.3400	76.1700	84.0568	17	55	7.8868	0.0000	12719.520	0.0000	0.0000	0.0000
CI-175	81.0000	76.3800	84.0561	17	55	7.6761	0.0000	12719.520	0.0000	0.0000	0.0000
CI-175S	81.8400	75.8000	84.0561	17	51	8.2561	0.0000	12719.520	0.0000	0.0000	0.0000
MHI-93	80.4000	76.2800	83.8171	17	53	7.5371	0.0000	17424.000	0.0000	0.0000	0.0000
MHI-94	80.0900	76.8600	82.9711	17	30	6.1111	0.0000	17424.000	0.0000	0.0000	0.0000
CI-177	79.5600	77.1900	82.9359	17	27	5.7459	0.0000	12719.520	0.0000	0.0000	0.0000
JCT-177	80.5000	77.1600	82.9273	17	29	5.7673	0.0000	12.5660	0.0000	0.0000	0.0000
MHI-92	79.3500	76.5800	83.1346	17	29	6.5546	0.0000	17424.000	0.0000	0.0000	0.0000
CI-173	79.5000	76.8000	83.1385	17	31	6.3385	0.0000	12719.520	0.0000	0.0000	0.0000
CI-174	79.4000	76.6500	83.1352	17	29	6.4852	0.0000	12719.520	0.0000	0.0000	0.0000
MHI-89	80.4200	77.5500	83.4020	17	26	5.8520	0.0000	17424.000	0.0000	0.0000	0.0000
MHI-90	79.7500	77.0400	83.2973	17	27	6.2573	0.0000	17424.000	0.0000	0.0000	0.0000
CI-172	80.0600	77.1400	83.3678	17	21	6.2278	0.0000	12719.520	0.0000	0.0000	0.0000
MHI-91	81.4200	77.5500	85.5553	17	37	8.0053	0.0000	17424.000	0.0000	0.0000	0.0000
CI-171	81.5000	77.6000	86.6597	16	53	9.0597	0.0000	12719.520	0.0000	0.0000	0.0000
CI-170	80.0400	77.6100	83.4102	17	27	5.8002	0.0000	12719.520	0.0000	0.0000	0.0000
CI-169	81.0500	78.0100	83.4206	17	25	5.4106	0.0000	12719.520	0.0000	0.0000	0.0000
MHI-88	80.4200	77.8800	83.4449	17	21	5.5649	0.0000	17424.000	0.0000	0.0000	0.0000
CI-166	80.5000	78.0900	83.2155	18	29	5.1255	0.0000	75562.811	0.0000	0.0000	0.0000
CI-165	80.5000	77.9400	83.4518	17	20	5.5118	0.0000	12719.520	0.0000	0.0000	0.0000
CI-164	81.1000	78.2200	83.4986	17	17	5.2786	0.0000	12719.520	0.0000	0.0000	0.0000
CI-168	81.8200	78.7500	83.7099	17	41	4.9599	0.0000	12719.520	0.0000	0.0000	0.0000
MHI-87	80.3800	78.7000	83.6827	17	43	4.9827	0.0000	17424.000	0.0000	0.0000	0.0000
CI-163	81.8100	78.5500	83.5250	17	17	4.9750	0.0000	12719.520	0.0000	0.0000	0.0000
CNT-01	81.8300	77.3400	86.3537	18	0	9.0137	0.0000	460866.11	0.0000	0.0000	0.0000

E11504.1	80.5000	75.9200	82.3500	16	44	6.4300	0.0000	12.5660	0.0000	0.0000	0.0000
DI-31	82.6400	75.9600	83.3480	17	38	7.3880	0.0000	10149.824	0.0000	0.0000	0.0000
DI-28	83.1400	76.2800	82.6460	18	17	6.3660	0.4940	12.5660	0.0000	0.0000	0.0000
A102	80.5000	76.3800	82.5619	17	18	6.1819	0.0000	39304.179	0.0000	0.0000	0.0000
CNT-02	80.5000	76.1900	83.8816	17	30	7.6916	0.0000	147088.28	0.0000	0.0000	0.0000
CI-6	76.2000	74.8100	78.9919	17	8	4.1819	0.0000	12719.520	0.0000	0.0000	0.0000
CI-6A	77.5000	76.2100	78.9856	17	7	2.7756	0.0000	12719.520	0.0000	0.0000	0.0000
MH-6	77.1600	76.1500	78.9822	17	6	2.8322	0.0000	12.5660	0.0000	0.0000	0.0000
MH-8	77.1200	73.4200	78.7234	16	55	5.3034	0.0000	12.5660	0.0000	0.0000	0.0000
MH-7	76.7300	74.2100	78.9368	16	57	4.7268	0.0000	12.5660	0.0000	0.0000	0.0000
MH-4	78.0000	76.3300	79.2971	17	0	2.9671	0.0000	12.5660	0.0000	0.0000	0.0000
MH-5	77.0000	76.4100	79.0463	17	15	2.6363	0.0000	12.5660	0.0000	0.0000	0.0000
CI-5	76.4000	74.8100	79.0781	17	15	4.2681	0.0000	12719.520	0.0000	0.0000	0.0000
CI-5A	77.3700	76.5100	79.0471	17	15	2.5371	0.0000	12719.520	0.0000	0.0000	0.0000
CI-4A	76.5000	76.4100	79.3246	17	1	2.9146	0.0000	12719.520	0.0000	0.0000	0.0000
CI-4	77.8000	73.8000	79.5297	17	2	5.7297	0.0000	12719.520	0.0000	0.0000	0.0000
CI-3	79.7700	74.7400	82.3290	17	12	7.5890	0.0000	12719.520	0.0000	0.0000	0.0000
MHI-3	78.5300	74.8100	82.4202	17	4	7.6102	0.0000	12.5660	0.0000	0.0000	0.0000
MHI-1	77.5000	74.8100	80.1764	16	58	5.3664	0.0000	12.5660	0.0000	0.0000	0.0000
CI-1	77.2000	74.7500	80.1242	17	1	5.3742	0.0000	12719.520	0.0000	0.0000	0.0000
CI-2	76.4000	74.3800	79.9601	17	2	5.5801	0.0000	12719.520	0.0000	0.0000	0.0000
MH-2	76.8000	76.1800	79.9004	17	0	3.7204	0.0000	12.5660	0.0000	0.0000	0.0000
BNGL01	77.8300	72.0400	80.1371	16	59	8.0971	0.0000	50226.659	0.0000	0.0000	0.0000
CI-2A	77.5000	76.3100	79.9354	17	4	3.6254	0.0000	12719.520	0.0000	0.0000	0.0000
MH-9	76.2000	73.9400	78.5234	16	45	4.5834	0.0000	12.5660	0.0000	0.0000	0.0000
MH-11	75.2700	71.6800	77.1946	16	44	5.5146	0.0000	12.5660	0.0000	0.0000	0.0000
MH-10	77.8100	73.3300	77.9282	16	45	4.5982	0.0000	12.5660	0.0000	0.0000	0.0000
E11504.3	76.8100	71.4700	76.4900	16	44	5.0200	0.3200	12.5660	0.0000	0.0000	0.0000
POND-4B	80.0000	74.8040	82.3442	17	18	7.5402	0.0000	52122.501	0.0000	0.0000	0.0000

Table E10 - CONDUIT SUMMARY STATISTICS

Note: The peak flow may be less than the design flow and the conduit may still surcharge because of the downstream boundary conditions.

* denotes an open conduit that has been overtopped this is a potential source of severe errors

Conduit Name	Design Flow (cfs)	Conduit Design Velocity (ft/s)	Maximum Vertical Depth (in)	Maximum Computed Flow (cfs)	Time of Occurence Hr.	Time of Occurence Min.	Maximum Computed Velocity (ft/s)	Time of Occurence Hr.	Time of Occurence Min.	Ratio of Max. to Design Flow	Maximum Water Elev at Pipe Ends Upstream (ft)	Maximum Water Elev at Pipe Ends Dwnstrm (ft)	Ratio d/D US	Ratio d/D DS
L-CI-193	3.4695	1.9633	18.0000	11.4115	22	25	6.3515	22	25	3.2891	82.3998	82.3996	5.287	5.326
L-DI-21	25.5777	3.6185	36.0000	17.0622	22	24	2.3945	22	24	0.6671	82.3996	82.3994	3.163	3.213
L-CI-194	26.3062	3.7216	36.0000	17.5881	22	23	2.4678	22	23	0.6686	82.3994	82.3993	3.213	3.236
L-MHI-105	27.5855	3.9025	36.0000	-24.2339	16	30	-3.3850	16	30	-0.8785	82.3993	82.3979	3.236	3.323
L-MH-42	49.7595	3.9597	48.0000	27.8420	22	16	2.2017	22	16	0.5595	82.3979	82.3947	2.617	2.661
L-MH-43	52.9345	4.2124	48.0000	53.1186	22	16	4.1998	22	16	1.0035	82.3947	82.3893	2.661	2.687
L-MHI-110	55.6328	4.4271	48.0000	71.4502	21	37	5.6396	21	37	1.2843	82.3761	82.3530	2.752	2.873
L-MHI-107	69.1705	5.5044	48.0000	71.9955	21	37	5.6857	21	37	1.0408	82.3530	82.3207	2.873	2.985
L-MHI-108	180.9209	5.1692	60.0000	152.3579	20	23	4.3286	20	23	0.8421	82.3207	82.1456	2.388	2.445
E11504_2	201.4147	5.7547	60.0000	157.6198	20	23	4.4772	20	23	0.7826	82.1456	82.0000	2.445	2.496
L-DI-20	6.4920	2.0665	24.0000	8.8848	22	39	2.7898	22	39	1.3686	82.5147	82.4944	4.232	4.257
L-CI-196	6.3232	2.0127	24.0000	19.1940	22	30	6.0239	22	30	3.0355	82.4944	82.4304	4.257	4.325
L-CI-195	9.3285	1.9004	30.0000	20.9469	22	29	4.2340	22	29	2.2455	82.4304	82.4213	3.660	3.669
L-MHI-106	11.4871	2.3401	30.0000	32.8372	22	28	6.6222	22	28	2.8586	82.4213	82.3947	3.669	3.706
L-CI-197	3.3903	1.9185	18.0000	5.4667	21	38	3.0496	21	38	1.6125	82.3777	82.3761	4.412	4.444
L-DI-23	10.1170	3.2204	24.0000	13.3523	15	47	4.1800	15	47	1.3198	82.4693	82.3530	4.665	4.726
L-MHI-104	115.6123	5.7806	48.0000	107.7051	15	49	5.3479	15	49	0.9316	82.6956	82.3207	2.954	2.985
L-DI-19	4.6703	2.6028	18.0000	9.7022	15	38	5.3922	15	38	2.0774	82.4486	82.4304	5.266	5.367
L-DI-18	11.4716	3.6515	24.0000	-27.9576	15	18	-8.7945	15	17	-2.4371	82.8606	82.3979	4.265	4.214
L-CI-189	5.2419	1.6686	24.0000	14.5650	21	35	4.5760	21	35	2.7786	82.6423	82.6379	4.016	4.054
L-CI-190	7.0833	2.2547	24.0000	16.9561	21	31	5.3252	21	31	2.3938	82.6379	82.6359	4.054	4.078
L-MHI-99	11.0386	3.5137	24.0000	19.0324	21	28	5.9761	21	28	1.7242	82.6359	82.6460	4.078	4.183
L-MHI-100	24.2128	3.4254	36.0000	25.4469	20	57	3.5629	20	57	1.0510	82.6800	82.6956	3.197	3.315
L-CI-191	21.4131	1.7040	48.0000	-100.151	17	11	-7.8760	17	11	-4.6771	83.7452	83.5406	2.889	2.840
L-MHI-101	79.7719	5.0157	54.0000	99.0933	17	22	6.1658	17	22	1.2422	83.5406	83.3480	2.656	2.642
L-MHI-102	84.7314	5.3276	54.0000	86.5674	17	30	5.3873	17	30	1.0217	83.1373	82.6956	2.626	2.626
L-CI-188	3.6852	2.0854	18.0000	8.0390	20	40	4.4490	20	40	2.1814	82.6893	82.6872	5.080	5.131
L-MHI-98	10.1170	3.2204	24.0000	11.4983	16	2	3.6019	16	2	1.1365	82.6872	82.6800	4.099	4.295
L-DI-24	5.2679	2.9810	18.0000	21.3502	16	57	11.4899	16	57	4.0529	88.9119	82.6956	9.495	5.630
L-CI-182	3.3218	1.8797	18.0000	6.2967	15	39	3.5084	15	39	1.8956	83.6959	83.6007	5.317	5.320
L-CI-162	4.4566	2.5219	18.0000	6.8620	15	34	3.8341	15	34	1.5397	84.1317	83.7099	4.288	4.307
L-CI-163	33.4242	3.4740	42.0000	-35.6687	15	14	-3.6913	15	14	-1.0672	83.5250	83.4986	2.421	2.508
L-CI-164	37.5510	3.9030	42.0000	-37.1452	15	14	-3.8443	15	14	-0.9892	83.4986	83.4518	2.508	2.575
L-CI-165	49.2692	3.9207	48.0000	36.1680	16	0	2.8595	16	0	0.7341	83.4518	83.4449	2.378	2.391
L-MHI-88	59.7070	4.7513	48.0000	45.8395	15	58	3.6245	15	58	0.7677	83.4449	83.4020	2.391	2.463
L-MHI-89	75.5344	4.7209	48.0000	55.3929	15	52	3.4453	15	52	0.7333	83.4020	83.2973	2.463	2.564
L-MHI-90	87.7121	5.4820	48.0000	68.0203	15	46	4.2307	15	46	0.7755	83.2973	83.1346	2.564	2.639
L-MHI-92	115.4343	5.7717	48.0000	89.6037	21	10	4.4557	21	10	0.7762	83.1346	82.9711	2.639	2.778
L-MHI-94	61.0697	4.8598	48.0000	57.6561	21	36	4.5601	21	36	0.9441	83.1610	82.9711	2.633	2.778
L-MHI-96	26.6461	3.7696	36.0000	32.4018	21	57	4.5475	21	57	1.2160	83.2793	83.1610	3.100	3.274
L-CI-185	24.4716	3.4620	36.0000	30.5432	22	11	4.2910	22	11	1.2481	83.2944	83.2793	3.058	3.100
L-CI-186	17.4145	3.5477	30.0000	20.4831	22	14	4.1382	22	14	1.1762	83.5115	83.2944	3.389	3.470
L-MHI-97	9.8732	3.1427	24.0000	15.5424	22	16	4.8877	22	16	1.5742	83.6007	83.5115	4.240	4.236
L-CI-183	3.5363	2.0011	18.0000	8.7083	16	34	4.7986	16	27	2.4626	84.3882	83.6007	5.732	5.320
L-CI-171	3.3218	1.8797	18.0000	22.5612	16	28	12.3250	16	28	6.7919	86.6597	85.5553	7.040	6.337
L-MHI-91	5.5606	3.1466	18.0000	12.0881	17	42	6.6206	17	42	2.1739	85.5553	83.2973	6.337	5.172
L-CI-174	8.4645	2.6943	24.0000	20.8992	21	35	6.5783	21	35	2.4690	83.1352	83.1346	4.243	4.277
L-CI-175	36.1200	3.7542	42.0000	33.4009	21	4	3.4390	21	4	0.9247	84.0568	84.0561	3.253	3.336
L-CI-181	7.1538	2.2771	24.0000	11.5344	21	38	3.6273	21	38	1.6123	83.3134	83.2781	4.182	4.189
L-MHI-95	15.7983	3.2184	30.0000	15.2934	21	36	3.0854	21	36	0.9680	83.2781	83.1610	3.551	3.612
L-CI-168	7.6260	2.4274	24.0000	14.9077	15	44	4.6996	15	44	1.9549	83.7099	83.6827	3.480	3.491
L-MHI-87	10.8493	3.4534	24.0000	12.1453	15	17	3.8440	15	17	1.1195	83.6827	83.4020	3.491	3.926
L-CI-170	8.0829	2.5729	24.0000	12.6220	15	16	3.9864	15	16	1.5616	83.4102	83.4020	3.900	3.926
L-CI-175s	24.0142	3.3973	36.0000	-9.4811	16	24	-1.3203	16	24	-0.3948	84.0561	84.0561	3.752	3.892
L-MHI-93	69.0040	5.4912	48.0000	109.7293	20	13	8.6413	20	13	1.5902	83.8171	82.9711	2.884	2.778
L-CI-179	3.4472	1.9507	18.0000	10.0499	15	32	5.6109	15	32	2.9154	83.4440	83.1929	5.456	5.335
L-CI-166	4.0683	2.3022	18.0000	13.4858	21	35	7.5314	21	35	3.3148	83.2155	83.1518	4.417	4.675
Link252	4.9473	2.7996	18.0000	9.3972	15	15	5.2583	15	15	1.8995	85.2093	83.5250	5.086	4.370
L-CI-169	4.6977	2.6583	18.0000	-4.6848	16	30	-2.5938	16	30	-0.9973	83.4206	83.4102	4.607	4.867
Link255	4.6977	2.6583	18.0000	10.3980	21	32	5.8013	21	32	2.2134	83.3678	83.2973	5.152	5.172
Link256	4.0683	2.3022	18.0000	9.2902	21	47	5.1823	21	47	2.2835	83.1385	83.1352	5.226	5.323
CI175-93	64.2392	5.1120	48.0000	105.4538	19	54	8.2992	20	2	1.6416	84.0561	83.8171	2.919	2.884
NWC-175	63.6453	5.0647	48.0000	103.5138	16	7	8.1443	16	5	1.6264	86.3537	84.0561	3.253	2.919
L-JCT-177	194.6466	4.8662	60.0000	214.4661	20	40	5.3371	20	40	1.1018	82.9711	82.9273	2.222	2.223
L-CI-177	7.1538	2.2771	24.0000	16.4622	21	10	5.1838	21	10	2.3012	82.9359	82.9273	3.873	3.884
Link262	3.3218	1.8797	18.0000	-9.3186	16	21	-5.1546	16	20	-2.8053	83.3161	83.3134	5.177	5.242
L-MH96	7.9162	2.5198	24.0000	-55.6202	15	20	-17.4973	15	20	-7.0261	83.1929	83.1610	4.256	4.271
Link264	3.3218	1.8797	18.0000	13.5156	22	37	7.5516	22	37	4.0688	83.2678	83.2944	4.999	5.116
Link265	3.2677	1.8492	18.0000	13.0768	22	24	7.2733	22	24	4.0018	82.6638	82.6624	5.623	5.662
L-DI-22	3.0323	1.7160	18.0000	-6.2978	16	24	-3.4756	16	23	-2.0769	82.3773	82.3761	5.625	5.691
Link267	54.5816	4.3435	48.0000	53.1257	22	16	4.2003	22	16	0.9733	82.3893	82.3761	2.687	2.752
L-J-177	201.0461	5.0262	60.0000	218.1499	20	38	5.4286	20	38	1.0851	82.9273	82.5619	2.223	2.236
L-DI-31	79.8080	5.0180	54.0000	100.2599	17	22	6.2390	17	22	1.2563	83.3480	83.1373	2.642	2.626
L-DI-28	11.0248	3.5093	24.0000	18.6509	21	28	5.8631	21	28	1.6917	82.6460	82.6800	4.183	4.295
E11504_1	277.9986	6.9500	60.0000	220.8601	20	37	5.4962	20	37	0.7945	82.5619	82.3500	2.236	2.286
Link274	26.2256	2.0870	48.0000	101.3116	17	2	7.9663	17	2	3.8631	83.8816	83.7452	2.923	2.891
MH1-CI1	8.7616	2.7889	24.0000	16.2995	16	15	5.1207	16	15	1.8603	80.1764	80.1242	3.683	3.687
CI1-2	14.1250	2.8775	30.0000	11.3333	15	49	2.9133	0	2	0.8024	80.1242	79.9601	3.150	3.232
CI2-MH2	25.7492	3.6428	36.0000	24.7766	18	31	4.5705	0	2	0.9622	79.9601	79.9004	2.860	2.943
MH2-4	72.5113	4.5592	54.0000	103.0281	15	46	6.4393	15	46	1.4209	79.9004	79.2970	2.653	2.588
MH4-7	90.8275	4.6258	60.0000	139.7354	15	47	7.0798	15	47	1.5385	79.2971	78.9368	2.429	2.393
MH7-8	106.1922	4.4697	66.0000	157.3870	15	45	6.5970	15	45	1.4821	78.9368	78.7234	2.270	2.257
CI5-MH5	7.0756	2.2522	24.0000	15.5110	19	8	4.9038	19	8	2.1922	79.0781	79.0463	3.134	3.163

MH5-6	7.1200	2.2664	24.0000	15.2663	19	8	4.8320	19	8	2.1441	79.0463	78.9822	3.163	3.236
MH6-7	12.3908	3.9441	24.0000	23.1626	18	45	7.3124	18	45	1.8693	78.9822	78.9368	3.236	3.363
CI2A-MH2	4.6655	2.6401	18.0000	9.6522	18	25	5.4191	18	25	2.0689	79.9354	79.9004	3.417	3.480
CI5A-MH5	4.8660	2.7536	18.0000	-6.4940	16	35	4.2787	19	11	-1.3345	79.0471	79.0463	2.691	2.758
CI6-MH6	7.1538	2.2771	24.0000	10.7563	18	45	3.3952	18	45	1.5036	78.9919	78.9822	3.091	3.146
CI6A-MH6	4.6977	2.6583	18.0000	4.6797	16	0	3.2369	15	39	0.9962	78.9856	78.9822	2.850	2.888
MH3-CI3	9.0232	2.8722	24.0000	26.1915	16	15	8.1483	16	15	2.9027	82.4202	82.3290	4.805	4.795
CI3-4	11.3112	3.6005	24.0000	26.4322	15	37	8.2904	15	37	2.3368	82.3290	79.5297	4.795	3.865
CI4-MH4	26.9110	3.8071	36.0000	32.6984	15	37	4.7818	0	1	1.2151	79.5297	79.2970	2.910	2.926
CI4A-MH4	5.4244	3.0696	18.0000	11.1404	18	31	6.2761	18	31	2.0538	79.3246	79.2970	2.943	2.978
BNGL-2	51.0253	4.0605	48.0000	99.4873	15	55	7.8449	15	55	1.9498	80.1371	79.9004	3.024	2.985
Link277	7.3276	2.3325	24.0000	20.1347	19	6	6.3027	19	6	2.7478	82.3442	82.3290	4.770	4.795
Link278	9.1565	2.9146	24.0000	24.0588	21	37	7.5397	21	37	2.6275	82.6624	83.1373	4.246	4.674
947.1	106.1922	4.4697	66.0000	139.2875	15	45	5.8394	15	45	1.3117	78.7234	78.5234	2.257	2.253
24"rcp	22.3744	7.1220	24.0000	18.0635	15	44	6.8916	0	1	0.8073	78.7234	78.5234	3.652	3.792
948.1	106.1922	4.4697	66.0000	173.8370	15	50	7.2844	15	50	1.6370	78.5234	77.9282	2.253	2.207
948.2	28.2515	3.9968	36.0000	34.5015	15	50	5.2408	0	1	1.2212	78.5234	77.9282	2.528	2.533
952.1	106.1922	4.4697	66.0000	173.7682	15	50	7.6771	0	1	1.6364	77.9282	77.1945	2.207	2.150
952.2	41.8054	5.9143	36.0000	34.5167	15	50	6.1610	0	0	0.8257	77.9282	77.1945	2.533	2.838
953.1	106.1922	4.4697	66.0000	225.9929	16	0	9.6476	0	0	2.1282	77.1945	76.4900	2.150	2.060
953.2	21.0919	2.9839	36.0000	44.9930	16	0	6.3287	16	0	2.1332	77.1945	76.4900	2.838	2.673
FREE # 1	Undefnd	Undefnd	Undefn	157.6405	20	23								
FREE # 2	Undefnd	Undefnd	Undefn	220.8587	20	37								
FREE # 3	Undefnd	Undefnd	Undefn	270.9865	16	0								

Table E15 - SPREADSHEET INFO LIST
Conduit Flow and Junction Depth Information for use in spreadsheets. The maximum values in this table are the true maximum values because they sample every time step. The values in the review results may only be the maximum of a subset of all the time steps in the run. Note: These flows are only the flows in a single barrel.

Conduit Name	Maximum Flow (cfs)	Total Flow (ft^3)	Maximum Velocity (ft/s)	Maximum Volume (ft^3)	##	Junction Name	Invert Elevation (ft)	Maximum Elevation (ft)
L-CI-193	11.4115	-370.4807	6.3515	101.8886	##	MHI-106	73.2500	82.4213
L-DI-21	17.0622	-860.8818	2.3945	755.8367	##	CI-196	73.9800	82.4944
L-CI-194	17.5881	40132.0747	2.4678	333.4570	##	DI-20	74.0500	82.5147
L-MHI-105	-24.2339	56346.2969	-3.3850	1126.3423	##	DI-19	74.5500	82.4486
L-MH-42	27.8420	280451.4356	2.2017	1976.0438	##	MHI-110	71.3700	82.3761
L-MH-43	53.1186	546945.0861	4.1998	1067.0636	##	MH-43	71.7500	82.3947
L-MHI-110	71.4502	646390.6374	5.6396	4479.0306	##	MHI-107	70.8600	82.3530
L-MHI-107	71.9955	937650.1687	5.6857	2726.9402	##	MHI-108	70.3800	82.3207
L-MHI-108	152.3579	3341840.441	4.3286	13114.0773	##	MHI-109	69.9200	82.1456
E11504_2	157.6198	3386874.255	4.4772	9203.3298	##	MHI-104	70.8800	82.6956
L-DI-20	8.8848	123689.6556	2.7898	279.9395	##	E11504.2	69.5200	82.0000
L-CI-196	19.1940	133593.1728	6.0239	843.1112	##	MH-42	71.9300	82.3979
L-CI-195	20.9469	237585.2810	4.2340	298.4639	##	MHI-105	72.6900	82.3993
L-MHI-106	32.8372	265432.7509	6.6222	787.3287	##	CI-194	72.7600	82.3994
L-CI-197	5.4667	37793.6528	3.0496	88.9215	##	DI-18	74.3300	82.8606
L-DI-23	13.3523	154596.1139	4.1800	395.2077	##	CI-193	74.4700	82.3998
L-MHI-104	107.7051	2397229.899	5.3479	4544.6663	##	DI-21	72.9100	82.3996
L-DI-19	9.7022	91431.7184	5.3922	159.3181	##	CI-195	73.2800	82.4304
L-DI-18	-27.9576	223515.2657	-8.7945	459.7230	##	CI-197	75.7600	82.3777
L-CI-189	14.5650	16306.9527	4.5760	490.7176	##	DI-22	73.9400	82.3773
L-CI-190	16.9561	30454.4552	5.3252	167.9636	##	DI-23	73.1400	82.4693
L-MHI-99	19.0324	51601.8934	5.9761	276.6460	##	CI-189	74.6100	82.6423
L-MHI-100	25.4469	185734.0334	3.5629	1911.8203	##	CI-190	74.5300	82.6379
L-CI-191	-100.1512	-1672525.89	-7.8760	592.8122	##	MHI-99	74.4800	82.6359
L-MHI-101	99.0933	1682156.491	6.1658	1317.1566	##	MHI-98	74.4900	82.6872
L-MHI-102	86.5674	1798415.859	5.3873	3951.4681	##	CI-188	75.0700	82.6893
L-CI-188	8.0390	43487.8636	4.4490	120.4151	##	MHI-100	73.0900	82.6800
L-MHI-98	11.4983	110728.3851	3.6019	654.6292	##	MHI-102	71.3200	83.1373
L-DI-24	21.3502	294460.2000	11.4899	303.8127	##	MHI-101	71.5900	83.5406
L-CI-182	6.2967	83769.7647	3.5084	185.2535	##	CI-191	72.1800	83.7452
L-CI-162	6.8620	75253.0769	3.8341	451.9051	##	MHI-103	74.1700	82.6624
L-CI-163	-35.6687	135016.6073	-3.6913	3015.7309	##	CI-192	74.2300	82.6638
L-CI-164	-37.1452	250853.9757	-3.8443	2027.2960	##	DI-24	74.6700	88.9119
L-CI-165	36.1680	450548.6921	2.8595	671.8541	##	DI-34	71.6400	82.3893
L-MHI-88	45.8395	562681.3167	3.6245	2516.1617	##	CI-161A	77.5800	85.2093
L-MHI-89	55.3929	849355.8314	3.4453	4821.4186	##	CI-167	77.7000	84.1317
L-MHI-90	68.0203	1216994.316	4.2307	3226.2184	##	CI-184	75.7900	84.3882
L-MHI-92	89.6037	1291308.598	4.4557	6557.7778	##	CI-183	75.1200	83.6007
L-MHI-94	57.6561	920914.2351	4.5601	5583.4452	##	CI-182	75.7200	83.6959
L-MHI-96	32.4018	448919.4393	4.5475	2947.6180	##	MHI-97	75.0400	83.5115
L-CI-185	30.5432	310431.8776	4.2910	770.6571	##	CI-187	75.7700	83.2678
L-CI-186	20.4831	308722.7279	4.1382	1196.9140	##	CI-186	74.1200	83.2944
L-MHI-97	15.5424	232718.1065	4.8877	138.3231	##	CI-185	73.9800	83.2793
L-CI-183	8.7083	148299.4523	4.7986	277.8803	##	CI-179	74.6800	83.1929

L-CI-171	22.5612	231514.2482	12.3250	92.6270	##	CI-178	75.2600	83.4440
L-MHI-91	12.0881	230547.5456	6.6206	330.1617	##	MHI-96	72.6300	83.1610
L-CI-174	20.8992	13712.1648	6.5783	164.6701	##	MHI-95	74.4000	83.2781
L-CI-175	33.4009	10544.0655	3.4390	2269.3626	##	CI-180	75.5500	83.3161
L-CI-181	11.5344	145631.2769	3.6273	164.6703	##	CI-181	74.9500	83.3134
L-MHI-95	15.2934	263865.0798	3.0854	936.5578	##	CI-176	72.6700	84.0568
L-CI-168	14.9077	135983.6812	4.6996	144.9099	##	CI-175	71.6300	84.0561
L-MHI-87	12.1453	135831.1410	3.8440	1600.0560	##	CI-175S	72.8000	84.0561
L-CI-170	12.6220	65853.0006	3.9864	154.7901	##	MHI-93	72.2800	83.8171
L-CI-175s	-9.4811	372.0014	-1.3203	2400.8893	##	MHI-94	71.8600	82.9711
L-MHI-93	109.7293	2356362.636	8.6413	2397.5982	##	CI-177	75.1900	82.9359
L-CI-179	10.0499	114914.0831	5.6109	120.4140	##	JCT-177	71.8100	82.9273
L-CI-166	13.4858	11017.1069	7.5314	185.2540	##	MHI-92	72.5800	83.1346
Link252	9.3972	114666.4288	5.2583	496.3910	##	CI-173	75.3000	83.1385
L-CI-169	-4.6848	14180.6610	-2.5938	363.9974	##	CI-174	74.6500	83.1352
Link255	10.3980	84401.0790	5.8013	92.6263	##	MHI-89	73.5500	83.4020
Link256	9.2902	13668.9954	5.1823	185.2536	##	MHI-90	73.0400	83.2973
CI175-93	105.4538	2356375.929	8.2992	658.6806	##	CI-172	75.6400	83.3678
NWC-175	103.5138	2323425.725	8.1443	6401.4438	##	MHI-91	76.0500	85.5553
L-JCT-177	214.4661	4573617.178	5.3371	1977.8729	##	CI-171	76.1000	86.6597
L-CI-177	16.4622	91558.3806	5.1838	98.8022	##	CI-170	75.6100	83.4102
Link262	-9.3186	-188.5488	-5.1546	185.2531	##	CI-169	76.5100	83.4206
L-MH96	-55.6202	114631.3163	-17.4973	161.3759	##	MHI-88	73.8800	83.4449
Link264	13.5156	-644.9463	7.5516	277.8795	##	CI-166	76.5900	83.2155
Link265	13.0768	18875.0753	7.2733	114.8574	##	CI-165	73.9400	83.4518
L-DI-22	-6.2978	11353.0194	-3.4756	222.3038	##	CI-164	74.7200	83.4986
Link267	53.1257	594426.8102	4.2003	2463.4675	##	CI-168	76.7500	83.7099
L-J-177	218.1499	4667282.849	5.4286	15897.6739	##	MHI-87	76.7000	83.6827
L-DI-31	100.2599	1737871.112	6.2390	1417.1940	##	CI-163	75.0500	83.5250
L-DI-28	18.6509	73818.6968	5.8631	263.4707	##	CNT-01	72.5900	86.3537
E11504_1	220.8601	4805804.557	5.4962	8896.8412	##	E11504.1	70.9200	82.3500
Link274	101.3116	1657771.131	7.9663	395.2081	##	DI-31	71.4600	83.3480
MH1-CI1	16.2995	88005.1613	5.1207	131.7356	##	DI-28	74.2800	82.6460
CI1-2	11.3333	107057.9771	2.9133	1605.4474	##	A102	71.3800	82.5619
CI2-MH2	24.7766	134845.6122	4.5705	1541.3086	##	CNT-02	72.1900	83.8816
MH2-4	103.0281	1321476.473	6.4393	3801.4010	##	CI-6	72.8100	78.9919
MH4-7	139.7354	1782572.162	7.0798	3046.3976	##	CI-6A	74.7100	78.9856
MH7-8	157.3870	1930061.562	6.5970	3486.8940	##	MH-6	72.5100	78.9822
CI5-MH5	15.5110	88520.3676	4.9038	302.9917	##	MH-8	66.3100	78.7234
MH5-6	15.2663	88851.0189	4.8320	698.2008	##	MH-7	66.4500	78.9368
MH6-7	23.1626	143650.0338	7.3124	329.2938	##	MH-4	67.1500	79.2971
CI2A-MH2	9.6522	41847.8680	5.4191	122.0825	##	MH-5	72.7200	79.0463
CI5A-MH5	-6.4940	-24.1416	4.2787	86.3251	##	CI-5	72.8100	79.0781
CI6-MH6	10.7563	34627.5162	3.3952	395.2054	##	CI-5A	75.0100	79.0471
CI6A-MH6	4.6797	19597.8536	3.2369	55.5690	##	CI-4A	74.9100	79.3246
MH3-CI3	26.1915	154994.0301	8.1483	144.9097	##	CI-4	70.8000	79.5297
CI3-4	26.4322	345883.1626	8.2904	1223.6131	##	CI-3	72.7400	82.3290
CI4-MH4	32.6984	414530.9029	4.7818	1274.5473	##	MHI-3	72.8100	82.4202
CI4A-MH4	11.1404	42131.6972	6.2761	55.5623	##	MHI-1	72.8100	80.1764
BNGL-2	99.4873	1141660.783	7.8449	835.2061	##	CI-1	72.2500	80.1242
Link277	20.1347	76477.8557	6.3027	200.8976	##	CI-2	71.3800	79.9601
Link278	24.0588	11716.2314	7.5397	655.5389	##	MH-2	67.9600	79.9004
947.1	139.2875	1730571.877	5.8394	4483.1487	##	BNGL01	68.0400	80.1371
24"rcp	18.0635	204148.2993	6.8916	160.4576	##	CI-2A	74.8100	79.9354
948.1	173.8370	2041043.757	7.2844	8468.1671	##	MH-9	66.1300	78.5234
948.2	34.5015	352860.3488	5.2408	2512.6147	##	MH-11	65.3700	77.1946
952.1	173.7682	2046318.367	7.6771	10460.6824	##	MH-10	65.7900	77.9282
952.2	34.5167	362446.3249	6.1610	3011.1622	##	E11504.3	65.1600	76.4900
953.1	225.9929	2452158.811	9.6476	5230.3407	##	POND-4B	72.8040	82.3442
953.2	44.9930	457395.0396	6.3287	1556.1346	##			
FREE # 1	157.6405	3386962.533	0.0000	0.0000	##			
FREE # 2	220.8587	4805831.313	0.0000	0.0000	##			
FREE # 3	270.9865	2909929.541	0.0000	0.0000	##			

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Table E15a - SPREADSHEET REACH LIST

Peak flow and Total Flow listed by Reach or those conduits or diversions having the same upstream and downstream nodes.

Upstream Node	Downstream Node	Maximum Flow (cfs)	Total Flow (ft^3)
CI-193	DI-21	11.4115	-370.4807
DI-21	CI-194	17.0622	-860.8818
CI-194	MHI-105	17.5881	40132.0747
MHI-105	MH-42	-24.2339	56346.2969
MH-42	MH-43	27.8420	280451.436
MH-43	DI-34	53.1186	546945.086
MHI-110	MHI-107	71.4502	646390.637
MHI-107	MHI-108	71.9955	937650.169
MHI-108	MHI-109	152.3579	3341840.44
MHI-109	E11504.2	157.6198	3386874.25
DI-20	CI-196	8.8848	123689.656
CI-196	CI-195	19.1940	133593.173
CI-195	MHI-106	20.9469	237585.281
MHI-106	MH-43	32.8372	265432.751
CI-197	MHI-110	5.4667	37793.6528
DI-23	MHI-107	13.3523	154596.114
MHI-104	MHI-108	107.7051	2397229.90
DI-19	CI-195	9.7022	91431.7184
DI-18	MH-42	-27.9576	223515.266
CI-189	CI-190	14.5650	16306.9527
CI-190	MHI-99	16.9561	30454.4552
MHI-99	DI-28	19.0324	51601.8934
MHI-100	MHI-104	25.4469	185734.033
MHI-101	CI-191	100.1512	1672525.89
MHI-101	DI-31	99.0933	1682156.49
MHI-102	MHI-104	86.5674	1798415.86
CI-188	MHI-98	8.0390	43487.8636
MHI-98	MHI-100	11.4983	110728.385
DI-24	MHI-104	21.3502	294460.200
CI-182	CI-183	6.2967	83769.7647
CI-167	CI-168	6.8620	75253.0769
CI-163	CI-164	-35.6687	135016.607
CI-164	CI-165	-37.1452	250853.976
CI-165	MHI-88	36.1680	450548.692
MHI-88	MHI-89	45.8395	562681.317
MHI-89	MHI-90	55.3929	849355.831
MHI-90	MHI-92	68.0203	1216994.32
MHI-92	MHI-94	89.6037	1291308.60
MHI-96	MHI-94	57.6561	920914.235
CI-185	MHI-96	32.4018	448919.439
CI-186	CI-185	30.5432	310431.878
MHI-97	CI-186	20.4831	308722.728
CI-183	MHI-97	15.5424	232718.107
CI-184	CI-183	8.7083	148299.452
CI-171	MHI-91	22.5612	231514.248
MHI-91	MHI-90	12.0881	230547.546
CI-174	MHI-92	20.8992	13712.1648
CI-176	CI-175	33.4009	10544.0655
CI-181	MHI-95	11.5344	145631.277
MHI-95	MHI-96	15.2934	263865.080
CI-168	MHI-87	14.9077	135983.681
MHI-87	MHI-89	12.1453	135831.141
CI-170	MHI-89	12.6220	65853.0006
CI-175S	CI-175	-9.4811	372.0014
MHI-93	MHI-94	109.7293	2356362.64
CI-178	CI-179	10.0499	114914.083
CI-166	CI-165	13.4858	11017.1069
CI-161A	CI-163	9.3972	114666.429
CI-169	CI-170	-4.6848	14180.6610

CI-172	MHI-90	10.3980	84401.0790
CI-173	CI-174	9.2902	13668.9954
CI-175	MHI-93	105.4538	2356375.93
CNT-01	CI-175	103.5138	2323425.72
MHI-94	JCT-177	214.4661	4573617.18
CI-177	JCT-177	16.4622	91558.3806
CI-180	CI-181	-9.3186	-188.5488
CI-179	MHI-96	-55.6202	114631.316
CI-187	CI-186	13.5156	-644.9463
CI-192	MHI-103	13.0768	18875.0753
DI-22	MHI-110	-6.2978	11353.0194
DI-34	MHI-110	53.1257	594426.810
JCT-177	A102	218.1499	4667282.85
DI-31	MHI-102	100.2599	1737871.11
DI-28	MHI-100	18.6509	73818.6968
A102	E11504.1	220.8601	4805804.56
CNT-02	CI-191	101.3116	1657771.13
MHI-1	CI-1	16.2995	88005.1613
CI-1	CI-2	11.3333	107057.977
CI-2	MH-2	24.7766	134845.612
MH-2	MH-4	103.0281	1321476.47
MH-4	MH-7	139.7354	1782572.16
MH-7	MH-8	157.3870	1930061.56
CI-5	MH-5	15.5110	88520.3676
MH-5	MH-6	15.2663	88851.0189
MH-6	MH-7	23.1626	143650.034
CI-2A	MH-2	9.6522	41847.8680
CI-5A	MH-5	-6.4940	-24.1416
CI-6	MH-6	10.7563	34627.5162
CI-6A	MH-6	4.6797	19597.8536
MHI-3	CI-3	26.1915	154994.030
CI-3	CI-4	26.4322	345883.163
CI-4	MH-4	32.6984	414530.903
CI-4A	MH-4	11.1404	42131.6972
BNGL01	MH-2	99.4873	1141660.78
POND-4B	CI-3	20.1347	76477.8557
MHI-103	MHI-102	24.0588	11716.2314
MH-8	MH-9	157.3272	1934720.18
MH-9	MH-10	208.3376	2393904.11
MH-10	MH-11	208.2835	2408764.69
MH-11	E11504.3	270.9839	2909553.85

Table E19 - Junction Inflow & Outflow Listing
Units are either ft^3 or m^3 depending on the units in your model.

Junction Name	Constant Inflow to Node	User Inflow to Node	Interface Inflow to Node	DWF Inlow to Node	Inflow through Outfall	RNF Layer Inflow to Node	Outflow from Node	Evaporation from Node	Inflow from 2D Layer
MHI-106	0.0000	24624.2000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
CI-196	0.0000	9495.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
DI-20	0.0000	122635.8000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
DI-19	0.0000	91390.6000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
MHI-107	0.0000	133375.6000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
MHI-109	0.0000	38448.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
MHI-104	0.0000	115236.2000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
E11504.2	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	3.3870E+06	0.0000	
MHI-105	0.0000	16024.6000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
CI-194	0.0000	40680.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
DI-18	0.0000	223186.8000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
CI-195	0.0000	10863.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
CI-197	0.0000	37827.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
DI-22	0.0000	11506.6000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
DI-23	0.0000	153666.6000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
CI-189	0.0000	16551.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
CI-190	0.0000	16290.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	

MHI-99	0.0000	22194.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
MHI-98	0.0000	67041.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CI-188	0.0000	42687.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
MHI-102	0.0000	49176.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
MHI-101	0.0000	11704.6000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CI-191	0.0000	17073.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CI-192	0.0000	19575.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
DI-24	0.0000	291199.6000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
DI-34	0.0000	42750.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CI-161A	0.0000	116046.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CI-167	0.0000	75744.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CI-184	0.0000	148806.2000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CI-182	0.0000	83583.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
MHI-97	0.0000	71802.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CI-185	0.0000	134397.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CI-178	0.0000	115335.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
MHI-96	0.0000	90108.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
MHI-95	0.0000	116262.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CI-181	0.0000	144909.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CI-176	0.0000	11286.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CI-175	0.0000	21762.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CI-177	0.0000	91404.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
MHI-92	0.0000	57906.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CI-173	0.0000	13824.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
MHI-89	0.0000	82269.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
MHI-90	0.0000	50922.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CI-172	0.0000	83997.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CI-171	0.0000	230692.6000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CI-170	0.0000	50787.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CI-169	0.0000	14004.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
MHI-88	0.0000	111411.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CI-166	0.0000	11700.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CI-165	0.0000	188757.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CI-164	0.0000	115344.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CI-168	0.0000	60804.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CI-163	0.0000	19926.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CNT-01	0.0000	2.3277E+06	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
E11504.1	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	4.8058E+06	0.0000
DI-31	0.0000	50085.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
DI-28	0.0000	22203.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
A102	0.0000	131859.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CNT-02	0.0000	1.6642E+06	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CI-6	0.0000	34137.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CI-6A	0.0000	19377.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CI-5	0.0000	87957.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CI-4A	0.0000	41301.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CI-4	0.0000	66141.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CI-3	0.0000	115011.6000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
MHI-3	0.0000	154935.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
MHI-1	0.0000	87966.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CI-1	0.0000	17811.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CI-2	0.0000	22491.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
BNGL01	0.0000	1.1435E+06	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CI-2A	0.0000	40941.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
MH-9	0.0000	450337.8000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
MH-11	0.0000	488335.6000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
E11504.3	0.0000	0.0000	0.0000	0.0000	22176.6968	0.0000	2.9321E+06	0.0000
POND-4B	0.0000	74971.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Table E20 - Junction Flooding and Volume Listing. The maximum volume is the total volume in the node including the volume in the flooded storage area. This is the max volume at any time. The volume in the flooded storage area is the total volume above the ground elevation, where the flooded pond storage area starts. The fourth column is instantaneous, the fifth is the sum of the flooded volume over the entire simulation

| Units are either ft^3 or m^3 depending on the units.|

Junction Name	Surcharged Time (min)	Flooded Time(min)	Out of 1D-System (Flooded Volume)	Maximum Volume	Passed to 2D cell OR Volume Stored in allowed Flood Pond of 1D-System
MHI-106	609.6065	413.2111	0.0000	78238.5426	81971.5844
CI-196	595.6303	468.0859	0.0000	41709.7442	44743.4620
DI-20	591.6220	452.4810	0.0000	34343.9399	37329.0518
DI-19	592.0917	410.1556	0.0000	22060.0050	24303.9017
MHI-110	521.5833	411.5000	0.0000	104560.5726	111211.3058
MH-43	609.6435	331.9832	0.0000	19748.8007	21202.0148
MHI-107	670.6190	348.3274	0.0000	47699.7601	48928.7730
MHI-108	634.3333	329.0903	0.0000	46033.9753	47036.7094
MHI-109	668.9643	256.0769	0.0000	14339.2090	14482.5130
MHI-104	609.8519	319.5486	0.0000	45781.6128	49216.1348
E11504.2	1072.1667	0.0000	0.0000	156.8237	22.4059
MH-42	596.5583	0.0000	0.0000	131.5401	0.0000
MHI-105	613.4954	403.6889	0.0000	68694.2871	70998.0678
CI-194	609.1759	406.4889	0.0000	29208.2023	30069.5354
DI-18	570.7244	0.0000	0.0000	58002.9550	0.0000
CI-193	596.3917	414.0304	0.0000	31732.3754	35012.6875
DI-21	600.1000	412.2422	0.0000	31876.8382	34717.5851
CI-195	601.9000	413.6444	0.0000	29469.2679	30272.9860
CI-197	517.2282	383.2178	0.0000	25590.6988	28005.1969
DI-22	629.8148	401.4644	0.0000	30182.5190	33439.7653
DI-23	651.9048	351.7224	0.0000	23738.6691	26039.6121
CI-189	562.1574	348.4188	0.0000	29950.5751	34078.7258
CI-190	566.4083	356.7834	0.0000	40558.6547	44403.0778
MHI-99	569.0250	343.3333	0.0000	30427.7885	32972.9898
MHI-98	568.6000	275.0060	0.0000	9196.6686	9871.4216
CI-188	564.4037	355.5127	0.0000	46935.5572	51351.0268
MHI-100	589.7583	323.7222	0.0000	34325.3009	35370.0753
MHI-102	605.8519	362.7314	0.0000	38018.3879	43268.0699
MHI-101	584.7083	366.8877	0.0000	45215.5670	52510.2641
CI-191	585.2824	373.3834	0.0000	46333.6232	51042.2092
MHI-103	585.3167	419.0571	0.0000	125622.6035	136963.1320
CI-192	611.3611	435.7505	0.0000	40176.3774	44652.0857
DI-24	585.8194	376.5519	0.0000	58957.9106	121340.7435
DI-34	616.4861	181.4926	0.0000	1808.9120	2303.5626
CI-161A	416.7665	291.2297	0.0000	30833.9511	36391.6038
CI-167	407.4704	322.5567	0.0000	17506.2964	20554.3666
CI-184	547.2528	438.0959	0.0000	44555.5613	50902.1441
CI-183	556.8056	443.9675	0.0000	45728.7265	48821.8427
CI-182	550.9630	407.6417	0.0000	31430.1375	35874.1533
MHI-97	530.7926	437.5436	0.0000	43968.7483	45216.7743
CI-187	548.2704	0.0000	0.0000	15806.0003	0.0000
CI-186	557.0556	408.5000	0.0000	34094.5332	34443.5228
CI-185	564.5556	402.6298	0.0000	33904.1545	34152.2224
CI-179	573.1058	0.0000	0.0000	55713.4414	0.0000
CI-178	569.6090	383.1514	0.0000	37380.7995	42149.4282
MHI-96	583.0395	357.1705	0.0000	25705.3020	26092.2993
MHI-95	568.5694	403.5442	0.0000	41302.6716	43776.2889
CI-180	561.1111	411.5107	0.0000	40832.5938	45584.7260
CI-181	566.1389	388.6234	0.0000	35722.7940	37966.7782
CI-176	611.3674	353.4603	0.0000	40886.7758	45660.1424
CI-175	598.4306	326.6561	0.0000	32504.6785	34674.1363
CI-175S	636.1905	300.3529	0.0000	21815.9567	23910.7485
MHI-93	604.3452	347.0972	0.0000	37836.7889	43376.0082
MHI-94	570.8377	352.0162	0.0000	28499.6961	30007.6604
CI-177	553.6389	380.5779	0.0000	36510.3195	38824.8397
JCT-177	555.4815	323.0091	0.0000	139.6994	141.7709
MHI-92	585.6944	401.4379	0.0000	44223.5936	46808.1010
CI-173	573.8472	398.1455	0.0000	39847.5694	44182.1994
CI-174	581.7588	400.3609	0.0000	41084.2735	44983.1105
MHI-89	530.4259	360.0119	0.0000	30239.5112	31615.0574

MHI-90	561.6111	380.9568	0.0000	40087.9122	43138.9935
CI-172	556.2222	369.4000	0.0000	35644.3211	38893.0989
MHI-91	530.5529	366.0195	0.0000	50315.9560	56866.8823
CI-171	526.7646	370.3537	0.0000	59211.7143	65322.0095
CI-170	525.7870	371.1992	0.0000	36437.6906	37644.7428
CI-169	493.4694	342.2889	0.0000	23724.8733	26338.5801
MHI-88	503.4796	363.9006	0.0000	30983.6367	34001.5335
CI-166	486.4701	379.9948	0.0000	70611.9441	79786.6045
CI-165	498.2361	362.0430	0.0000	31142.4845	32547.5554
CI-164	477.1620	340.9287	0.0000	24104.5316	25582.4767
CI-168	440.0519	324.3167	0.0000	17617.4959	19464.4326
MHI-87	442.5917	372.5255	0.0000	35787.7973	39807.4407
CI-163	451.6212	299.9739	0.0000	15413.9466	17107.0470
CNT-01	546.2037	339.1760	0.0000	455982.2227	534581.8708
E11504.1	786.4762	0.0000	0.0000	143.6294	33.5592
DI-31	597.4722	172.9977	0.0000	5290.3124	6437.5953
DI-28	579.6333	0.0000	0.0000	105.1274	0.0000
A102	597.4306	310.5899	0.0000	34418.7806	38112.7874
CNT-02	584.7407	331.7444	0.0000	142192.7068	165714.4300
CI-6	250.8778	204.3750	0.0000	29069.4607	31614.7470
CI-6A	203.2083	153.0392	0.0000	12446.1835	13365.5810
MH-6	203.8750	166.0392	0.0000	81.3301	33.2670
MH-8	308.6803	141.2157	0.0000	155.9867	32.1388
MH-7	275.5730	163.3137	0.0000	156.9090	44.6641
MH-4	183.3713	119.2222	0.0000	152.6397	25.0925
MH-5	207.8125	192.2169	0.0000	79.4965	31.0692
CI-5	252.2395	210.2292	0.0000	27624.3813	30497.1994
CI-5A	206.2708	173.8995	0.0000	14876.6640	16360.9453
CI-4A	179.8100	176.8799	0.0000	13759.0053	32153.3691
CI-4	296.1186	141.5098	0.0000	15603.5224	17274.0938
CI-3	271.6348	209.5903	0.0000	26152.6376	27854.2709
MHI-3	268.6696	212.8569	0.0000	120.7623	58.6693
MHI-1	252.9984	163.6687	0.0000	92.5662	39.0466
CI-1	255.9619	171.6759	0.0000	30771.2003	32306.8130
CI-2	271.5222	186.7327	0.0000	38861.1606	39472.9609
MH-2	198.6639	175.8591	0.0000	150.0437	73.1151
BNGL01	374.5263	149.3725	0.0000	45349.6799	52939.0110
CI-2A	192.5898	161.4118	0.0000	24525.4640	26715.9139
MH-9	285.0372	171.7647	0.0000	155.7353	85.6677
MH-11	377.2535	201.5556	0.0000	148.5874	89.9297
MH-10	307.4778	39.6238	0.0000	152.5291	4.6208
E11504.3	384.1030	0.0000	0.0000	142.3728	0.0000
POND-4B	268.9570	208.6625	0.0000	47212.9264	51311.2284

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*==================================*
| Simulation Specific Information  |
*==================================*
Number of Input Conduits.........       104 Number of Simulated Conduits......       107
Number of Natural Channels.......         0 Number of Junctions..............       103
Number of Storage Junctions.....         64 Number of Weirs..................         0
Number of Orifices..............         0 Number of Pumps...................         0
Number of Free Outfalls..........         3 Number of Tide Gate Outfalls......         0


*=========================================================*
| Average % Change in Junction or Conduit is defined as:  |
| Conduit  % Change ==> 100.0 ( Q(n+1) - Q(n) ) / Qfull   |
| Junction % Change ==> 100.0 ( Y(n+1) - Y(n) ) / Yfull   |
*=========================================================*

The Conduit with the largest average change was..L-JCT-177  with     0.014 percent
The Junction with the largest average change was.DI-31      with     0.093 percent
The Conduit with the largest sinuosity was.......L-CI-166   with    39.422


*====================================================================*
| Table E21. Continuity balance at the end of the simulation         |
|            Junction Inflow, Outflow or Street Flooding             |
| Error = Inflow  + Initial Volume - Outflow - Final   Volume        |
*====================================================================*

       Inflow          Inflow       Average
       Junction   Volume,ft^3   Inflow, cfs
---------------  ------------  -------------
        MHI-106    24625.9205         0.1425

         CI-196     9495.1694         0.0549

          DI-20   122639.9403         0.7097

          DI-19    91393.2808         0.5289

        MHI-107   133377.3454         0.7719

        MHI-109    38448.7085         0.2225
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MHI-104	115238.3567	0.6669
MHI-105	16025.7697	0.0927
CI-194	40680.6792	0.2354
DI-18	223192.1982	1.2916
CI-195	10863.2213	0.0629
CI-197	37827.8022	0.2189
DI-22	11507.3926	0.0666
DI-23	153671.5085	0.8893
CI-189	16551.3702	0.0958
CI-190	16290.3692	0.0943
MHI-99	22194.3901	0.1284
MHI-98	67042.3645	0.3880
CI-188	42687.8645	0.2470
MHI-102	49176.9628	0.2846
MHI-101	11705.4097	0.0677
CI-191	17073.3711	0.0988
CI-192	19575.3968	0.1133
DI-24	291205.0383	1.6852
DI-34	42750.5920	0.2474
CI-161A	116047.8787	0.6716
CI-167	75745.4526	0.4383
CI-184	148809.7590	0.8612
CI-182	83584.2781	0.4837
MHI-97	71803.4132	0.4155
CI-185	134399.5916	0.7778
CI-178	115337.2223	0.6675
MHI-96	90109.9881	0.5215
MHI-95	116264.3610	0.6728
CI-181	144911.6639	0.8386
CI-176	11286.2520	0.0653
CI-175	21762.4436	0.1259
CI-177	91405.7508	0.5290
MHI-92	57907.1689	0.3351
CI-173	13824.1971	0.0800
MHI-89	82269.9446	0.4761
MHI-90	50923.0205	0.2947
CI-172	83998.6110	0.4861
CI-171	230696.8594	1.3351
CI-170	50787.9749	0.2939
CI-169	14004.3097	0.0810
MHI-88	111413.0601	0.6448
CI-166	11700.2631	0.0677
CI-165	188760.6055	1.0924
CI-164	115346.1908	0.6675
CI-168	60805.1888	0.3519
CI-163	19926.5652	0.1153
CNT-01	2.32769E+06	13.4705
DI-31	50086.0153	0.2898
DI-28	22203.4497	0.1285
A102	131861.4831	0.7631
CNT-02	1.66424E+06	9.6310
CI-6	34137.7425	0.1976
CI-6A	19377.3928	0.1121
CI-5	87958.9381	0.5090
CI-4A	41301.6570	0.2390
CI-4	66142.1626	0.3828
CI-3	115014.4408	0.6656
MHI-3	154937.7228	0.8966
MHI-1	87967.0909	0.5091
CI-1	17811.2892	0.1031
CI-2	22491.3488	0.1302
BNGL01	1.14357E+06	6.6179
CI-2A	40941.7849	0.2369
MH-9	450344.2590	2.6062

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          MH-11   488340.9326         2.8260

       E11504.3    22176.6968         0.1283

        POND-4B    74973.8286         0.4339

       E11504.2    -3.387E+06       -19.6005

       E11504.1    -4.806E+06       -27.8115

       E11504.3    -2.932E+06       -16.9682


       Outflow      Outflow          Average
       Junction  Volume,ft^3    Outflow, cfs
---------------  ------------   ------------
       E11504.2   3.38696E+06        19.6005

       E11504.1   4.80583E+06        27.8115

       E11504.3   2.93211E+06        16.9682


*==================================================*

| Initial system volume        =    115722.6981 Cu Ft |

| Total system inflow volume   =  11.002471E+06 Cu Ft |

| Inflow + Initial volume      =  11.118194E+06 Cu Ft |

*==================================================*

| Total system outflow         =  11.124900E+06 Cu Ft |

| Volume left in system        =     37627.7756 Cu Ft |

| Evaporation                  =         0.0000 Cu Ft |

| Outflow + Final Volume       =  11.162528E+06 Cu Ft |

*==================================================*


*================================================*
| Total Model Continuity Error                   |
| Error in Continuity, Percent =        -0.3343 |
| Error in Continuity, ft^3    =     -37164.406 |
| + Error means a continuity loss, - a gain      |
*================================================*

#####################################################
# Table E22. Numerical Model judgement section    #
#####################################################

Your overall error was                                    -0.3343 percent


Worst nodal error was in node MHI-103          with       23.4090 percent


Of the total inflow this loss was                          0.0651 percent


Your overall continuity error was                 Excellent


                                                 Excellent Efficiency


Efficiency of the simulation                      2.05


Most Number of Non Convergences at one Node       1.


Total Number Non Convergences at all Nodes        5.


Total Number of Nodes with Non Convergences       5.



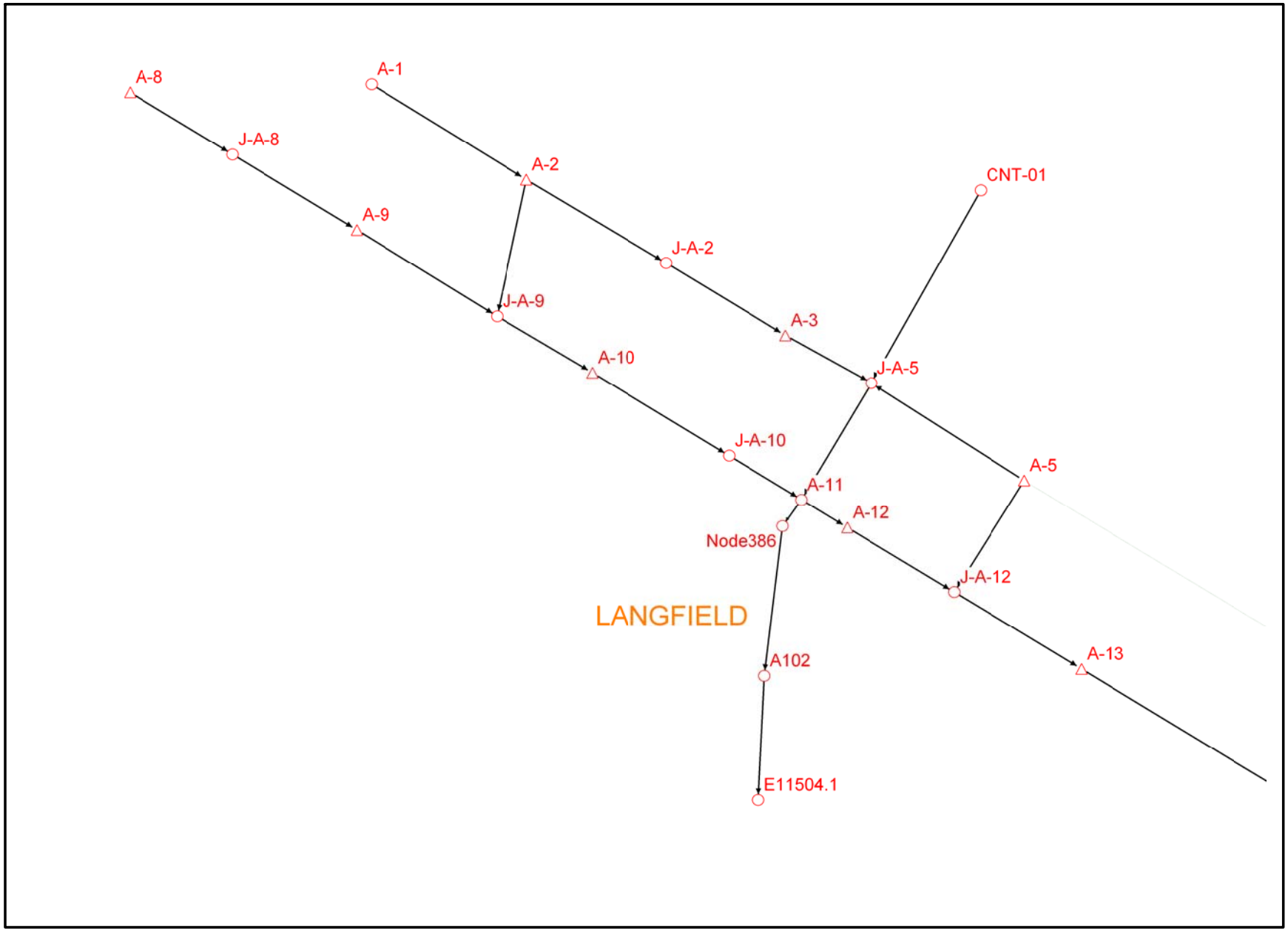
===> Hydraulic model simulation ended normally.
===> XP-SWMM Simulation ended normally.


===> Your input file was named  : P:\PROJECTS\290PMC\PhaseII\DRA\Models\SWMM\Segment A\Existing\US290_SegA_Sys_BNGLHOL_Ext100-8-31-09.DAT
===> Your output file was named : P:\PROJECTS\290PMC\PhaseII\DRA\Models\SWMM\Segment A\Existing\US290_SegA_Sys_BNGLHOL_Ext100-8-31-09.out

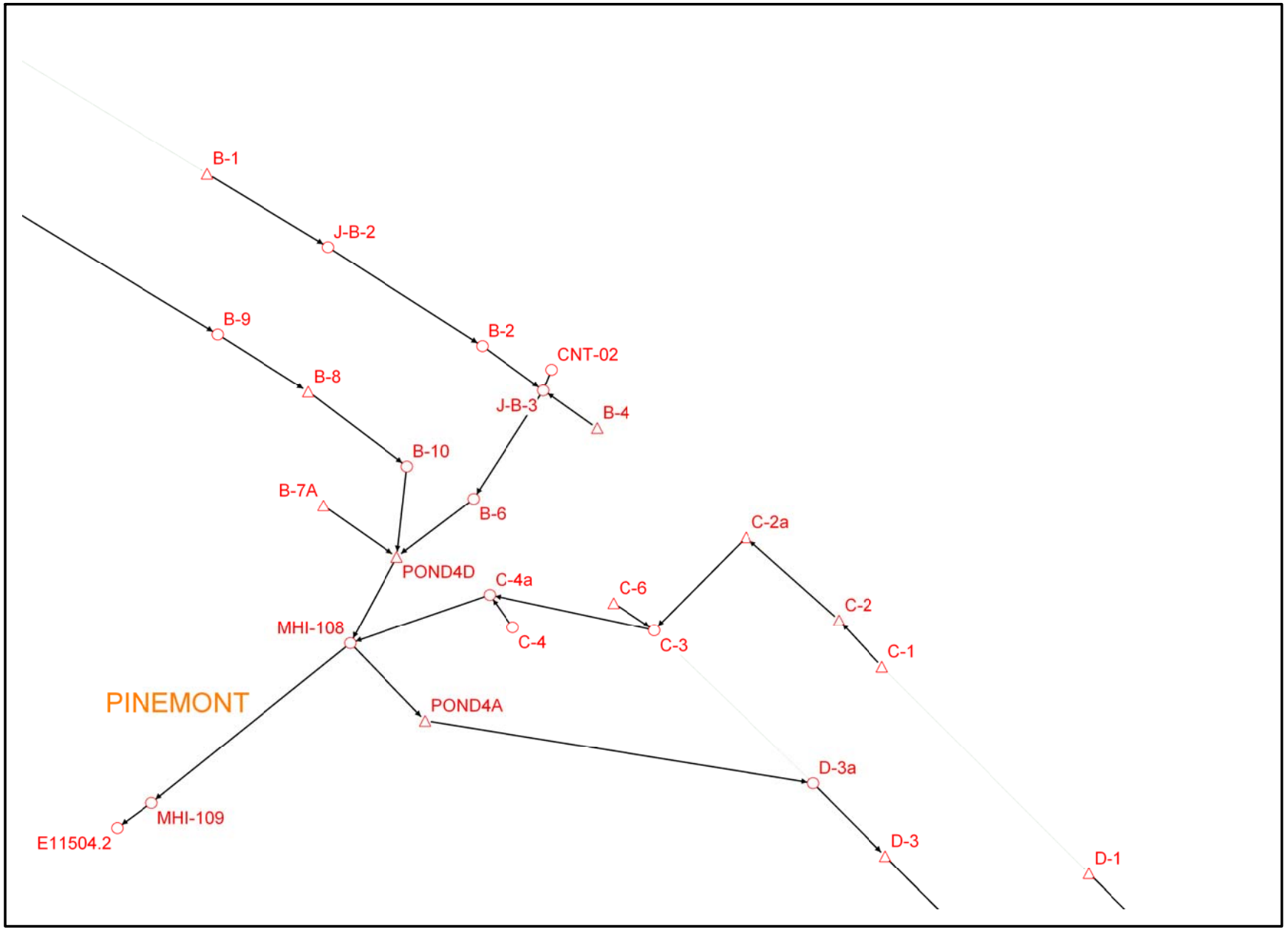
*============================================================*
|             SWMM Simulation Date and Time Summary          |
*============================================================*
| Starting Date... September   4, 2009  Time...   13:13:13:85  |
|   Ending Date... September   4, 2009  Time...   13:15:41:96  |
|  Elapsed Time...    2.46850 minutes or    148.11000 seconds  |
*============================================================*
```

OUTFALLS 17-19
SWMM OUTPUT
100 YR- MITIGATED CONDITIONS

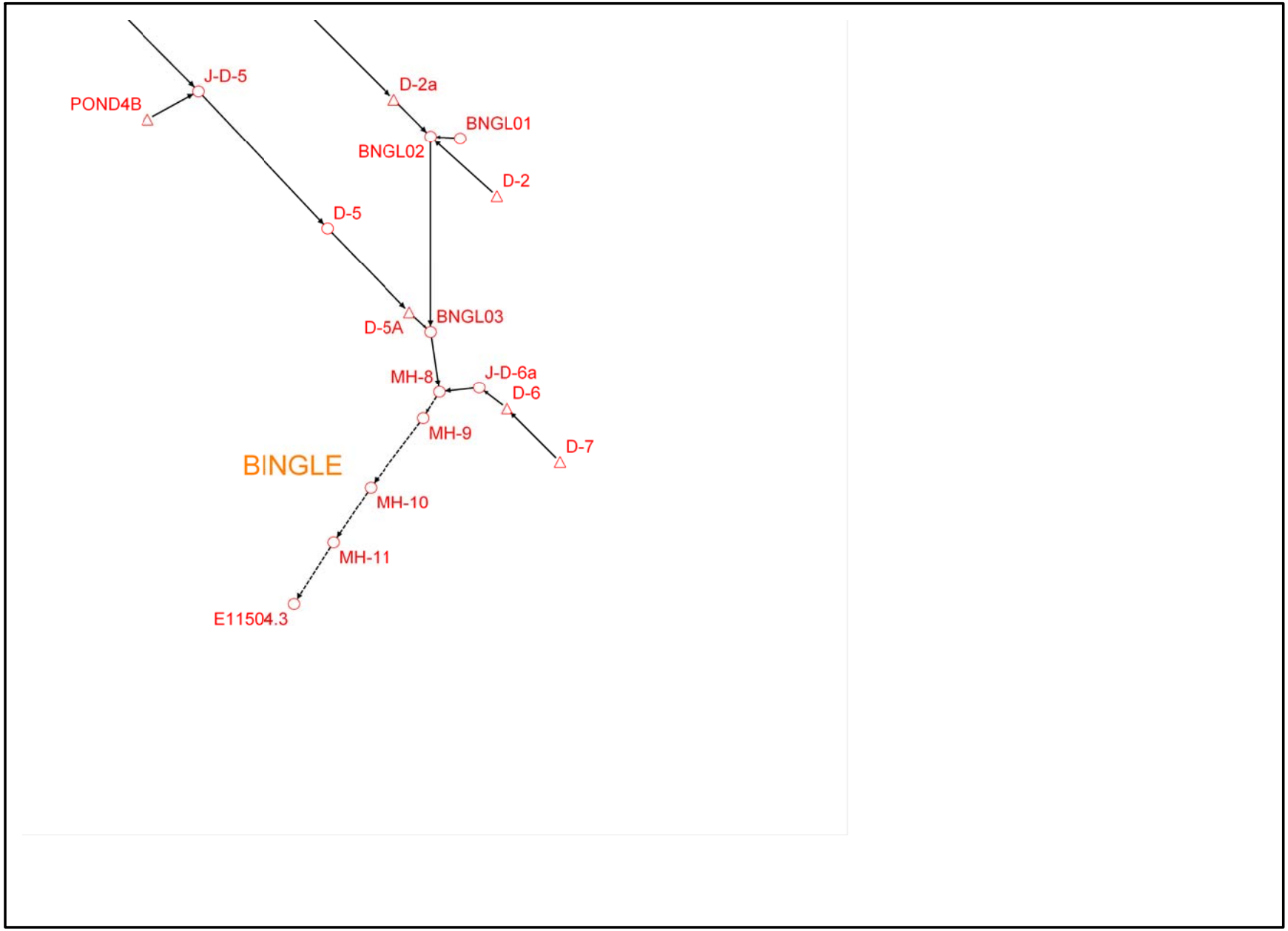
OUTFALL 17, 18, & 19
MITIGATED CONDITIONS SWMM LAYOUT



OUTFALL 17, 18, & 19
MITIGATED CONDITIONS SWMM LAYOUT



OUTFALL 17, 18, & 19
MITIGATED CONDITIONS SWMM LAYOUT



Current Directory: C:\XPS\xpstorm
Engine Name: C:\XPS\xpstorm\SWMMEN~1.EXE

Input File : els\SWMM\Segment A\Mitigated\US290_SegA_BNGLHOL_Mit100-8-31-09.XP

```
          *================================================*
          |                    xpswmm                      |
          |     Storm and Wastewater Management Model      |
          |           Interface Version: 10.52             |
          |              Engine Version: 10.54             |
          |================================================|
          |                                                |
          |                Developed by                    |
          |                                                |
          |                XP Software                     |
          |                                                |
          |================================================|
          |      XP Software       November, 2006          |
          |       Data File Version --->   11.9            |
          |       Serial Number: 66-1000-0581              |
          |                      HNTB                      |
          *================================================*
```

Engine Name: C:\XPS\xpstorm\SWMMEN~1.EXE

==
| Input and Output file names by Layer |
==

Input File to Layer #   1 JOT.US
Output File to Layer #   1 JOT.US

==
| Special command line arguments in XP-SWMM2000. This |
| now includes program defaults. $Keywords are the program|
| defaults. Other Keywords are from the SWMMCOM.CFG file.|
| or the command line or any cfg file on the command line.|
| Examples include these in the file xpswm.bat under the |
| section :solve or in the windows version XPSWMM32 in the|
| file solve.bat |
| |
| Note: the cfg file should be in the subdirectory swmxp |
| or defined by the set variable in the xpswm.bat |
| file. Some examples of the command lines possible|
| are shown below: |
| |
| swmmd swmmcom.cfg |
| swmmd my.cfg |
| swmmd nokeys nconv5 perv extranwq |
==

$powerstation	0.0000	1	2
$perv	0.0000	0	4
$oldegg	0.0000	0	7
$as	0.0000	0	11
$noflat	0.0000	0	21
$oldomega	0.0000	0	24
$oldvol	0.0000	1	28
$implicit	0.0000	1	29
$oldhot	0.0000	1	31
$oldscs	0.0000	0	33
$flood	0.0000	1	40
$nokeys	0.0000	0	42
$pzero	0.0000	0	55
$oldvol2	0.0000	2	59
$storage2	0.0000	3	62
$oldhot1	0.0000	1	63
$pumpwt	0.0000	1	70
$ecloss	0.0000	1	77
$exout	0.0000	0	97
$spatial = 0.90	0.9000	5	124
$djref = -1.0	-0.1000	3	143
$weirlen = 50	50.0000	1	153
$oldbnd	0.0000	1	154
$nogrelev	0.0000	1	161
$ncmid	0.0000	0	164
$new_nl_97	0.0000	2	290
$best97	0.0000	1	294
$newbound	0.0000	1	295
$q_tol = 0.01	0.0001	1	316
$new_storage	0.0000	1	322
$old_iteration	0.0000	1	333
$minlen=30.0	30.0000	1	346
$review_elevation	0.0000	1	383
$use_half_volume	0.0000	1	385
$min_ts = 0.5	0.5000	1	407
$design_restart = on	0.0000	1	412
$zero_value=1.e-05	0.0000	1	415
$relax_depth = on	0.0000	1	427
$saveallpts = on	0.0000	1	434

==
| Parameter Values on the Tapes Common Block.These are the |
| values read from the data file and dynamically allocated |
| by the model for this simulation. |
==

Number of Subcatchments in the Runoff Block (NW)....	0
Number of Channel/Pipes in the Runoff Block (NG)....	0
Runoff Water quality constituents (NRQ).....	0
Runoff Land Uses per Subcatchment (NLU).....	0
Number of Elements in the Transport Block (NET).....	0
Number of Storage Junctions in Transport (NTSE).....	0
Number of Input Hydrographs in Transport (NTH).....	0
Number of Elements in the Extran Block (NEE).....	71
Number of Groundwater Subcatchments in Runoff (NGW).	0
Number of Interface locations for all Blocks (NIE)..	71
Number of Pumps in Extran (NEP).....	0
Number of Orifices in Extran (NEO).....	0
Number of Tide Gates/Free Outfalls in Extran (NTG)..	3
Number of Extran Weirs (NEW).....	0
Number of scs hydrograph points.....	1
Number of Extran printout locations (NPO).....	0
Number of Tide elements in Extran (NTE).....	3
Number of Natural channels (NNC).....	0
Number of Storage junctions in Extran (NVSE).....	26
Number of Time history data points in Extran(NTVAL).	300
Number of Variable storage elements in Extran (NVST)	11
Number of Input Hydrographs in Extran (NEH).....	40
Number of Particle sizes in Transport Block (NPS)...	0
Number of User defined conduits (NHW).....	71
Number of Connecting conduits in Extran (NECC).....	20
Number of Upstream elements in Transport (NTCC).....	10
Number of Storage/treatment plants (NSTU).....	1

```
 Number of Values for R1 lines in Transport (NR1)....     0
 Number of Nodes to be allowed for (NNOD)............    71
 Number of Plugs in a Storage Treatment Unit.........     1


##################################################
#    Entry made to the HYDRAULIC Layer(Block) of SWMM #
#    Last Updated June,2005 by XP Software         #

    US 290/Hempstead Hwy Corridor-Drainage Impact Study
    Proposed Mitigated Conditions PineMont to Hollister /// 100-Year Freque


*============================================================*
|        HYDRAULICS TABLES IN THE OUTPUT FILE                |
|  These are the more important tables in the output file.   |
|  You can use your editor to find the table numbers,        |
|  for example: search for Table E20 to check continuity.    |
|  This output file can be imported into a Word Processor    |
|  and printed on US letter or A4 paper using portrait       |
|  mode, courier font, a size of 8 pt. and margins of 0.75   |
|                                                            |
| Table E1   - Basic Conduit Data                            |
| Table E2   - Conduit Factor Data                           |
| Table E3a  - Junction Data                                 |
| Table E3b  - Junction Data                                 |
| Table E4   - Conduit Connectivity Data                     |
| Table E4a  - Dry Weather Flow Data                         |
| Table E4b  - Real Time Control Data                        |
| Table E5   - Junction Time Step Limitation Summary         |
| Table E5a  - Conduit Explicit Condition Summary            |
| Table E6   - Final Model Condition                         |
| Table E7   - Iteration Summary                             |
| Table E8   - Junction Time Step Limitation Summary         |
| Table E9   - Junction  Summary  Statistics                 |
| Table E10  - Conduit   Summary  Statistics                 |
| Table E11  - Area assumptions used in the analysis         |
| Table E12  - Mean conduit information                      |
| Table E13  - Channel losses(H) and culvert info            |
| Table E13a - Culvert Analysis Classification               |
| Table E14  - Natural Channel Overbank Flow Information     |
| Table E14a - Natural Channel Encroachment Information      |
| Table E14b - Floodplain Mapping                            |
| Table E15  - Spreadsheet Info List                         |
| Table E15a - Spreadsheet Reach List                        |
| Table E16  - New Conduit Output Section                    |
| Table E17  - Pump Operation                                |
| Table E18  - Junction Continuity Error                     |
| Table E19  - Junction Inflow & Outflow Listing             |
| Table E20  - Junction Flooding and Volume List             |
| Table E21  - Continuity balance at simulation end          |
| Table E22  - Model Judgement Section                       |
*============================================================*

Time Control from Hydraulics Job Control
Year.........    2007 Month.......       1
Day..........       1 Hour........       0
Minute.......       0 Second......       0


Control information for simulation
----------------------------------

Integration cycles..................      8640
Length of integration step is......     20.00 seconds
Simulation length...................     48.00 hours
Do not create equiv. pipes(NEQUAL).         0
Use U.S. customary units for I/O...         0
Printing starts in cycle...........         1
Intermediate printout intervals of.       180 cycles
Intermediate printout intervals of.     60.00 minutes
Summary printout intervals of......       180 cycles
Summary printout time interval of..     60.00 minutes
Hot start file parameter (REDO)....         0
Initial time........................      0.00 hours

Iteration variables: Flow Tolerance.   0.00010
                     Head Tolerance.   0.00050
    Minimum depth (m or ft).........   0.00001
    Underrelaxation parameter.......   0.85000
    Time weighting parameter........   0.85000
    Conduit roughness factor........   1.00000
    Flow adjustment factor..........   1.00000
    Initial Condition Smoothing.....         0
    Courant Time Step Factor........   1.00000
    Default Expansion/Contraction K.   0.00000
    Default Entrance/Exit K.........   0.00000
    Routing Method..................   Dynamic Wave
Default surface area of junctions...     12.57 square feet.
Minimum Junction/Conduit Depth......   0.00001 feet.
Ponding Area Coefficient............   5000.00
Ponding Area Exponent...............    1.0000
Minimum Orifice Length..............   1000.00 feet.
NJSW input hydrograph junctions.....     40
     or user defined hydrographs....

*============================================================*
|               Flap Gate Conduit Information                |
|              ----------------------------                  |
| Positive Flap Gate - Flow only allowed from the upstream   |
|                      to the downstream junction            |
| Negative Flap Gate - Flow only allowed from the            |
|                      downstream to the upstream junction   |
*============================================================*

   Conduit   Type of Flap Gate
   -------   -----------------
E11504_2    Positive Flap Gate
E11504_1    Positive Flap Gate

*==================================================*
|          Table E1 - Conduit Data                 |
*==================================================*

                                                                                                  Trapezoid
 Inp          Conduit     Length    Conduit      Area    Manning  Max Width      Depth       Side
 Num           Name        (ft)      Class     (ft^2)     Coef.    (ft)         (ft)       Slopes
---- --------------- ---------- ---------   -------    -------  ---------      -----      -------
   1        L-MHI-107   207.0000   Circular   12.5664     0.0130     4.0000     4.0000
   2        L-MHI-108   600.0000  Rectangle   35.0000     0.0130     7.0000     5.0000
   3         E11504_2    30.0000  Rectangle   35.0000     0.0130     7.0000     5.0000
   4         E11504_1   221.0000  Rectangle   40.0000     0.0130     8.0000     5.0000
   5         L_L-A-11   282.0000  Rectangle   48.0000     0.0130     8.0000     6.0000
   6       L_L-A-11A   115.2650  Rectangle   40.0000     0.0130     8.0000     5.0000
   7       L_L-A-11B   182.6330   Circular   19.6350     0.0130     5.0000     5.0000
   8          L_L-A-3   211.2470  Rectangle   24.0000     0.0130     6.0000     4.0000
   9          L_L-A-5   388.7530   Circular    9.6211     0.0130     3.5000     3.5000
  10        L_L-J-A-5   489.0000   Circular   12.5664     0.0130     4.0000     4.0000
```

11	L_L-A-12	268.3820	Rectangle	40.0000	0.0130	8.0000	5.0000
12	L_L-J-A-10	342.6010	Circular	19.6350	0.0130	5.0000	5.0000
13	L_L-J-A-2	299.4490	Rectangle	24.0000	0.0130	6.0000	4.0000
14	L_L-J-A-12	318.7980	Rectangle	40.0000	0.0130	8.0000	5.0000
15	L_L-A-10	239.2910	Circular	15.9043	0.0130	4.5000	4.5000
16	L_L-J-A-9	351.3410	Circular	15.9043	0.0130	4.5000	4.5000
17	L_L-A-1	388.6080	Rectangle	24.0000	0.0130	6.0000	4.0000
18	L_L-A-9	312.0000	Circular	15.9043	0.0130	4.5000	4.5000
19	L_L-A-8	256.7830	Circular	12.5664	0.0130	4.0000	4.0000
20	L_L-D-5A	25.4050	Rectangle	16.0000	0.0130	4.0000	4.0000
21	L_L-BNGL03	417.7260	Rectangle	30.0000	0.0130	6.0000	5.0000
22	L_L-D-5	287.5310	Rectangle	16.0000	0.0130	4.0000	4.0000
23	L_L-D-2	187.9180	Circular	7.0686	0.0130	3.0000	3.0000
24	L_L-BNGL01	63.4000	Circular	12.5664	0.0130	4.0000	4.0000
25	L_L-BNGL02	112.1280	Circular	9.6211	0.0130	3.5000	3.5000
26	L_L-J-D-5	403.6480	Rectangle	16.0000	0.0130	4.0000	4.0000
27	L_L-D-2A	273.5720	Circular	7.0686	0.0130	3.0000	3.0000
28	L_L-D-3	299.0000	Rectangle	16.0000	0.0130	4.0000	4.0000
29	L_L-D-3A	221.1730	Rectangle	16.0000	0.0130	4.0000	4.0000
30	L_L-J-D-6A	85.3730	Circular	9.6211	0.0130	3.5000	3.5000
31	L_L-D-6	74.9320	Circular	9.6211	0.0130	3.5000	3.5000
32	L_L-D-7	160.9400	Circular	7.0686	0.0130	3.0000	3.0000
33	L_L-J-B-3	279.5530	Rectangle	30.0000	0.0130	6.0000	5.0000
34	L_L-B-9	226.7000	Rectangle	40.0000	0.0130	8.0000	5.0000
35	L_L-B-2	160.1760	Circular	15.9043	0.0130	4.5000	4.5000
36	L_L-B-4	142.9380	Circular	7.0686	0.0130	3.0000	3.0000
37	L_L-CNT-02	4.0000	Circular	12.5664	0.0130	4.0000	4.0000
38	L_L-J-B-2	393.2910	Circular	12.5664	0.0130	4.0000	4.0000
39	L_L-B-1	303.5380	Circular	12.5664	0.0130	4.0000	4.0000
40	L_L-C-3	105.9310	Circular	3.1416	0.0130	2.0000	2.0000
41	L_L-C-2A	282.7090	Rectangle	12.0000	0.0130	4.0000	3.0000
42	L_L-C-2	268.4560	Rectangle	9.0000	0.0130	3.0000	3.0000
43	Link322	78.0000	Rectangle	48.0000	0.0130	8.0000	6.0000
44	Link323	106.0000	Circular	3.1416	0.0130	2.0000	2.0000
45	L-C4	120.0000	Circular	3.1416	0.0130	2.0000	2.0000
46	L-C-4A	340.0000	Circular	12.5664	0.0130	4.0000	4.0000
47	L-C-1	134.5250	Circular	7.0686	0.0130	3.0000	3.0000
48	L-BNGL03	130.0000	Rectangle	30.0000	0.0130	6.0000	5.0000
49	L-A102	20.0000	Rectangle	40.0000	0.0130	8.0000	5.0000
50	L-POND4B	73.0000	Rectangle	16.0000	0.0130	4.0000	4.0000
51	L-A-2	346.6000	Rectangle	24.0000	0.0130	6.0000	4.0000
52	Link335	583.6700	Rectangle	40.0000	0.0130	8.0000	5.0000
53	Link339	204.0000	Rectangle	32.0000	0.0130	8.0000	4.0000
54	Link340	440.0000	Rectangle	12.0000	0.0130	4.0000	3.0000
55	Link342	375.0000	Rectangle	40.0000	0.0130	8.0000	5.0000
56	L-B-10	225.0000	Rectangle	40.0000	0.0130	8.0000	5.0000
57	Link344	73.0000	Rectangle	40.0000	0.0130	8.0000	5.0000
58	Link345	70.0000	Rectangle	30.0000	0.0130	6.0000	5.0000
59	Link347	280.0000	Circular	4.9087	0.0130	2.5000	2.5000
60	Link348	320.0000	Circular	12.5664	0.0130	4.0000	4.0000
61	948.1	340.0000	Circular	23.7583	0.0130	5.5000	5.5000
62	948.2	340.0000	Circular	7.0686	0.0130	3.0000	3.0000
63	952.1	420.0000	Circular	23.7583	0.0130	5.5000	5.5000
64	952.2	420.0000	Circular	7.0686	0.0130	3.0000	3.0000
65	1062.1	210.0000	Circular	23.7583	0.0130	5.5000	5.5000
66	36"	210.0000	Circular	7.0686	0.0130	3.0000	3.0000
67	1063.1	180.0000	Circular	23.7583	0.0130	5.5000	5.5000
68	24" RCP	49.0700	Circular	3.1416	0.0130	2.0000	2.0000

Total length of all conduits .... 16372.0540 feet

==
| Table E2 - Conduit Factor Data |
==

Conduit Name	Number of Barrels	Entrance Loss Coef	Exit Loss Coef	Exp/Contc Coefficnt	Time Weighting Parameter	Low Flow Roughness Factor	Depth at Which n Changes	Flow Routing
E11504_2	1.0000	0.0000	0.5000	0.0000	0.8500	1.0000	0.0000	Standard - Dynamic Wave
Link339	1.0000	0.0000	0.5000	0.0000	0.8500	1.0000	0.0000	Standard - Dynamic Wave

==
| If there are messages about (sqrt(g*d)*dt/dx), or |
| the sqrt(wave celerity)*time step/conduit length |
| in the output file all it means is that the |
| program will lower the internal time step to |
| satisfy this condition (explicit condition). |
| You control the actual internal time step by |
| using the minimum courant time step factor in the |
| HYDRAULICS job control. The message put in words |
| states that the smallest conduit with the fastest |
| velocity will control the time step selection. |
| You have further control by using the modify |
| conduit option in the HYDRAULICS Job Control. |
==

Conduit Name	Courant Ratio	
L-MHI-107	1.10	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-MHI-108	0.42	
E11504_2	8.46	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
E11504_1	1.15	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L_L-A-11	0.99	
L_L-A-11A	2.20	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L_L-A-11B	1.39	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L_L-A-3	1.07	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L_L-A-5	0.55	
L_L-J-A-5	0.46	
L_L-A-12	0.95	
L_L-J-A-10	0.74	
L_L-J-A-2	0.76	
L_L-J-A-12	0.80	
L_L-A-10	1.01	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L_L-J-A-9	0.69	
L_L-A-1	0.58	
L_L-A-9	0.77	
L_L-A-8	0.88	
L_L-D-5A	7.57	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L_L-BNGL03	0.61	
L_L-D-5	0.79	
L_L-D-2	1.05	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L_L-BNGL01	3.58	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L_L-BNGL02	1.89	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L_L-J-D-5	0.56	
L_L-D-2A	0.72	
L_L-D-3	0.76	
L_L-D-3A	1.03	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L_L-J-D-6A	2.49	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L_L-D-6	2.83	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L_L-D-7	1.22	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L_L-J-B-3	0.91	
L_L-B-9	1.12	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L_L-B-2	1.50	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L_L-B-4	1.38	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L_L-CNT-02	7.57	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L_L-J-B-2	0.58	

L_L-B-1	0.75	
L_L-C-3	1.52	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L_L-C-2A	0.70	
L_L-C-2	0.73	
Link322	3.56	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
Link323	1.51	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-C4	1.34	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-C-4A	0.67	
L-C-1	1.46	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-BNGL03	1.95	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-A102	8.46	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-POND4B	3.11	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L-A-2	0.65	
Link335	0.43	
Link339	1.11	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
Link340	0.45	
Link342	0.68	
L-B-10	1.13	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
Link344	3.48	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
Link345	3.63	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
Link347	0.64	
Link348	0.71	
948.1	0.78	
948.2	0.58	
952.1	0.63	
952.2	0.47	
1062.1	1.27	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
36"	0.94	
1063.1	1.48	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
24" RCP	3.27	===> Warning ! (sqrt(wave celerity)*time step/conduit length)

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| Conduit Volume |
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Full pipe or full open conduit volume
Input full depth volume..... 3.3915E+05 cubic feet

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| Table E3a - Junction Data |
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Inp Num	Junction Name	Ground Elevation	Crown Elevation	Invert Elevation	Qinst cfs	Initial Depth-ft	Interface Flow (%)
1	C-4a	80.0000	80.0000	70.8600	0.0000	0.0000	100.0000
2	MHI-108	80.0000	80.0000	70.3800	0.0000	0.0000	100.0000
3	MHI-109	80.8000	80.8000	69.5500	0.0000	0.0000	100.0000
4	E11504.2	81.6300	74.5200	69.5200	0.0000	0.0000	100.0000
5	E11504.1	80.5000	75.9200	70.9200	0.0000	0.0000	100.0000
6	A102	80.5000	80.5000	71.3800	0.0000	0.0000	100.0000
7	MH-9	77.1900	73.9400	66.1300	0.0000	0.0000	100.0000
8	MH-11	75.2700	71.6800	65.3700	0.0000	0.0000	100.0000
9	MH-10	77.8100	73.3300	65.7900	0.0000	0.0000	100.0000
10	E11504.3	76.8100	71.4700	65.1600	0.0000	0.0000	100.0000
11	A-11	82.1900	82.1900	71.8100	0.0000	0.0000	100.0000
12	J-A-5	81.6200	81.6200	72.3800	0.0000	0.0000	100.0000
13	A-12	81.7900	77.5600	72.5600	0.0000	0.0000	100.0000
14	J-A-10	82.8300	82.8300	73.1000	0.0000	0.0000	100.0000
15	A-3	81.6700	77.3510	73.3500	0.0000	0.0000	100.0000
16	A-5	81.6700	78.2780	74.7700	0.0000	0.0000	100.0000
17	CNT-01	81.8300	81.8300	73.3400	0.0000	0.0000	100.0000
18	J-A-12	82.7300	82.7300	72.2900	0.0000	0.0000	100.0000
19	A-10	81.9300	78.4400	73.4400	0.0000	0.0000	100.0000
20	J-A-2	82.3800	82.3800	73.6460	0.0000	0.0000	100.0000
21	A-13	81.8400	76.9700	71.9700	0.0000	0.0000	100.0000
22	J-A-9	82.7700	82.7700	73.6770	0.0000	0.0000	100.0000
23	A-2	81.6700	77.9970	73.9970	0.0000	0.0000	100.0000
24	A-9	81.9000	78.5300	74.0300	0.0000	0.0000	100.0000
25	A-1	82.7500	82.7500	74.3860	0.0000	0.0000	100.0000
26	J-A-8	82.6900	82.6900	74.3400	0.0000	0.0000	100.0000
27	A-8	81.7900	78.6000	74.6000	0.0000	0.0000	100.0000
28	BNGL03	76.6700	72.4100	66.4400	0.0000	0.0000	100.0000
29	D-5A	76.5400	71.9700	67.9700	0.0000	0.0000	100.0000
30	BNGL02	76.7200	73.3730	67.9600	0.0000	0.0000	100.0000
31	D-5	77.9800	77.9800	68.2600	0.0000	0.0000	100.0000
32	D-2	76.1900	73.0610	70.0610	0.0000	0.0000	100.0000
33	BNGL01	77.8300	77.8300	68.0400	0.0000	0.0000	100.0000
34	D-2a	76.4900	73.4850	69.9850	0.0000	0.0000	100.0000
35	J-D-5	79.9900	79.9900	68.6600	0.0000	0.0000	100.0000
36	D-1	77.8500	73.7590	70.7590	0.0000	0.0000	100.0000
37	D-3	78.9400	72.9600	68.9600	0.0000	0.0000	100.0000
38	D-3a	80.0500	73.1900	69.1900	0.0000	0.0000	100.0000
39	MH-8	77.1200	73.4200	66.3100	0.0000	0.0000	100.0000
40	J-D-6a	76.5200	72.8400	69.3400	0.0000	0.0000	100.0000
41	D-6	75.9100	72.9100	69.4100	0.0000	0.0000	100.0000
42	D-7	76.4700	73.0700	70.0700	0.0000	0.0000	100.0000
43	B-6	81.4700	81.4700	71.9100	0.0000	0.0000	100.0000
44	B-8	81.0900	76.1600	71.1600	0.0000	0.0000	100.0000
45	J-B-3	81.6500	81.6500	72.1800	0.0000	0.0000	100.0000
46	B-9	81.8900	81.8900	71.3800	0.0000	0.0000	100.0000
47	B-2	81.6700	81.6700	72.3500	0.0000	0.0000	100.0000
48	B-4	81.1700	76.1470	73.1470	0.0000	0.0000	100.0000
49	CNT-02	80.5000	80.5000	72.1900	0.0000	0.0000	100.0000
50	J-B-2	81.6700	81.6700	73.2350	0.0000	0.0000	100.0000
51	B-1	81.6700	77.5390	73.5390	0.0000	0.0000	100.0000
52	C-3	80.7600	80.7600	71.3700	0.0000	0.0000	100.0000
53	C-6	80.1500	77.1560	75.1560	0.0000	0.0000	100.0000
54	C-2a	79.8500	79.8500	72.1070	0.0000	0.0000	100.0000
55	C-2	78.9100	78.9100	72.3750	0.0000	0.0000	100.0000
56	C-1	78.5100	75.5100	72.5100	0.0000	0.0000	100.0000
57	B-7A	79.8100	79.8100	72.9800	0.0000	0.0000	100.0000
58	C-4	80.1000	80.1000	73.1400	0.0000	0.0000	100.0000
59	POND4B	82.0000	73.2100	69.2100	0.0000	0.0000	100.0000
60	POND4A	82.0000	82.0000	70.1800	0.0000	0.0000	100.0000
61	Node386	82.1900	82.1900	71.7900	0.0000	0.0000	100.0000
62	POND4D	82.5000	82.5000	70.4600	0.0000	0.0000	100.0000
63	B-10	81.7900	81.7900	70.9330	0.0000	0.0000	100.0000

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| Table E3b - Junction Data |
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Inp Num	Junction Name	X Coord.	Y Coord.	Type of Manhole	Type of Inlet	Maximum Capacity	Pavement Shape	Pavement Slope
1	C-4a	3.080277E+06	13.87191E+06	F	Normal		0	0.0000
2	MHI-108	3.079978E+06	13.87180E+06	F	Normal		0	0.0000
3	MHI-109	3.079551E+06	13.87146E+06	F	Normal		0	0.0000
4	E11504.2	3.079477E+06	13.87141E+06		Normal		0	0.0000
5	E11504.1	3.078500E+06	13.87249E+06		Normal		0	0.0000
6	A102	3.078513E+06	13.87275E+06	F	Normal		0	0.0000
7	MH-9	3.081821E+06	13.87043E+06		Normal		0	0.0000
8	MH-11	3.081629E+06	13.87017E+06		Normal		0	0.0000
9	MH-10	3.081708E+06	13.87029E+06		Normal		0	0.0000
10	E11504.3	3.081544E+06	13.87004E+06		Normal		0	0.0000

11	A-11	3.078593E+06	13.87313E+06		F	Normal	0	0.0000
12	J-A-5	3.078744E+06	13.87338E+06		F	Normal	0	0.0000
13	A-12	3.078692E+06	13.87307E+06	No	P	Normal	0	0.0000
14	J-A-10	3.078437E+06	13.87323E+06		F	Normal	0	0.0000
15	A-3	3.078559E+06	13.87348E+06	No	P	Normal	0	0.0000
16	A-5	3.079072E+06	13.87317E+06	No	P	Normal	0	0.0000
17	CNT-01	3.078978E+06	13.87380E+06		F	Normal	0	0.0000
18	J-A-12	3.078921E+06	13.87293E+06		F	Normal	0	0.0000
19	A-10	3.078144E+06	13.87340E+06	No	P	Normal	0	0.0000
20	J-A-2	3.078302E+06	13.87364E+06		F	Normal	0	0.0000
21	A-13	3.079194E+06	13.87277E+06	No	P	Normal	0	0.0000
22	J-A-9	3.077939E+06	13.87353E+06		F	Normal	0	0.0000
23	A-2	3.078002E+06	13.87382E+06	No	P	Normal	0	0.0000
24	A-9	3.077639E+06	13.87371E+06	No	P	Normal	0	0.0000
25	A-1	3.077670E+06	13.87402E+06		F	Normal	0	0.0000
26	J-A-8	3.077372E+06	13.87387E+06		F	Normal	0	0.0000
27	A-8	3.077152E+06	13.87401E+06	No	P	Normal	0	0.0000
28	BNGL03	3.081837E+06	13.87062E+06			Normal	0	0.0000
29	D-5A	3.081791E+06	13.87066E+06	No	P	Normal	0	0.0000
30	BNGL02	3.081837E+06	13.87104E+06			Normal	0	0.0000
31	D-5	3.081616E+06	13.87084E+06		F	Normal	0	0.0000
32	D-2	3.081978E+06	13.87091E+06	No	P	Normal	0	0.0000
33	BNGL01	3.081900E+06	13.87103E+06		F	Normal	0	0.0000
34	D-2a	3.081758E+06	13.87112E+06	No	P	Normal	0	0.0000
35	J-D-5	3.081339E+06	13.87113E+06		F	Normal	0	0.0000
36	D-1	3.081565E+06	13.87131E+06	No	P	Normal	0	0.0000
37	D-3	3.081129E+06	13.87135E+06	No	P	Normal	0	0.0000
38	D-3a	3.080972E+06	13.87150E+06			Normal	0	0.0000
39	MH-8	3.081856E+06	13.87049E+06			Normal	0	0.0000
40	J-D-6a	3.081941E+06	13.87050E+06			Normal	0	0.0000
41	D-6	3.082001E+06	13.87045E+06	No	P	Normal	0	0.0000
42	D-7	3.082114E+06	13.87034E+06	No	P	Normal	0	0.0000
43	B-6	3.080243E+06	13.87211E+06		F	Normal	0	0.0000
44	B-8	3.079888E+06	13.87234E+06	No	P	Normal	0	0.0000
45	J-B-3	3.080393E+06	13.87235E+06		F	Normal	0	0.0000
46	B-9	3.079693E+06	13.87247E+06		F	Normal	0	0.0000
47	B-2	3.080261E+06	13.87244E+06		F	Normal	0	0.0000
48	B-4	3.080508E+06	13.87227E+06	No	P	Normal	0	0.0000
49	CNT-02	3.080410E+06	13.87239E+06		F	Normal	0	0.0000
50	J-B-2	3.079930E+06	13.87265E+06		F	Normal	0	0.0000
51	B-1	3.079671E+06	13.87281E+06	No	P	Normal	0	0.0000
52	C-3	3.080631E+06	13.87183E+06		F	Normal	0	0.0000
53	C-6	3.080543E+06	13.87189E+06	No	P	Normal	0	0.0000
54	C-2a	3.080828E+06	13.87203E+06		F	Normal	0	0.0000
55	C-2	3.081028E+06	13.87185E+06		F	Normal	0	0.0000
56	C-1	3.081121E+06	13.87175E+06	No	P	Normal	0	0.0000
57	B-7A	3.079920E+06	13.87210E+06		F	Normal	0	0.0000
58	C-4	3.080327E+06	13.87184E+06		F	Normal	0	0.0000
59	POND4B	3.081230E+06	13.87107E+06	No	P	Normal	0	0.0000
60	POND4A	3.080139E+06	13.87164E+06		F	Normal	0	0.0000
61	Node386	3.078552E+06	13.87308E+06		F	Normal	0	0.0000
62	POND4D	3.080078E+06	13.87199E+06		F	Normal	0	0.0000
63	B-10	3.080100E+06	13.87218E+06		F	Normal	0	0.0000

Table E4 - Conduit Connectivity

Input Number	Conduit Name	Upstream Node	Downstream Node	Upstream Elevation	Downstream Elevation	
1	L-MHI-107	C-4a	MHI-108	70.8600	70.3800	No Design
2	L-MHI-108	MHI-108	MHI-109	70.3800	69.5500	No Design
3	E11504_2	MHI-109	E11504.2	69.5500	69.5200	No Design
4	E11504_1	A102	E11504.1	71.3800	70.9200	No Design
5	L_L-A-11	J-A-5	A-11	72.3800	71.8100	No Design
6	L_L-A-11A	A-11	A-12	72.6700	72.5600	No Design
7	L_L-A-11B	J-A-10	A-11	73.1000	72.9170	No Design
8	L_L-A-3	A-3	J-A-5	73.3510	73.1400	No Design
9	L_L-A-5	A-5	J-A-5	74.7780	74.0000	No Design
10	L_L-J-A-5	CNT-01	J-A-5	73.3400	72.3800	No Design
11	L_L-A-12	A-12	J-A-12	72.5600	72.2900	No Design
12	L_L-J-A-10	A-10	J-A-10	73.4400	73.1000	No Design
13	L_L-J-A-2	J-A-2	A-3	73.6490	73.3500	No Design
14	L_L-J-A-12	J-A-12	A-13	72.2900	71.9700	No Design
15	L_L-A-10	J-A-9	A-10	73.6770	73.4400	No Design
16	L_L-J-A-9	A-9	J-A-9	74.0300	73.6770	No Design
17	L_L-A-1	A-1	A-2	74.3860	73.9970	No Design
18	L_L-A-9	J-A-8	A-9	74.3400	74.0300	No Design
19	L_L-A-8	A-8	J-A-8	74.6000	74.3400	No Design
20	L_L-D-5A	D-5A	BNGL03	67.9700	67.9400	No Design
21	L_L-BNGL03	BNGL02	BNGL03	67.9600	67.4100	No Design
22	L_L-D-5	D-5	D-5A	68.2600	67.9700	No Design
23	L_L-D-2	D-2	BNGL02	70.0610	69.8730	No Design
24	L_L-BNGL01	BNGL01	BNGL02	68.0400	67.9600	No Design
25	L_L-BNGL02	D-2a	BNGL02	69.9850	69.8730	No Design
26	L_L-J-D-5	J-D-5	D-5	68.6600	68.2600	No Design
27	L_L-D-2A	D-1	D-2a	70.7590	70.4850	No Design
28	L_L-D-3	D-3	J-D-5	68.9600	68.6600	No Design
29	L_L-D-3A	D-3a	D-3	69.1900	68.9600	No Design
30	L_L-J-D-6A	J-D-6a	MH-8	69.3400	69.2600	No Design
31	L_L-D-6	D-6	J-D-6a	69.4100	69.3400	No Design
32	L_L-D-7	D-7	D-6	70.0700	69.9100	No Design
33	L_L-J-B-3	J-B-3	B-6	72.1800	71.9140	No Design
34	L_L-B-9	B-9	B-8	71.3800	71.1600	No Design
35	L_L-B-2	B-2	J-B-3	72.3500	72.1900	No Design
36	L_L-B-4	B-4	J-B-3	73.1470	72.7900	No Design
37	L_L-CNT-02	CNT-02	J-B-3	72.1900	72.1800	No Design
38	L_L-J-B-2	J-B-2	B-2	73.2390	72.8460	No Design
39	L_L-B-1	B-1	J-B-2	73.5390	73.2350	No Design
40	L_L-C-3	C-6	C-3	75.1560	75.0500	No Design
41	L_L-C-2A	C-2a	C-3	72.1070	71.8200	No Design
42	L_L-C-2	C-2	C-2a	72.3750	72.1070	No Design
43	Link322	POND4D	MHI-108	70.4600	70.3800	No Design
44	Link323	B-7A	POND4D	72.9800	72.4500	No Design
45	L-C4	C-4	C-4a	73.1400	72.9000	No Design
46	L-C-4A	C-3	C-4a	71.3700	70.8600	No Design
47	L-C-1	C-1	C-2	72.5100	72.3750	No Design
48	L-BNGL03	BNGL03	MH-8	66.4400	66.3100	No Design
49	L-A102	A-11	Node386	71.8100	71.7900	No Design
50	L-POND4B	POND4B	J-D-5	69.2100	68.9700	No Design
51	L-A-2	A-2	J-A-2	73.9970	73.6460	No Design
52	Link335	A-13	B-9	71.9700	71.3800	No Design
53	Link339	MHI-108	POND4A	70.3800	70.1800	No Design
54	Link340	POND4A	D-3a	70.1800	69.1900	No Design
55	Link342	Node386	A102	71.7900	71.3800	No Design
56	L-B-10	B-8	B-10	71.1600	70.9330	No Design
57	Link344	B-10	POND4D	70.9330	70.8600	No Design
58	Link345	B-6	POND4D	71.9100	71.5700	No Design
59	Link347	A-5	J-A-12	74.7700	74.0700	No Design
60	Link348	A-2	J-A-9	73.9970	73.6770	No Design
61	948.1	MH-9	MH-10	66.1300	65.7900	No Design
62	948.2	MH-9	MH-10	70.9400	70.3300	No Design
63	952.1	MH-10	MH-11	65.7900	65.3700	No Design
64	952.2	MH-10	MH-11	70.3300	68.6800	No Design
65	1062.1	MH-11	E11504.3	65.3700	65.1600	No Design
66	36"	MH-11	E11504.3	68.6800	68.4700	No Design

67	1063.1	MH-8	MH-9	66.3100	66.1300	No Design
68	24" RCP	MH-8	MH-9	71.4200	70.9400	No Design

Storage Junction Data

STORAGE JUNCTION NUMBER OR NAME	JUNCTION TYPE	MAXIMUM OR CONSTANT SURFACE AREA (FT2)	PEAK OR CONSTANT VOLUME (CUBIC FEET)	CROWN ELEVATION (FT)	DEPTH STARTS FROM
A-12	Stage/Area	16683.4800	143741.9542	81.7900	Spill Crest
A-3	Stage/Area	16683.4800	128559.9874	81.6700	Spill Crest
A-5	Stage/Area	16683.4800	104869.4458	81.6700	Spill Crest
A-10	Stage/Area	16683.4800	131396.1790	81.9300	Spill Crest
A-13	Stage/Area	16683.4800	154419.3814	81.8400	Spill Crest
A-2	Stage/Area	16683.4800	117765.7759	81.6700	Spill Crest
A-9	Stage/Area	16683.4800	121052.4214	81.9000	Spill Crest
A-8	Stage/Area	16683.4800	109707.6550	81.7900	Spill Crest
D-5A	Stage/Area	16683.4800	132730.8574	76.5400	Spill Crest
D-2	Stage/Area	16683.4800	92006.4827	76.1900	Spill Crest
D-2a	Stage/Area	16683.4800	98279.4712	76.4900	Spill Crest
D-1	Stage/Area	16683.4800	108055.9905	77.8500	Spill Crest
D-3	Stage/Area	16683.4800	156254.5642	78.9400	Spill Crest
D-6	Stage/Area	16683.4800	98196.0538	75.9100	Spill Crest
D-7	Stage/Area	16683.4800	96527.7058	76.4700	Spill Crest
B-8	Stage/Area	16683.4800	155420.3902	81.0900	Spill Crest
B-4	Stage/Area	16683.4800	123604.9939	81.1700	Spill Crest
B-1	Stage/Area	16683.4800	125406.8097	81.6700	Spill Crest
C-6	Stage/Area	16683.4800	73070.7329	80.1500	Spill Crest
C-2a	Stage/Area	16683.4800	118933.6195	79.8500	Spill Crest
C-2	Stage/Area	16683.4800	98779.9756	78.9100	Spill Crest
C-1	Stage/Area	16683.4800	89854.3138	78.5100	Spill Crest
B-7A	Stage/Area	17424.0000	97201.5725	79.8100	Spill Crest
POND4B	Stage/Area	49571.2800	474154.7641	82.0000	Node Invert
POND4A	Stage/Area	270376.9200	2.726690E+06	82.0000	Node Invert
POND4D	Stage/Area	104979.6000	1.025767E+06	82.5000	Node Invert

Variable storage data for node | A-12

Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	72.5600	0.0000	4.3560	0.0000	0.0001	0.0000
2	72.5850	0.0250	150.8265	1.5068	0.0035	0.0000
3	72.6100	0.0500	297.2970	7.0058	0.0068	0.0002
4	72.6350	0.0750	443.7675	16.2082	0.0102	0.0004
5	72.6600	0.1000	590.2380	29.0898	0.0135	0.0007
6	72.6850	0.1250	736.7085	45.6428	0.0169	0.0010
7	72.7100	0.1500	883.1790	65.8638	0.0203	0.0015
8	72.7350	0.1750	1029.6495	89.7507	0.0236	0.0021
9	72.7600	0.2000	1176.1200	117.3026	0.0270	0.0027
10	72.7850	0.2250	1475.5950	150.3783	0.0339	0.0035
11	72.8100	0.2500	1775.0700	190.9540	0.0408	0.0044
12	72.8350	0.2750	2074.5450	239.0256	0.0476	0.0055
13	72.8600	0.3000	2374.0200	294.5906	0.0545	0.0068
14	72.8850	0.3250	2673.4950	357.6475	0.0614	0.0082
15	72.9100	0.3500	2972.9700	428.1952	0.0683	0.0098
16	72.9350	0.3750	3272.4450	506.2330	0.0751	0.0116
17	72.9600	0.4000	3571.9200	591.7602	0.0820	0.0136
18	72.9725	0.4125	3773.3850	637.6626	0.0866	0.0146
19	72.9850	0.4250	3974.8500	686.0836	0.0912	0.0158
20	72.9975	0.4375	4176.3150	737.0232	0.0959	0.0169
21	73.0100	0.4500	4377.7800	790.4814	0.1005	0.0181
22	73.0225	0.4625	4579.2450	846.4581	0.1051	0.0194
23	73.0350	0.4750	4780.7100	904.9533	0.1098	0.0208
24	73.0475	0.4875	4982.1750	965.9670	0.1144	0.0222
25	73.0600	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	73.0725	0.5125	5439.5550	1095.8877	0.1249	0.0252
27	73.0850	0.5250	5695.4700	1165.4755	0.1308	0.0268
28	73.0975	0.5375	5951.3850	1238.2625	0.1366	0.0284
29	73.1100	0.5500	6207.3000	1314.2486	0.1425	0.0302
30	73.1225	0.5625	6463.2150	1393.4340	0.1484	0.0320
31	73.1350	0.5750	6719.1300	1475.8184	0.1542	0.0339
32	73.1475	0.5875	6975.0450	1561.4020	0.1601	0.0358
33	73.1600	0.6000	7230.9600	1650.1848	0.1660	0.0379
34	73.1850	0.6250	7824.4650	1838.3288	0.1796	0.0422
35	73.2100	0.6500	8417.9700	2041.3141	0.1932	0.0469
36	73.2350	0.6750	9011.4750	2259.1400	0.2069	0.0519
37	73.2600	0.7000	9604.9800	2491.8063	0.2205	0.0572
38	73.2850	0.7250	10198.4850	2739.3125	0.2341	0.0629
39	73.3100	0.7500	10791.9900	3001.6585	0.2478	0.0689
40	73.3350	0.7750	11385.4950	3278.8440	0.2614	0.0753
41	73.3600	0.8000	11979.0000	3570.8687	0.2750	0.0820
42	73.3850	0.8250	12567.0600	3877.6651	0.2885	0.0890
43	73.4100	0.8500	13155.1200	4199.1644	0.3020	0.0964
44	73.4350	0.8750	13743.1800	4535.3663	0.3155	0.1041
45	73.4600	0.9000	14331.2400	4886.2709	0.3290	0.1122
46	73.4850	0.9250	14919.3000	5251.8780	0.3425	0.1206
47	73.5100	0.9500	15507.3600	5632.1876	0.3560	0.1293
48	73.5350	0.9750	16095.4200	6027.1995	0.3695	0.1384
49	73.5600	1.0000	16683.4800	6436.9138	0.3830	0.1478
50	81.7900	9.2300	16683.4800	143741.9542	0.3830	3.2999

Variable storage data for node | A-3

Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	73.3500	0.0000	4.3560	0.0000	0.0001	0.0000
2	73.3750	0.0250	150.8265	1.5068	0.0035	0.0000
3	73.4000	0.0500	297.2970	7.0058	0.0068	0.0002
4	73.4250	0.0750	443.7675	16.2082	0.0102	0.0004
5	73.4500	0.1000	590.2380	29.0898	0.0135	0.0007
6	73.4750	0.1250	736.7085	45.6428	0.0169	0.0010
7	73.5000	0.1500	883.1790	65.8638	0.0203	0.0015
8	73.5250	0.1750	1029.6495	89.7507	0.0236	0.0021
9	73.5500	0.2000	1176.1200	117.3026	0.0270	0.0027
10	73.5750	0.2250	1475.5950	150.3783	0.0339	0.0035
11	73.6000	0.2500	1775.0700	190.9540	0.0408	0.0044
12	73.6250	0.2750	2074.5450	239.0256	0.0476	0.0055
13	73.6500	0.3000	2374.0200	294.5906	0.0545	0.0068
14	73.6750	0.3250	2673.4950	357.6475	0.0614	0.0082
15	73.7000	0.3500	2972.9700	428.1952	0.0683	0.0098
16	73.7250	0.3750	3272.4450	506.2330	0.0751	0.0116
17	73.7500	0.4000	3571.9200	591.7602	0.0820	0.0136
18	73.7625	0.4125	3773.3850	637.6626	0.0866	0.0146
19	73.7750	0.4250	3974.8500	686.0836	0.0912	0.0158
20	73.7875	0.4375	4176.3150	737.0232	0.0959	0.0169
21	73.8000	0.4500	4377.7800	790.4814	0.1005	0.0181
22	73.8125	0.4625	4579.2450	846.4581	0.1051	0.0194
23	73.8250	0.4750	4780.7100	904.9533	0.1098	0.0208
24	73.8375	0.4875	4982.1750	965.9670	0.1144	0.0222
25	73.8500	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	73.8625	0.5125	5439.5550	1095.8877	0.1249	0.0252

27	73.8750	0.5250	5695.4700	1165.4755	0.1308	0.0268
28	73.8875	0.5375	5951.3850	1238.2625	0.1366	0.0284
29	73.9000	0.5500	6207.3000	1314.2486	0.1425	0.0302
30	73.9125	0.5625	6463.2150	1393.4340	0.1484	0.0320
31	73.9250	0.5750	6719.1300	1475.8184	0.1542	0.0339
32	73.9375	0.5875	6975.0450	1561.4020	0.1601	0.0358
33	73.9500	0.6000	7230.9600	1650.1848	0.1660	0.0379
34	73.9750	0.6250	7824.4650	1838.3288	0.1796	0.0422
35	74.0000	0.6500	8417.9700	2041.3141	0.1932	0.0469
36	74.0250	0.6750	9011.4750	2259.1400	0.2069	0.0519
37	74.0500	0.7000	9604.9800	2491.8063	0.2205	0.0572
38	74.0750	0.7250	10198.4850	2739.3125	0.2341	0.0629
39	74.1000	0.7500	10791.9900	3001.6585	0.2478	0.0689
40	74.1250	0.7750	11385.4950	3278.8440	0.2614	0.0753
41	74.1500	0.8000	11979.0000	3570.8687	0.2750	0.0820
42	74.1750	0.8250	12567.0600	3877.6651	0.2885	0.0890
43	74.2000	0.8500	13155.1200	4199.1644	0.3020	0.0964
44	74.2250	0.8750	13743.1800	4535.3663	0.3155	0.1041
45	74.2500	0.9000	14331.2400	4886.2709	0.3290	0.1122
46	74.2750	0.9250	14919.3000	5251.8780	0.3425	0.1206
47	74.3000	0.9500	15507.3600	5632.1876	0.3560	0.1293
48	74.3250	0.9750	16095.4200	6027.1995	0.3695	0.1384
49	74.3500	1.0000	16683.4800	6436.9138	0.3830	0.1478
50	81.6700	8.3200	16683.4800	128559.9874	0.3830	2.9513

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| Variable storage data for node | A-5
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	74.7700	0.0000	4.3560	0.0000	0.0001	0.0000
2	74.7950	0.0250	150.8265	1.5068	0.0035	0.0000
3	74.8200	0.0500	297.2970	7.0058	0.0068	0.0002
4	74.8450	0.0750	443.7675	16.2082	0.0102	0.0004
5	74.8700	0.1000	590.2380	29.0898	0.0135	0.0007
6	74.8950	0.1250	736.7085	45.6428	0.0169	0.0010
7	74.9200	0.1500	883.1790	65.8638	0.0203	0.0015
8	74.9450	0.1750	1029.6495	89.7507	0.0236	0.0021
9	74.9700	0.2000	1176.1200	117.3026	0.0270	0.0027
10	74.9950	0.2250	1475.5950	150.3783	0.0339	0.0035
11	75.0200	0.2500	1775.0700	190.9540	0.0408	0.0044
12	75.0450	0.2750	2074.5450	239.0256	0.0476	0.0055
13	75.0700	0.3000	2374.0200	294.5906	0.0545	0.0068
14	75.0950	0.3250	2673.4950	357.6475	0.0614	0.0082
15	75.1200	0.3500	2972.9700	428.1952	0.0683	0.0098
16	75.1450	0.3750	3272.4450	506.2330	0.0751	0.0116
17	75.1700	0.4000	3571.9200	591.7602	0.0820	0.0136
18	75.1825	0.4125	3773.3850	637.6626	0.0866	0.0146
19	75.1950	0.4250	3974.8500	686.0836	0.0912	0.0158
20	75.2075	0.4375	4176.3150	737.0232	0.0959	0.0169
21	75.2200	0.4500	4377.7800	790.4814	0.1005	0.0181
22	75.2325	0.4625	4579.2450	846.4581	0.1051	0.0194
23	75.2450	0.4750	4780.7100	904.9533	0.1098	0.0208
24	75.2575	0.4875	4982.1750	965.9670	0.1144	0.0222
25	75.2700	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	75.2825	0.5125	5439.5550	1095.8877	0.1249	0.0252
27	75.2950	0.5250	5695.4700	1165.4755	0.1308	0.0268
28	75.3075	0.5375	5951.3850	1238.2625	0.1366	0.0284
29	75.3200	0.5500	6207.3000	1314.2486	0.1425	0.0302
30	75.3325	0.5625	6463.2150	1393.4340	0.1484	0.0320
31	75.3450	0.5750	6719.1300	1475.8184	0.1542	0.0339
32	75.3575	0.5875	6975.0450	1561.4020	0.1601	0.0358
33	75.3700	0.6000	7230.9600	1650.1848	0.1660	0.0379
34	75.3950	0.6250	7824.4650	1838.3288	0.1796	0.0422
35	75.4200	0.6500	8417.9700	2041.3141	0.1932	0.0469
36	75.4450	0.6750	9011.4750	2259.1400	0.2069	0.0519
37	75.4700	0.7000	9604.9800	2491.8063	0.2205	0.0572
38	75.4950	0.7250	10198.4850	2739.3125	0.2341	0.0629
39	75.5200	0.7500	10791.9900	3001.6585	0.2478	0.0689
40	75.5450	0.7750	11385.4950	3278.8440	0.2614	0.0753
41	75.5700	0.8000	11979.0000	3570.8687	0.2750	0.0820
42	75.5950	0.8250	12567.0600	3877.6651	0.2885	0.0890
43	75.6200	0.8500	13155.1200	4199.1644	0.3020	0.0964
44	75.6450	0.8750	13743.1800	4535.3663	0.3155	0.1041
45	75.6700	0.9000	14331.2400	4886.2709	0.3290	0.1122
46	75.6950	0.9250	14919.3000	5251.8780	0.3425	0.1206
47	75.7200	0.9500	15507.3600	5632.1876	0.3560	0.1293
48	75.7450	0.9750	16095.4200	6027.1995	0.3695	0.1384
49	75.7700	1.0000	16683.4800	6436.9138	0.3830	0.1478
50	81.6700	6.9000	16683.4800	104869.4458	0.3830	2.4075

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| Variable storage data for node | A-10
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	73.4400	0.0000	4.3560	0.0000	0.0001	0.0000
2	73.4650	0.0250	150.8265	1.5068	0.0035	0.0000
3	73.4900	0.0500	297.2970	7.0058	0.0068	0.0002
4	73.5150	0.0750	443.7675	16.2082	0.0102	0.0004
5	73.5400	0.1000	590.2380	29.0898	0.0135	0.0007
6	73.5650	0.1250	736.7085	45.6428	0.0169	0.0010
7	73.5900	0.1500	883.1790	65.8638	0.0203	0.0015
8	73.6150	0.1750	1029.6495	89.7507	0.0236	0.0021
9	73.6400	0.2000	1176.1200	117.3026	0.0270	0.0027
10	73.6650	0.2250	1475.5950	150.3783	0.0339	0.0035
11	73.6900	0.2500	1775.0700	190.9540	0.0408	0.0044
12	73.7150	0.2750	2074.5450	239.0256	0.0476	0.0055
13	73.7400	0.3000	2374.0200	294.5906	0.0545	0.0068
14	73.7650	0.3250	2673.4950	357.6475	0.0614	0.0082
15	73.7900	0.3500	2972.9700	428.1952	0.0683	0.0098
16	73.8150	0.3750	3272.4450	506.2330	0.0751	0.0116
17	73.8400	0.4000	3571.9200	591.7602	0.0820	0.0136
18	73.8525	0.4125	3773.3850	637.6626	0.0866	0.0146
19	73.8650	0.4250	3974.8500	686.0836	0.0912	0.0158
20	73.8775	0.4375	4176.3150	737.0232	0.0959	0.0169
21	73.8900	0.4500	4377.7800	790.4814	0.1005	0.0181
22	73.9025	0.4625	4579.2450	846.4581	0.1051	0.0194
23	73.9150	0.4750	4780.7100	904.9533	0.1098	0.0208
24	73.9275	0.4875	4982.1750	965.9670	0.1144	0.0222
25	73.9400	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	73.9525	0.5125	5439.5550	1095.8877	0.1249	0.0252
27	73.9650	0.5250	5695.4700	1165.4755	0.1308	0.0268
28	73.9775	0.5375	5951.3850	1238.2625	0.1366	0.0284
29	73.9900	0.5500	6207.3000	1314.2486	0.1425	0.0302
30	74.0025	0.5625	6463.2150	1393.4340	0.1484	0.0320
31	74.0150	0.5750	6719.1300	1475.8184	0.1542	0.0339
32	74.0275	0.5875	6975.0450	1561.4020	0.1601	0.0358
33	74.0400	0.6000	7230.9600	1650.1848	0.1660	0.0379
34	74.0650	0.6250	7824.4650	1838.3288	0.1796	0.0422
35	74.0900	0.6500	8417.9700	2041.3141	0.1932	0.0469
36	74.1150	0.6750	9011.4750	2259.1400	0.2069	0.0519
37	74.1400	0.7000	9604.9800	2491.8063	0.2205	0.0572
38	74.1650	0.7250	10198.4850	2739.3125	0.2341	0.0629
39	74.1900	0.7500	10791.9900	3001.6585	0.2478	0.0689
40	74.2150	0.7750	11385.4950	3278.8440	0.2614	0.0753

41	74.2400	0.8000	11979.0000	3570.8687	0.2750	0.0820
42	74.2650	0.8250	12567.0600	3877.6651	0.2885	0.0890
43	74.2900	0.8500	13155.1200	4199.1644	0.3020	0.0964
44	74.3150	0.8750	13743.1800	4535.3663	0.3155	0.1041
45	74.3400	0.9000	14331.2400	4886.2709	0.3290	0.1122
46	74.3650	0.9250	14919.3000	5251.8780	0.3425	0.1206
47	74.3900	0.9500	15507.3600	5632.1876	0.3560	0.1293
48	74.4150	0.9750	16095.4200	6027.1995	0.3695	0.1384
49	74.4400	1.0000	16683.4800	6436.9138	0.3830	0.1478
50	81.9300	8.4900	16683.4800	131396.1790	0.3830	3.0164

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| Variable storage data for node | A-13
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	71.9700	0.0000	4.3560	0.0000	0.0001	0.0000
2	71.9950	0.0250	150.8265	1.5068	0.0035	0.0000
3	72.0200	0.0500	297.2970	7.0058	0.0068	0.0002
4	72.0450	0.0750	443.7675	16.2082	0.0102	0.0004
5	72.0700	0.1000	590.2380	29.0898	0.0135	0.0007
6	72.0950	0.1250	736.7085	45.6428	0.0169	0.0010
7	72.1200	0.1500	883.1790	65.8638	0.0203	0.0015
8	72.1450	0.1750	1029.6495	89.7507	0.0236	0.0021
9	72.1700	0.2000	1176.1200	117.3026	0.0270	0.0027
10	72.1950	0.2250	1475.5950	150.3783	0.0339	0.0035
11	72.2200	0.2500	1775.0700	190.9540	0.0408	0.0044
12	72.2450	0.2750	2074.5450	239.0256	0.0476	0.0055
13	72.2700	0.3000	2374.0200	294.5906	0.0545	0.0068
14	72.2950	0.3250	2673.4950	357.6475	0.0614	0.0082
15	72.3200	0.3500	2972.9700	428.1952	0.0683	0.0098
16	72.3450	0.3750	3272.4450	506.2330	0.0751	0.0116
17	72.3700	0.4000	3571.9200	591.7602	0.0820	0.0136
18	72.3825	0.4125	3773.3850	637.6626	0.0866	0.0146
19	72.3950	0.4250	3974.8500	686.0836	0.0912	0.0158
20	72.4075	0.4375	4176.3150	737.0232	0.0959	0.0169
21	72.4200	0.4500	4377.7800	790.4814	0.1005	0.0181
22	72.4325	0.4625	4579.2450	846.4581	0.1051	0.0194
23	72.4450	0.4750	4780.7100	904.9533	0.1098	0.0208
24	72.4575	0.4875	4982.1750	965.9670	0.1144	0.0222
25	72.4700	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	72.4825	0.5125	5439.5550	1095.8877	0.1249	0.0252
27	72.4950	0.5250	5695.4700	1165.4755	0.1308	0.0268
28	72.5075	0.5375	5951.3850	1238.2625	0.1366	0.0284
29	72.5200	0.5500	6207.3000	1314.2486	0.1425	0.0302
30	72.5325	0.5625	6463.2150	1393.4340	0.1484	0.0320
31	72.5450	0.5750	6719.1300	1475.8184	0.1542	0.0339
32	72.5575	0.5875	6975.0450	1561.4020	0.1601	0.0358
33	72.5700	0.6000	7230.9600	1650.1848	0.1660	0.0379
34	72.5950	0.6250	7824.4650	1838.3288	0.1796	0.0422
35	72.6200	0.6500	8417.9700	2041.3141	0.1932	0.0469
36	72.6450	0.6750	9011.4750	2259.1400	0.2069	0.0519
37	72.6700	0.7000	9604.9800	2491.8063	0.2205	0.0572
38	72.6950	0.7250	10198.4850	2739.3125	0.2341	0.0629
39	72.7200	0.7500	10791.9900	3001.6585	0.2478	0.0689
40	72.7450	0.7750	11385.4950	3278.8440	0.2614	0.0753
41	72.7700	0.8000	11979.0000	3570.8687	0.2750	0.0820
42	72.7950	0.8250	12567.0600	3877.6651	0.2885	0.0890
43	72.8200	0.8500	13155.1200	4199.1644	0.3020	0.0964
44	72.8450	0.8750	13743.1800	4535.3663	0.3155	0.1041
45	72.8700	0.9000	14331.2400	4886.2709	0.3290	0.1122
46	72.8950	0.9250	14919.3000	5251.8780	0.3425	0.1206
47	72.9200	0.9500	15507.3600	5632.1876	0.3560	0.1293
48	72.9450	0.9750	16095.4200	6027.1995	0.3695	0.1384
49	72.9700	1.0000	16683.4800	6436.9138	0.3830	0.1478
50	81.8400	9.8700	16683.4800	154419.3814	0.3830	3.5450

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| Variable storage data for node | A-2
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	73.9970	0.0000	4.3560	0.0000	0.0001	0.0000
2	74.0220	0.0250	150.8265	1.5068	0.0035	0.0000
3	74.0470	0.0500	297.2970	7.0058	0.0068	0.0002
4	74.0720	0.0750	443.7675	16.2082	0.0102	0.0004
5	74.0970	0.1000	590.2380	29.0898	0.0135	0.0007
6	74.1220	0.1250	736.7085	45.6428	0.0169	0.0010
7	74.1470	0.1500	883.1790	65.8638	0.0203	0.0015
8	74.1720	0.1750	1029.6495	89.7507	0.0236	0.0021
9	74.1970	0.2000	1176.1200	117.3026	0.0270	0.0027
10	74.2220	0.2250	1475.5950	150.3783	0.0339	0.0035
11	74.2470	0.2500	1775.0700	190.9540	0.0408	0.0044
12	74.2720	0.2750	2074.5450	239.0256	0.0476	0.0055
13	74.2970	0.3000	2374.0200	294.5906	0.0545	0.0068
14	74.3220	0.3250	2673.4950	357.6475	0.0614	0.0082
15	74.3470	0.3500	2972.9700	428.1952	0.0683	0.0098
16	74.3720	0.3750	3272.4450	506.2330	0.0751	0.0116
17	74.3970	0.4000	3571.9200	591.7602	0.0820	0.0136
18	74.4095	0.4125	3773.3850	637.6626	0.0866	0.0146
19	74.4220	0.4250	3974.8500	686.0836	0.0912	0.0158
20	74.4345	0.4375	4176.3150	737.0232	0.0959	0.0169
21	74.4470	0.4500	4377.7800	790.4814	0.1005	0.0181
22	74.4595	0.4625	4579.2450	846.4581	0.1051	0.0194
23	74.4720	0.4750	4780.7100	904.9533	0.1098	0.0208
24	74.4845	0.4875	4982.1750	965.9670	0.1144	0.0222
25	74.4970	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	74.5095	0.5125	5439.5550	1095.8877	0.1249	0.0252
27	74.5220	0.5250	5695.4700	1165.4755	0.1308	0.0268
28	74.5345	0.5375	5951.3850	1238.2625	0.1366	0.0284
29	74.5470	0.5500	6207.3000	1314.2486	0.1425	0.0302
30	74.5595	0.5625	6463.2150	1393.4340	0.1484	0.0320
31	74.5720	0.5750	6719.1300	1475.8184	0.1542	0.0339
32	74.5845	0.5875	6975.0450	1561.4020	0.1601	0.0358
33	74.5970	0.6000	7230.9600	1650.1848	0.1660	0.0379
34	74.6220	0.6250	7824.4650	1838.3288	0.1796	0.0422
35	74.6470	0.6500	8417.9700	2041.3141	0.1932	0.0469
36	74.6720	0.6750	9011.4750	2259.1400	0.2069	0.0519
37	74.6970	0.7000	9604.9800	2491.8063	0.2205	0.0572
38	74.7220	0.7250	10198.4850	2739.3125	0.2341	0.0629
39	74.7470	0.7500	10791.9900	3001.6585	0.2478	0.0689
40	74.7720	0.7750	11385.4950	3278.8440	0.2614	0.0753
41	74.7970	0.8000	11979.0000	3570.8687	0.2750	0.0820
42	74.8220	0.8250	12567.0600	3877.6651	0.2885	0.0890
43	74.8470	0.8500	13155.1200	4199.1644	0.3020	0.0964
44	74.8720	0.8750	13743.1800	4535.3663	0.3155	0.1041
45	74.8970	0.9000	14331.2400	4886.2709	0.3290	0.1122
46	74.9220	0.9250	14919.3000	5251.8780	0.3425	0.1206
47	74.9470	0.9500	15507.3600	5632.1876	0.3560	0.1293
48	74.9720	0.9750	16095.4200	6027.1995	0.3695	0.1384
49	74.9970	1.0000	16683.4800	6436.9138	0.3830	0.1478
50	81.6700	7.6730	16683.4800	117765.7759	0.3830	2.7035

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| Variable storage data for node | A-9
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	74.0300	0.0000	4.3560	0.0000	0.0001	0.0000
2	74.0550	0.0250	150.8265	1.5068	0.0035	0.0000
3	74.0800	0.0500	297.2970	7.0058	0.0068	0.0002
4	74.1050	0.0750	443.7675	16.2082	0.0102	0.0004
5	74.1300	0.1000	590.2380	29.0898	0.0135	0.0007
6	74.1550	0.1250	736.7085	45.6428	0.0169	0.0010
7	74.1800	0.1500	883.1790	65.8638	0.0203	0.0015
8	74.2050	0.1750	1029.6495	89.7507	0.0236	0.0021
9	74.2300	0.2000	1176.1200	117.3026	0.0270	0.0027
10	74.2550	0.2250	1475.5950	150.3783	0.0339	0.0035
11	74.2800	0.2500	1775.0700	190.9540	0.0408	0.0044
12	74.3050	0.2750	2074.5450	239.0256	0.0476	0.0055
13	74.3300	0.3000	2374.0200	294.5906	0.0545	0.0068
14	74.3550	0.3250	2673.4950	357.6475	0.0614	0.0082
15	74.3800	0.3500	2972.9700	428.1952	0.0683	0.0098
16	74.4050	0.3750	3272.4450	506.2330	0.0751	0.0116
17	74.4300	0.4000	3571.9200	591.7602	0.0820	0.0136
18	74.4425	0.4125	3773.3850	637.6626	0.0866	0.0146
19	74.4550	0.4250	3974.8500	686.0836	0.0912	0.0158
20	74.4675	0.4375	4176.3150	737.0232	0.0959	0.0169
21	74.4800	0.4500	4377.7800	790.4814	0.1005	0.0181
22	74.4925	0.4625	4579.2450	846.4581	0.1051	0.0194
23	74.5050	0.4750	4780.7100	904.9533	0.1098	0.0208
24	74.5175	0.4875	4982.1750	965.9670	0.1144	0.0222
25	74.5300	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	74.5425	0.5125	5439.5550	1095.8877	0.1249	0.0252
27	74.5550	0.5250	5695.4700	1165.4755	0.1308	0.0268
28	74.5675	0.5375	5951.3850	1238.2625	0.1366	0.0284
29	74.5800	0.5500	6207.3000	1314.2486	0.1425	0.0302
30	74.5925	0.5625	6463.2150	1393.4340	0.1484	0.0320
31	74.6050	0.5750	6719.1300	1475.8184	0.1542	0.0339
32	74.6175	0.5875	6975.0450	1561.4020	0.1601	0.0358
33	74.6300	0.6000	7230.9600	1650.1848	0.1660	0.0379
34	74.6550	0.6250	7824.4650	1838.3288	0.1796	0.0422
35	74.6800	0.6500	8417.9700	2041.3141	0.1932	0.0469
36	74.7050	0.6750	9011.4750	2259.1400	0.2069	0.0519
37	74.7300	0.7000	9604.9800	2491.8063	0.2205	0.0572
38	74.7550	0.7250	10198.4850	2739.3125	0.2341	0.0629
39	74.7800	0.7500	10791.9900	3001.6585	0.2478	0.0689
40	74.8050	0.7750	11385.4950	3278.8440	0.2614	0.0753
41	74.8300	0.8000	11979.0000	3570.8687	0.2750	0.0820
42	74.8550	0.8250	12567.0600	3877.6651	0.2885	0.0890
43	74.8800	0.8500	13155.1200	4199.1644	0.3020	0.0964
44	74.9050	0.8750	13743.1800	4535.3663	0.3155	0.1041
45	74.9300	0.9000	14331.2400	4886.2709	0.3290	0.1122
46	74.9550	0.9250	14919.3000	5251.8780	0.3425	0.1206
47	74.9800	0.9500	15507.3600	5632.1876	0.3560	0.1293
48	75.0050	0.9750	16095.4200	6027.1995	0.3695	0.1384
49	75.0300	1.0000	16683.4800	6436.9138	0.3830	0.1478
50	81.9000	7.8700	16683.4800	121052.4214	0.3830	2.7790

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| Variable storage data for node | A-8
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	74.6000	0.0000	4.3560	0.0000	0.0001	0.0000
2	74.6250	0.0250	150.8265	1.5068	0.0035	0.0000
3	74.6500	0.0500	297.2970	7.0058	0.0068	0.0002
4	74.6750	0.0750	443.7675	16.2082	0.0102	0.0004
5	74.7000	0.1000	590.2380	29.0898	0.0135	0.0007
6	74.7250	0.1250	736.7085	45.6428	0.0169	0.0010
7	74.7500	0.1500	883.1790	65.8638	0.0203	0.0015
8	74.7750	0.1750	1029.6495	89.7507	0.0236	0.0021
9	74.8000	0.2000	1176.1200	117.3026	0.0270	0.0027
10	74.8250	0.2250	1475.5950	150.3783	0.0339	0.0035
11	74.8500	0.2500	1775.0700	190.9540	0.0408	0.0044
12	74.8750	0.2750	2074.5450	239.0256	0.0476	0.0055
13	74.9000	0.3000	2374.0200	294.5906	0.0545	0.0068
14	74.9250	0.3250	2673.4950	357.6475	0.0614	0.0082
15	74.9500	0.3500	2972.9700	428.1952	0.0683	0.0098
16	74.9750	0.3750	3272.4450	506.2330	0.0751	0.0116
17	75.0000	0.4000	3571.9200	591.7602	0.0820	0.0136
18	75.0125	0.4125	3773.3850	637.6626	0.0866	0.0146
19	75.0250	0.4250	3974.8500	686.0836	0.0912	0.0158
20	75.0375	0.4375	4176.3150	737.0232	0.0959	0.0169
21	75.0500	0.4500	4377.7800	790.4814	0.1005	0.0181
22	75.0625	0.4625	4579.2450	846.4581	0.1051	0.0194
23	75.0750	0.4750	4780.7100	904.9533	0.1098	0.0208
24	75.0875	0.4875	4982.1750	965.9670	0.1144	0.0222
25	75.1000	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	75.1125	0.5125	5439.5550	1095.8877	0.1249	0.0252
27	75.1250	0.5250	5695.4700	1165.4755	0.1308	0.0268
28	75.1375	0.5375	5951.3850	1238.2625	0.1366	0.0284
29	75.1500	0.5500	6207.3000	1314.2486	0.1425	0.0302
30	75.1625	0.5625	6463.2150	1393.4340	0.1484	0.0320
31	75.1750	0.5750	6719.1300	1475.8184	0.1542	0.0339
32	75.1875	0.5875	6975.0450	1561.4020	0.1601	0.0358
33	75.2000	0.6000	7230.9600	1650.1848	0.1660	0.0379
34	75.2250	0.6250	7824.4650	1838.3288	0.1796	0.0422
35	75.2500	0.6500	8417.9700	2041.3141	0.1932	0.0469
36	75.2750	0.6750	9011.4750	2259.1400	0.2069	0.0519
37	75.3000	0.7000	9604.9800	2491.8063	0.2205	0.0572
38	75.3250	0.7250	10198.4850	2739.3125	0.2341	0.0629
39	75.3500	0.7500	10791.9900	3001.6585	0.2478	0.0689
40	75.3750	0.7750	11385.4950	3278.8440	0.2614	0.0753
41	75.4000	0.8000	11979.0000	3570.8687	0.2750	0.0820
42	75.4250	0.8250	12567.0600	3877.6651	0.2885	0.0890
43	75.4500	0.8500	13155.1200	4199.1644	0.3020	0.0964
44	75.4750	0.8750	13743.1800	4535.3663	0.3155	0.1041
45	75.5000	0.9000	14331.2400	4886.2709	0.3290	0.1122
46	75.5250	0.9250	14919.3000	5251.8780	0.3425	0.1206
47	75.5500	0.9500	15507.3600	5632.1876	0.3560	0.1293
48	75.5750	0.9750	16095.4200	6027.1995	0.3695	0.1384
49	75.6000	1.0000	16683.4800	6436.9138	0.3830	0.1478
50	81.7900	7.1900	16683.4800	109707.6550	0.3830	2.5185

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| Variable storage data for node | D-5A
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	67.9700	0.0000	4.3560	0.0000	0.0001	0.0000
2	67.9950	0.0250	150.8265	1.5068	0.0035	0.0000
3	68.0200	0.0500	297.2970	7.0058	0.0068	0.0002
4	68.0450	0.0750	443.7675	16.2082	0.0102	0.0004
5	68.0700	0.1000	590.2380	29.0898	0.0135	0.0007
6	68.0950	0.1250	736.7085	45.6428	0.0169	0.0010
7	68.1200	0.1500	883.1790	65.8638	0.0203	0.0015
8	68.1450	0.1750	1029.6495	89.7507	0.0236	0.0021
9	68.1700	0.2000	1176.1200	117.3026	0.0270	0.0027
10	68.1950	0.2250	1475.5950	150.3783	0.0339	0.0035
11	68.2200	0.2500	1775.0700	190.9540	0.0408	0.0044

12	68.2450	0.2750	2074.5450	239.0256	0.0476	0.0055
13	68.2700	0.3000	2374.0200	294.5906	0.0545	0.0068
14	68.2950	0.3250	2673.4950	357.6475	0.0614	0.0082
15	68.3200	0.3500	2972.9700	428.1952	0.0683	0.0098
16	68.3450	0.3750	3272.4450	506.2330	0.0751	0.0116
17	68.3700	0.4000	3571.9200	591.7602	0.0820	0.0136
18	68.3825	0.4125	3773.3850	637.6626	0.0866	0.0146
19	68.3950	0.4250	3974.8500	686.0836	0.0912	0.0158
20	68.4075	0.4375	4176.3150	737.0232	0.0959	0.0169
21	68.4200	0.4500	4377.7800	790.4814	0.1005	0.0181
22	68.4325	0.4625	4579.2450	846.4581	0.1051	0.0194
23	68.4450	0.4750	4780.7100	904.9533	0.1098	0.0208
24	68.4575	0.4875	4982.1750	965.9670	0.1144	0.0222
25	68.4700	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	68.4825	0.5125	5439.5550	1095.8877	0.1249	0.0252
27	68.4950	0.5250	5695.4700	1165.4755	0.1308	0.0268
28	68.5075	0.5375	5951.3850	1238.2625	0.1366	0.0284
29	68.5200	0.5500	6207.3000	1314.2486	0.1425	0.0302
30	68.5325	0.5625	6463.2150	1393.4340	0.1484	0.0320
31	68.5450	0.5750	6719.1300	1475.8184	0.1542	0.0339
32	68.5575	0.5875	6975.0450	1561.4020	0.1601	0.0358
33	68.5700	0.6000	7230.9600	1650.1848	0.1660	0.0379
34	68.5950	0.6250	7824.4650	1838.3288	0.1796	0.0422
35	68.6200	0.6500	8417.9700	2041.3141	0.1932	0.0469
36	68.6450	0.6750	9011.4750	2259.1400	0.2069	0.0519
37	68.6700	0.7000	9604.9800	2491.8063	0.2205	0.0572
38	68.6950	0.7250	10198.4850	2739.3125	0.2341	0.0629
39	68.7200	0.7500	10791.9900	3001.6585	0.2478	0.0689
40	68.7450	0.7750	11385.4950	3278.8440	0.2614	0.0753
41	68.7700	0.8000	11979.0000	3570.8687	0.2750	0.0820
42	68.7950	0.8250	12567.0600	3877.6651	0.2885	0.0890
43	68.8200	0.8500	13155.1200	4199.1644	0.3020	0.0964
44	68.8450	0.8750	13743.1800	4535.3663	0.3155	0.1041
45	68.8700	0.9000	14331.2400	4886.2709	0.3290	0.1122
46	68.8950	0.9250	14919.3000	5251.8780	0.3425	0.1206
47	68.9200	0.9500	15507.3600	5632.1876	0.3560	0.1293
48	68.9450	0.9750	16095.4200	6027.1995	0.3695	0.1384
49	68.9700	1.0000	16683.4800	6436.9138	0.3830	0.1478
50	76.5400	8.5700	16683.4800	132730.8574	0.3830	3.0471

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| Variable storage data for node | D-2
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	70.0610	0.0000	4.3560	0.0000	0.0001	0.0000
2	70.0860	0.0250	150.8265	1.5068	0.0035	0.0000
3	70.1110	0.0500	297.2970	7.0058	0.0068	0.0002
4	70.1360	0.0750	443.7675	16.2082	0.0102	0.0004
5	70.1610	0.1000	590.2380	29.0898	0.0135	0.0007
6	70.1860	0.1250	736.7085	45.6428	0.0169	0.0010
7	70.2110	0.1500	883.1790	65.8638	0.0203	0.0015
8	70.2360	0.1750	1029.6495	89.7507	0.0236	0.0021
9	70.2610	0.2000	1176.1200	117.3026	0.0270	0.0027
10	70.2860	0.2250	1475.5950	150.3783	0.0339	0.0035
11	70.3110	0.2500	1775.0700	190.9540	0.0408	0.0044
12	70.3360	0.2750	2074.5450	239.0256	0.0476	0.0055
13	70.3610	0.3000	2374.0200	294.5906	0.0545	0.0068
14	70.3860	0.3250	2673.4950	357.6475	0.0614	0.0082
15	70.4110	0.3500	2972.9700	428.1952	0.0683	0.0098
16	70.4360	0.3750	3272.4450	506.2330	0.0751	0.0116
17	70.4610	0.4000	3571.9200	591.7602	0.0820	0.0136
18	70.4735	0.4125	3773.3850	637.6626	0.0866	0.0146
19	70.4860	0.4250	3974.8500	686.0836	0.0912	0.0158
20	70.4985	0.4375	4176.3150	737.0232	0.0959	0.0169
21	70.5110	0.4500	4377.7800	790.4814	0.1005	0.0181
22	70.5235	0.4625	4579.2450	846.4581	0.1051	0.0194
23	70.5360	0.4750	4780.7100	904.9533	0.1098	0.0208
24	70.5485	0.4875	4982.1750	965.9670	0.1144	0.0222
25	70.5610	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	70.5735	0.5125	5439.5550	1095.8877	0.1249	0.0252
27	70.5860	0.5250	5695.4700	1165.4755	0.1308	0.0268
28	70.5985	0.5375	5951.3850	1238.2625	0.1366	0.0284
29	70.6110	0.5500	6207.3000	1314.2486	0.1425	0.0302
30	70.6235	0.5625	6463.2150	1393.4340	0.1484	0.0320
31	70.6360	0.5750	6719.1300	1475.8184	0.1542	0.0339
32	70.6485	0.5875	6975.0450	1561.4020	0.1601	0.0358
33	70.6610	0.6000	7230.9600	1650.1848	0.1660	0.0379
34	70.6860	0.6250	7824.4650	1838.3288	0.1796	0.0422
35	70.7110	0.6500	8417.9700	2041.3141	0.1932	0.0469
36	70.7360	0.6750	9011.4750	2259.1400	0.2069	0.0519
37	70.7610	0.7000	9604.9800	2491.8063	0.2205	0.0572
38	70.7860	0.7250	10198.4850	2739.3125	0.2341	0.0629
39	70.8110	0.7500	10791.9900	3001.6585	0.2478	0.0689
40	70.8360	0.7750	11385.4950	3278.8440	0.2614	0.0753
41	70.8610	0.8000	11979.0000	3570.8687	0.2750	0.0820
42	70.8860	0.8250	12567.0600	3877.6651	0.2885	0.0890
43	70.9110	0.8500	13155.1200	4199.1644	0.3020	0.0964
44	70.9360	0.8750	13743.1800	4535.3663	0.3155	0.1041
45	70.9610	0.9000	14331.2400	4886.2709	0.3290	0.1122
46	70.9860	0.9250	14919.3000	5251.8780	0.3425	0.1206
47	71.0110	0.9500	15507.3600	5632.1876	0.3560	0.1293
48	71.0360	0.9750	16095.4200	6027.1995	0.3695	0.1384
49	71.0610	1.0000	16683.4800	6436.9138	0.3830	0.1478
50	76.1900	6.1290	16683.4800	92006.4827	0.3830	2.1122

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| Variable storage data for node | D-2a
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	69.9850	0.0000	4.3560	0.0000	0.0001	0.0000
2	70.0100	0.0250	150.8265	1.5068	0.0035	0.0000
3	70.0350	0.0500	297.2970	7.0058	0.0068	0.0002
4	70.0600	0.0750	443.7675	16.2082	0.0102	0.0004
5	70.0850	0.1000	590.2380	29.0898	0.0135	0.0007
6	70.1100	0.1250	736.7085	45.6428	0.0169	0.0010
7	70.1350	0.1500	883.1790	65.8638	0.0203	0.0015
8	70.1600	0.1750	1029.6495	89.7507	0.0236	0.0021
9	70.1850	0.2000	1176.1200	117.3026	0.0270	0.0027
10	70.2100	0.2250	1475.5950	150.3783	0.0339	0.0035
11	70.2350	0.2500	1775.0700	190.9540	0.0408	0.0044
12	70.2600	0.2750	2074.5450	239.0256	0.0476	0.0055
13	70.2850	0.3000	2374.0200	294.5906	0.0545	0.0068
14	70.3100	0.3250	2673.4950	357.6475	0.0614	0.0082
15	70.3350	0.3500	2972.9700	428.1952	0.0683	0.0098
16	70.3600	0.3750	3272.4450	506.2330	0.0751	0.0116
17	70.3850	0.4000	3571.9200	591.7602	0.0820	0.0136
18	70.3975	0.4125	3773.3850	637.6626	0.0866	0.0146
19	70.4100	0.4250	3974.8500	686.0836	0.0912	0.0158
20	70.4225	0.4375	4176.3150	737.0232	0.0959	0.0169
21	70.4350	0.4500	4377.7800	790.4814	0.1005	0.0181
22	70.4475	0.4625	4579.2450	846.4581	0.1051	0.0194
23	70.4600	0.4750	4780.7100	904.9533	0.1098	0.0208
24	70.4725	0.4875	4982.1750	965.9670	0.1144	0.0222
25	70.4850	0.5000	5183.6400	1029.4991	0.1190	0.0236

26	70.4975	0.5125	5439.5550	1095.8877	0.1249	0.0252
27	70.5100	0.5250	5695.4700	1165.4755	0.1308	0.0268
28	70.5225	0.5375	5951.3850	1238.2625	0.1366	0.0284
29	70.5350	0.5500	6207.3000	1314.2486	0.1425	0.0302
30	70.5475	0.5625	6463.2150	1393.4340	0.1484	0.0320
31	70.5600	0.5750	6719.1300	1475.8184	0.1542	0.0339
32	70.5725	0.5875	6975.0450	1561.4020	0.1601	0.0358
33	70.5850	0.6000	7230.9600	1650.1848	0.1660	0.0379
34	70.6100	0.6250	7824.4650	1838.3288	0.1796	0.0422
35	70.6350	0.6500	8417.9700	2041.3141	0.1932	0.0469
36	70.6600	0.6750	9011.4750	2259.1400	0.2069	0.0519
37	70.6850	0.7000	9604.9800	2491.8063	0.2205	0.0572
38	70.7100	0.7250	10198.4850	2739.3125	0.2341	0.0629
39	70.7350	0.7500	10791.9900	3001.6585	0.2478	0.0689
40	70.7600	0.7750	11385.4950	3278.8440	0.2614	0.0753
41	70.7850	0.8000	11979.0000	3570.8687	0.2750	0.0820
42	70.8100	0.8250	12567.0600	3877.6651	0.2885	0.0890
43	70.8350	0.8500	13155.1200	4199.1644	0.3020	0.0964
44	70.8600	0.8750	13743.1800	4535.3663	0.3155	0.1041
45	70.8850	0.9000	14331.2400	4886.2709	0.3290	0.1122
46	70.9100	0.9250	14919.3000	5251.8780	0.3425	0.1206
47	70.9350	0.9500	15507.3600	5632.1876	0.3560	0.1293
48	70.9600	0.9750	16095.4200	6027.1995	0.3695	0.1384
49	70.9850	1.0000	16683.4800	6436.9138	0.3830	0.1478
50	76.4900	6.5050	16683.4800	98279.4712	0.3830	2.2562

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| Variable storage data for node | D-1
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	70.7590	0.0000	4.3560	0.0000	0.0001	0.0000
2	70.7840	0.0250	150.8265	1.5068	0.0035	0.0000
3	70.8090	0.0500	297.2970	7.0058	0.0068	0.0002
4	70.8340	0.0750	443.7675	16.2082	0.0102	0.0004
5	70.8590	0.1000	590.2380	29.0898	0.0135	0.0007
6	70.8840	0.1250	736.7085	45.6428	0.0169	0.0010
7	70.9090	0.1500	883.1790	65.8638	0.0203	0.0015
8	70.9340	0.1750	1029.6495	89.7507	0.0236	0.0021
9	70.9590	0.2000	1176.1200	117.3026	0.0270	0.0027
10	70.9840	0.2250	1475.5950	150.3783	0.0339	0.0035
11	71.0090	0.2500	1775.0700	190.9540	0.0408	0.0044
12	71.0340	0.2750	2074.5450	239.0256	0.0476	0.0055
13	71.0590	0.3000	2374.0200	294.5906	0.0545	0.0068
14	71.0840	0.3250	2673.4950	357.6475	0.0614	0.0082
15	71.1090	0.3500	2972.9700	428.1952	0.0683	0.0098
16	71.1340	0.3750	3272.4450	506.2330	0.0751	0.0116
17	71.1590	0.4000	3571.9200	591.7602	0.0820	0.0136
18	71.1715	0.4125	3773.3850	637.6626	0.0866	0.0146
19	71.1840	0.4250	3974.8500	686.0836	0.0912	0.0158
20	71.1965	0.4375	4176.3150	737.0232	0.0959	0.0169
21	71.2090	0.4500	4377.7800	790.4814	0.1005	0.0181
22	71.2215	0.4625	4579.2450	846.4581	0.1051	0.0194
23	71.2340	0.4750	4780.7100	904.9533	0.1098	0.0208
24	71.2465	0.4875	4982.1750	965.9670	0.1144	0.0222
25	71.2590	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	71.2715	0.5125	5439.5550	1095.8877	0.1249	0.0252
27	71.2840	0.5250	5695.4700	1165.4755	0.1308	0.0268
28	71.2965	0.5375	5951.3850	1238.2625	0.1366	0.0284
29	71.3090	0.5500	6207.3000	1314.2486	0.1425	0.0302
30	71.3215	0.5625	6463.2150	1393.4340	0.1484	0.0320
31	71.3340	0.5750	6719.1300	1475.8184	0.1542	0.0339
32	71.3465	0.5875	6975.0450	1561.4020	0.1601	0.0358
33	71.3590	0.6000	7230.9600	1650.1848	0.1660	0.0379
34	71.3840	0.6250	7824.4650	1838.3288	0.1796	0.0422
35	71.4090	0.6500	8417.9700	2041.3141	0.1932	0.0469
36	71.4340	0.6750	9011.4750	2259.1400	0.2069	0.0519
37	71.4590	0.7000	9604.9800	2491.8063	0.2205	0.0572
38	71.4840	0.7250	10198.4850	2739.3125	0.2341	0.0629
39	71.5090	0.7500	10791.9900	3001.6585	0.2478	0.0689
40	71.5340	0.7750	11385.4950	3278.8440	0.2614	0.0753
41	71.5590	0.8000	11979.0000	3570.8687	0.2750	0.0820
42	71.5840	0.8250	12567.0600	3877.6651	0.2885	0.0890
43	71.6090	0.8500	13155.1200	4199.1644	0.3020	0.0964
44	71.6340	0.8750	13743.1800	4535.3663	0.3155	0.1041
45	71.6590	0.9000	14331.2400	4886.2709	0.3290	0.1122
46	71.6840	0.9250	14919.3000	5251.8780	0.3425	0.1206
47	71.7090	0.9500	15507.3600	5632.1876	0.3560	0.1293
48	71.7340	0.9750	16095.4200	6027.1995	0.3695	0.1384
49	71.7590	1.0000	16683.4800	6436.9138	0.3830	0.1478
50	77.8500	7.0910	16683.4800	108055.9905	0.3830	2.4806

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| Variable storage data for node | D-3
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	68.9600	0.0000	4.3560	0.0000	0.0001	0.0000
2	68.9850	0.0250	150.8265	1.5068	0.0035	0.0000
3	69.0100	0.0500	297.2970	7.0058	0.0068	0.0002
4	69.0350	0.0750	443.7675	16.2082	0.0102	0.0004
5	69.0600	0.1000	590.2380	29.0898	0.0135	0.0007
6	69.0850	0.1250	736.7085	45.6428	0.0169	0.0010
7	69.1100	0.1500	883.1790	65.8638	0.0203	0.0015
8	69.1350	0.1750	1029.6495	89.7507	0.0236	0.0021
9	69.1600	0.2000	1176.1200	117.3026	0.0270	0.0027
10	69.1850	0.2250	1475.5950	150.3783	0.0339	0.0035
11	69.2100	0.2500	1775.0700	190.9540	0.0408	0.0044
12	69.2350	0.2750	2074.5450	239.0256	0.0476	0.0055
13	69.2600	0.3000	2374.0200	294.5906	0.0545	0.0068
14	69.2850	0.3250	2673.4950	357.6475	0.0614	0.0082
15	69.3100	0.3500	2972.9700	428.1952	0.0683	0.0098
16	69.3350	0.3750	3272.4450	506.2330	0.0751	0.0116
17	69.3600	0.4000	3571.9200	591.7602	0.0820	0.0136
18	69.3725	0.4125	3773.3850	637.6626	0.0866	0.0146
19	69.3850	0.4250	3974.8500	686.0836	0.0912	0.0158
20	69.3975	0.4375	4176.3150	737.0232	0.0959	0.0169
21	69.4100	0.4500	4377.7800	790.4814	0.1005	0.0181
22	69.4225	0.4625	4579.2450	846.4581	0.1051	0.0194
23	69.4350	0.4750	4780.7100	904.9533	0.1098	0.0208
24	69.4475	0.4875	4982.1750	965.9670	0.1144	0.0222
25	69.4600	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	69.4725	0.5125	5439.5550	1095.8877	0.1249	0.0252
27	69.4850	0.5250	5695.4700	1165.4755	0.1308	0.0268
28	69.4975	0.5375	5951.3850	1238.2625	0.1366	0.0284
29	69.5100	0.5500	6207.3000	1314.2486	0.1425	0.0302
30	69.5225	0.5625	6463.2150	1393.4340	0.1484	0.0320
31	69.5350	0.5750	6719.1300	1475.8184	0.1542	0.0339
32	69.5475	0.5875	6975.0450	1561.4020	0.1601	0.0358
33	69.5600	0.6000	7230.9600	1650.1848	0.1660	0.0379
34	69.5850	0.6250	7824.4650	1838.3288	0.1796	0.0422
35	69.6100	0.6500	8417.9700	2041.3141	0.1932	0.0469
36	69.6350	0.6750	9011.4750	2259.1400	0.2069	0.0519
37	69.6600	0.7000	9604.9800	2491.8063	0.2205	0.0572
38	69.6850	0.7250	10198.4850	2739.3125	0.2341	0.0629
39	69.7100	0.7500	10791.9900	3001.6585	0.2478	0.0689

40	69.7350	0.7750	11385.4950	3278.8440	0.2614	0.0753
41	69.7600	0.8000	11979.0000	3570.8687	0.2750	0.0820
42	69.7850	0.8250	12567.0600	3877.6651	0.2885	0.0890
43	69.8100	0.8500	13155.1200	4199.1644	0.3020	0.0964
44	69.8350	0.8750	13743.1800	4535.3663	0.3155	0.1041
45	69.8600	0.9000	14331.2400	4886.2709	0.3290	0.1122
46	69.8850	0.9250	14919.3000	5251.8780	0.3425	0.1206
47	69.9100	0.9500	15507.3600	5632.1876	0.3560	0.1293
48	69.9350	0.9750	16095.4200	6027.1995	0.3695	0.1384
49	69.9600	1.0000	16683.4800	6436.9138	0.3830	0.1478
50	78.9400	9.9800	16683.4800	156254.5642	0.3830	3.5871

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| Variable storage data for node | D-6
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	69.4100	0.0000	4.3560	0.0000	0.0001	0.0000
2	69.4350	0.0250	150.8265	1.5068	0.0035	0.0000
3	69.4600	0.0500	297.2970	7.0058	0.0068	0.0002
4	69.4850	0.0750	443.7675	16.2082	0.0102	0.0004
5	69.5100	0.1000	590.2380	29.0898	0.0135	0.0007
6	69.5350	0.1250	736.7085	45.6428	0.0169	0.0010
7	69.5600	0.1500	883.1790	65.8638	0.0203	0.0015
8	69.5850	0.1750	1029.6495	89.7507	0.0236	0.0021
9	69.6100	0.2000	1176.1200	117.3026	0.0270	0.0027
10	69.6350	0.2250	1475.5950	150.3783	0.0339	0.0035
11	69.6600	0.2500	1775.0700	190.9540	0.0408	0.0044
12	69.6850	0.2750	2074.5450	239.0256	0.0476	0.0055
13	69.7100	0.3000	2374.0200	294.5906	0.0545	0.0068
14	69.7350	0.3250	2673.4950	357.6475	0.0614	0.0082
15	69.7600	0.3500	2972.9700	428.1952	0.0683	0.0098
16	69.7850	0.3750	3272.4450	506.2330	0.0751	0.0116
17	69.8100	0.4000	3571.9200	591.7602	0.0820	0.0136
18	69.8225	0.4125	3773.3850	637.6626	0.0866	0.0146
19	69.8350	0.4250	3974.8500	686.0836	0.0912	0.0158
20	69.8475	0.4375	4176.3150	737.0232	0.0959	0.0169
21	69.8600	0.4500	4377.7800	790.4814	0.1005	0.0181
22	69.8725	0.4625	4579.2450	846.4581	0.1051	0.0194
23	69.8850	0.4750	4780.7100	904.9533	0.1098	0.0208
24	69.8975	0.4875	4982.1750	965.9670	0.1144	0.0222
25	69.9100	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	69.9225	0.5125	5439.5550	1095.8877	0.1249	0.0252
27	69.9350	0.5250	5695.4700	1165.4755	0.1308	0.0268
28	69.9475	0.5375	5951.3850	1238.2625	0.1366	0.0284
29	69.9600	0.5500	6207.3000	1314.2486	0.1425	0.0302
30	69.9725	0.5625	6463.2150	1393.4340	0.1484	0.0320
31	69.9850	0.5750	6719.1300	1475.8184	0.1542	0.0339
32	69.9975	0.5875	6975.0450	1561.4020	0.1601	0.0358
33	70.0100	0.6000	7230.9600	1650.1848	0.1660	0.0379
34	70.0350	0.6250	7824.4650	1838.3288	0.1796	0.0422
35	70.0600	0.6500	8417.9700	2041.3141	0.1932	0.0469
36	70.0850	0.6750	9011.4750	2259.1400	0.2069	0.0519
37	70.1100	0.7000	9604.9800	2491.8063	0.2205	0.0572
38	70.1350	0.7250	10198.4850	2739.3125	0.2341	0.0629
39	70.1600	0.7500	10791.9900	3001.6585	0.2478	0.0689
40	70.1850	0.7750	11385.4950	3278.8440	0.2614	0.0753
41	70.2100	0.8000	11979.0000	3570.8687	0.2750	0.0820
42	70.2350	0.8250	12567.0600	3877.6651	0.2885	0.0890
43	70.2600	0.8500	13155.1200	4199.1644	0.3020	0.0964
44	70.2850	0.8750	13743.1800	4535.3663	0.3155	0.1041
45	70.3100	0.9000	14331.2400	4886.2709	0.3290	0.1122
46	70.3350	0.9250	14919.3000	5251.8780	0.3425	0.1206
47	70.3600	0.9500	15507.3600	5632.1876	0.3560	0.1293
48	70.3850	0.9750	16095.4200	6027.1995	0.3695	0.1384
49	70.4100	1.0000	16683.4800	6436.9138	0.3830	0.1478
50	75.9100	6.5000	16683.4800	98196.0538	0.3830	2.2543

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| Variable storage data for node | D-7
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	70.0700	0.0000	4.3560	0.0000	0.0001	0.0000
2	70.0950	0.0250	150.8265	1.5068	0.0035	0.0000
3	70.1200	0.0500	297.2970	7.0058	0.0068	0.0002
4	70.1450	0.0750	443.7675	16.2082	0.0102	0.0004
5	70.1700	0.1000	590.2380	29.0898	0.0135	0.0007
6	70.1950	0.1250	736.7085	45.6428	0.0169	0.0010
7	70.2200	0.1500	883.1790	65.8638	0.0203	0.0015
8	70.2450	0.1750	1029.6495	89.7507	0.0236	0.0021
9	70.2700	0.2000	1176.1200	117.3026	0.0270	0.0027
10	70.2950	0.2250	1475.5950	150.3783	0.0339	0.0035
11	70.3200	0.2500	1775.0700	190.9540	0.0408	0.0044
12	70.3450	0.2750	2074.5450	239.0256	0.0476	0.0055
13	70.3700	0.3000	2374.0200	294.5906	0.0545	0.0068
14	70.3950	0.3250	2673.4950	357.6475	0.0614	0.0082
15	70.4200	0.3500	2972.9700	428.1952	0.0683	0.0098
16	70.4450	0.3750	3272.4450	506.2330	0.0751	0.0116
17	70.4700	0.4000	3571.9200	591.7602	0.0820	0.0136
18	70.4825	0.4125	3773.3850	637.6626	0.0866	0.0146
19	70.4950	0.4250	3974.8500	686.0836	0.0912	0.0158
20	70.5075	0.4375	4176.3150	737.0232	0.0959	0.0169
21	70.5200	0.4500	4377.7800	790.4814	0.1005	0.0181
22	70.5325	0.4625	4579.2450	846.4581	0.1051	0.0194
23	70.5450	0.4750	4780.7100	904.9533	0.1098	0.0208
24	70.5575	0.4875	4982.1750	965.9670	0.1144	0.0222
25	70.5700	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	70.5825	0.5125	5439.5550	1095.8877	0.1249	0.0252
27	70.5950	0.5250	5695.4700	1165.4755	0.1308	0.0268
28	70.6075	0.5375	5951.3850	1238.2625	0.1366	0.0284
29	70.6200	0.5500	6207.3000	1314.2486	0.1425	0.0302
30	70.6325	0.5625	6463.2150	1393.4340	0.1484	0.0320
31	70.6450	0.5750	6719.1300	1475.8184	0.1542	0.0339
32	70.6575	0.5875	6975.0450	1561.4020	0.1601	0.0358
33	70.6700	0.6000	7230.9600	1650.1848	0.1660	0.0379
34	70.6950	0.6250	7824.4650	1838.3288	0.1796	0.0422
35	70.7200	0.6500	8417.9700	2041.3141	0.1932	0.0469
36	70.7450	0.6750	9011.4750	2259.1400	0.2069	0.0519
37	70.7700	0.7000	9604.9800	2491.8063	0.2205	0.0572
38	70.7950	0.7250	10198.4850	2739.3125	0.2341	0.0629
39	70.8200	0.7500	10791.9900	3001.6585	0.2478	0.0689
40	70.8450	0.7750	11385.4950	3278.8440	0.2614	0.0753
41	70.8700	0.8000	11979.0000	3570.8687	0.2750	0.0820
42	70.8950	0.8250	12567.0600	3877.6651	0.2885	0.0890
43	70.9200	0.8500	13155.1200	4199.1644	0.3020	0.0964
44	70.9450	0.8750	13743.1800	4535.3663	0.3155	0.1041
45	70.9700	0.9000	14331.2400	4886.2709	0.3290	0.1122
46	70.9950	0.9250	14919.3000	5251.8780	0.3425	0.1206
47	71.0200	0.9500	15507.3600	5632.1876	0.3560	0.1293
48	71.0450	0.9750	16095.4200	6027.1995	0.3695	0.1384
49	71.0700	1.0000	16683.4800	6436.9138	0.3830	0.1478
50	76.4700	6.4000	16683.4800	96527.7058	0.3830	2.2160

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| Variable storage data for node | B-8

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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	71.1600	0.0000	4.3560	0.0000	0.0001	0.0000
2	71.1850	0.0250	150.8265	1.5068	0.0035	0.0000
3	71.2100	0.0500	297.2970	7.0058	0.0068	0.0002
4	71.2350	0.0750	443.7675	16.2082	0.0102	0.0004
5	71.2600	0.1000	590.2380	29.0898	0.0135	0.0007
6	71.2850	0.1250	736.7085	45.6428	0.0169	0.0010
7	71.3100	0.1500	883.1790	65.8638	0.0203	0.0015
8	71.3350	0.1750	1029.6495	89.7507	0.0236	0.0021
9	71.3600	0.2000	1176.1200	117.3026	0.0270	0.0027
10	71.3850	0.2250	1475.5950	150.3783	0.0339	0.0035
11	71.4100	0.2500	1775.0700	190.9540	0.0408	0.0044
12	71.4350	0.2750	2074.5450	239.0256	0.0476	0.0055
13	71.4600	0.3000	2374.0200	294.5906	0.0545	0.0068
14	71.4850	0.3250	2673.4950	357.6475	0.0614	0.0082
15	71.5100	0.3500	2972.9700	428.1952	0.0683	0.0098
16	71.5350	0.3750	3272.4450	506.2330	0.0751	0.0116
17	71.5600	0.4000	3571.9200	591.7602	0.0820	0.0136
18	71.5725	0.4125	3773.3850	637.6626	0.0866	0.0146
19	71.5850	0.4250	3974.8500	686.0836	0.0912	0.0158
20	71.5975	0.4375	4176.3150	737.0232	0.0959	0.0169
21	71.6100	0.4500	4377.7800	790.4814	0.1005	0.0181
22	71.6225	0.4625	4579.2450	846.4581	0.1051	0.0194
23	71.6350	0.4750	4780.7100	904.9533	0.1098	0.0208
24	71.6475	0.4875	4982.1750	965.9670	0.1144	0.0222
25	71.6600	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	71.6725	0.5125	5439.5550	1095.8877	0.1249	0.0252
27	71.6850	0.5250	5695.4700	1165.4755	0.1308	0.0268
28	71.6975	0.5375	5951.3850	1238.2625	0.1366	0.0284
29	71.7100	0.5500	6207.3000	1314.2486	0.1425	0.0302
30	71.7225	0.5625	6463.2150	1393.4340	0.1484	0.0320
31	71.7350	0.5750	6719.1300	1475.8184	0.1542	0.0339
32	71.7475	0.5875	6975.0450	1561.4020	0.1601	0.0358
33	71.7600	0.6000	7230.9600	1650.1848	0.1660	0.0379
34	71.7850	0.6250	7824.4650	1838.3288	0.1796	0.0422
35	71.8100	0.6500	8417.9700	2041.3141	0.1932	0.0469
36	71.8350	0.6750	9011.4750	2259.1400	0.2069	0.0519
37	71.8600	0.7000	9604.9800	2491.8063	0.2205	0.0572
38	71.8850	0.7250	10198.4850	2739.3125	0.2341	0.0629
39	71.9100	0.7500	10791.9900	3001.6585	0.2478	0.0689
40	71.9350	0.7750	11385.4950	3278.8440	0.2614	0.0753
41	71.9600	0.8000	11979.0000	3570.8687	0.2750	0.0820
42	71.9850	0.8250	12567.0600	3877.6651	0.2885	0.0890
43	72.0100	0.8500	13155.1200	4199.1644	0.3020	0.0964
44	72.0350	0.8750	13743.1800	4535.3663	0.3155	0.1041
45	72.0600	0.9000	14331.2400	4886.2709	0.3290	0.1122
46	72.0850	0.9250	14919.3000	5251.8780	0.3425	0.1206
47	72.1100	0.9500	15507.3600	5632.1876	0.3560	0.1293
48	72.1350	0.9750	16095.4200	6027.1995	0.3695	0.1384
49	72.1600	1.0000	16683.4800	6436.9138	0.3830	0.1478
50	81.0900	9.9300	16683.4800	155420.3902	0.3830	3.5680

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| Variable storage data for node \| B-4

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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	73.1470	0.0000	4.3560	0.0000	0.0001	0.0000
2	73.1720	0.0250	150.8265	1.5068	0.0035	0.0000
3	73.1970	0.0500	297.2970	7.0058	0.0068	0.0002
4	73.2220	0.0750	443.7675	16.2082	0.0102	0.0004
5	73.2470	0.1000	590.2380	29.0898	0.0135	0.0007
6	73.2720	0.1250	736.7085	45.6428	0.0169	0.0010
7	73.2970	0.1500	883.1790	65.8638	0.0203	0.0015
8	73.3220	0.1750	1029.6495	89.7507	0.0236	0.0021
9	73.3470	0.2000	1176.1200	117.3026	0.0270	0.0027
10	73.3720	0.2250	1475.5950	150.3783	0.0339	0.0035
11	73.3970	0.2500	1775.0700	190.9540	0.0408	0.0044
12	73.4220	0.2750	2074.5450	239.0256	0.0476	0.0055
13	73.4470	0.3000	2374.0200	294.5906	0.0545	0.0068
14	73.4720	0.3250	2673.4950	357.6475	0.0614	0.0082
15	73.4970	0.3500	2972.9700	428.1952	0.0683	0.0098
16	73.5220	0.3750	3272.4450	506.2330	0.0751	0.0116
17	73.5470	0.4000	3571.9200	591.7602	0.0820	0.0136
18	73.5595	0.4125	3773.3850	637.6626	0.0866	0.0146
19	73.5720	0.4250	3974.8500	686.0836	0.0912	0.0158
20	73.5845	0.4375	4176.3150	737.0232	0.0959	0.0169
21	73.5970	0.4500	4377.7800	790.4814	0.1005	0.0181
22	73.6095	0.4625	4579.2450	846.4581	0.1051	0.0194
23	73.6220	0.4750	4780.7100	904.9533	0.1098	0.0208
24	73.6345	0.4875	4982.1750	965.9670	0.1144	0.0222
25	73.6470	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	73.6595	0.5125	5439.5550	1095.8877	0.1249	0.0252
27	73.6720	0.5250	5695.4700	1165.4755	0.1308	0.0268
28	73.6845	0.5375	5951.3850	1238.2625	0.1366	0.0284
29	73.6970	0.5500	6207.3000	1314.2486	0.1425	0.0302
30	73.7095	0.5625	6463.2150	1393.4340	0.1484	0.0320
31	73.7220	0.5750	6719.1300	1475.8184	0.1542	0.0339
32	73.7345	0.5875	6975.0450	1561.4020	0.1601	0.0358
33	73.7470	0.6000	7230.9600	1650.1848	0.1660	0.0379
34	73.7720	0.6250	7824.4650	1838.3288	0.1796	0.0422
35	73.7970	0.6500	8417.9700	2041.3141	0.1932	0.0469
36	73.8220	0.6750	9011.4750	2259.1400	0.2069	0.0519
37	73.8470	0.7000	9604.9800	2491.8063	0.2205	0.0572
38	73.8720	0.7250	10198.4850	2739.3125	0.2341	0.0629
39	73.8970	0.7500	10791.9900	3001.6585	0.2478	0.0689
40	73.9220	0.7750	11385.4950	3278.8440	0.2614	0.0753
41	73.9470	0.8000	11979.0000	3570.8687	0.2750	0.0820
42	73.9720	0.8250	12567.0600	3877.6651	0.2885	0.0890
43	73.9970	0.8500	13155.1200	4199.1644	0.3020	0.0964
44	74.0220	0.8750	13743.1800	4535.3663	0.3155	0.1041
45	74.0470	0.9000	14331.2400	4886.2709	0.3290	0.1122
46	74.0720	0.9250	14919.3000	5251.8780	0.3425	0.1206
47	74.0970	0.9500	15507.3600	5632.1876	0.3560	0.1293
48	74.1220	0.9750	16095.4200	6027.1995	0.3695	0.1384
49	74.1470	1.0000	16683.4800	6436.9138	0.3830	0.1478
50	81.1700	8.0230	16683.4800	123604.9939	0.3830	2.8376

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| Variable storage data for node \| B-1

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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	73.5390	0.0000	4.3560	0.0000	0.0001	0.0000
2	73.5640	0.0250	150.8265	1.5068	0.0035	0.0000
3	73.5890	0.0500	297.2970	7.0058	0.0068	0.0002
4	73.6140	0.0750	443.7675	16.2082	0.0102	0.0004
5	73.6390	0.1000	590.2380	29.0898	0.0135	0.0007
6	73.6640	0.1250	736.7085	45.6428	0.0169	0.0010
7	73.6890	0.1500	883.1790	65.8638	0.0203	0.0015
8	73.7140	0.1750	1029.6495	89.7507	0.0236	0.0021
9	73.7390	0.2000	1176.1200	117.3026	0.0270	0.0027
10	73.7640	0.2250	1475.5950	150.3783	0.0339	0.0035

11	73.7890	0.2500	1775.0700	190.9540	0.0408	0.0044
12	73.8140	0.2750	2074.5450	239.0256	0.0476	0.0055
13	73.8390	0.3000	2374.0200	294.5906	0.0545	0.0068
14	73.8640	0.3250	2673.4950	357.6475	0.0614	0.0082
15	73.8890	0.3500	2972.9700	428.1952	0.0683	0.0098
16	73.9140	0.3750	3272.4450	506.2330	0.0751	0.0116
17	73.9390	0.4000	3571.9200	591.7602	0.0820	0.0136
18	73.9515	0.4125	3773.3850	637.6626	0.0866	0.0146
19	73.9640	0.4250	3974.8500	686.0836	0.0912	0.0158
20	73.9765	0.4375	4176.3150	737.0232	0.0959	0.0169
21	73.9890	0.4500	4377.7800	790.4814	0.1005	0.0181
22	74.0015	0.4625	4579.2450	846.4581	0.1051	0.0194
23	74.0140	0.4750	4780.7100	904.9533	0.1098	0.0208
24	74.0265	0.4875	4982.1750	965.9670	0.1144	0.0222
25	74.0390	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	74.0515	0.5125	5439.5550	1095.8877	0.1249	0.0252
27	74.0640	0.5250	5695.4700	1165.4755	0.1308	0.0268
28	74.0765	0.5375	5951.3850	1238.2625	0.1366	0.0284
29	74.0890	0.5500	6207.3000	1314.2486	0.1425	0.0302
30	74.1015	0.5625	6463.2150	1393.4340	0.1484	0.0320
31	74.1140	0.5750	6719.1300	1475.8184	0.1542	0.0339
32	74.1265	0.5875	6975.0450	1561.4020	0.1601	0.0358
33	74.1390	0.6000	7230.9600	1650.1848	0.1660	0.0379
34	74.1640	0.6250	7824.4650	1838.3288	0.1796	0.0422
35	74.1890	0.6500	8417.9700	2041.3141	0.1932	0.0469
36	74.2140	0.6750	9011.4750	2259.1400	0.2069	0.0519
37	74.2390	0.7000	9604.9800	2491.8063	0.2205	0.0572
38	74.2640	0.7250	10198.4850	2739.3125	0.2341	0.0629
39	74.2890	0.7500	10791.9900	3001.6585	0.2478	0.0689
40	74.3140	0.7750	11385.4950	3278.8440	0.2614	0.0753
41	74.3390	0.8000	11979.0000	3570.8687	0.2750	0.0820
42	74.3640	0.8250	12567.0600	3877.6651	0.2885	0.0890
43	74.3890	0.8500	13155.1200	4199.1644	0.3020	0.0964
44	74.4140	0.8750	13743.1800	4535.3663	0.3155	0.1041
45	74.4390	0.9000	14331.2400	4886.2709	0.3290	0.1122
46	74.4640	0.9250	14919.3000	5251.8780	0.3425	0.1206
47	74.4890	0.9500	15507.3600	5632.1876	0.3560	0.1293
48	74.5140	0.9750	16095.4200	6027.1995	0.3695	0.1384
49	74.5390	1.0000	16683.4800	6436.9138	0.3830	0.1478
50	81.6700	8.1310	16683.4800	125406.8097	0.3830	2.8789

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| Variable storage data for node | C-6
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	75.1560	0.0000	4.3560	0.0000	0.0001	0.0000
2	75.1810	0.0250	150.8265	1.5068	0.0035	0.0000
3	75.2060	0.0500	297.2970	7.0058	0.0068	0.0002
4	75.2310	0.0750	443.7675	16.2082	0.0102	0.0004
5	75.2560	0.1000	590.2380	29.0898	0.0135	0.0007
6	75.2810	0.1250	736.7085	45.6428	0.0169	0.0010
7	75.3060	0.1500	883.1790	65.8638	0.0203	0.0015
8	75.3310	0.1750	1029.6495	89.7507	0.0236	0.0021
9	75.3560	0.2000	1176.1200	117.3026	0.0270	0.0027
10	75.3810	0.2250	1475.5950	150.3783	0.0339	0.0035
11	75.4060	0.2500	1775.0700	190.9540	0.0408	0.0044
12	75.4310	0.2750	2074.5450	239.0256	0.0476	0.0055
13	75.4560	0.3000	2374.0200	294.5906	0.0545	0.0068
14	75.4810	0.3250	2673.4950	357.6475	0.0614	0.0082
15	75.5060	0.3500	2972.9700	428.1952	0.0683	0.0098
16	75.5310	0.3750	3272.4450	506.2330	0.0751	0.0116
17	75.5560	0.4000	3571.9200	591.7602	0.0820	0.0136
18	75.5685	0.4125	3773.3850	637.6626	0.0866	0.0146
19	75.5810	0.4250	3974.8500	686.0836	0.0912	0.0158
20	75.5935	0.4375	4176.3150	737.0232	0.0959	0.0169
21	75.6060	0.4500	4377.7800	790.4814	0.1005	0.0181
22	75.6185	0.4625	4579.2450	846.4581	0.1051	0.0194
23	75.6310	0.4750	4780.7100	904.9533	0.1098	0.0208
24	75.6435	0.4875	4982.1750	965.9670	0.1144	0.0222
25	75.6560	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	75.6685	0.5125	5439.5550	1095.8877	0.1249	0.0252
27	75.6810	0.5250	5695.4700	1165.4755	0.1308	0.0268
28	75.6935	0.5375	5951.3850	1238.2625	0.1366	0.0284
29	75.7060	0.5500	6207.3000	1314.2486	0.1425	0.0302
30	75.7185	0.5625	6463.2150	1393.4340	0.1484	0.0320
31	75.7310	0.5750	6719.1300	1475.8184	0.1542	0.0339
32	75.7435	0.5875	6975.0450	1561.4020	0.1601	0.0358
33	75.7560	0.6000	7230.9600	1650.1848	0.1660	0.0379
34	75.7810	0.6250	7824.4650	1838.3288	0.1796	0.0422
35	75.8060	0.6500	8417.9700	2041.3141	0.1932	0.0469
36	75.8310	0.6750	9011.4750	2259.1400	0.2069	0.0519
37	75.8560	0.7000	9604.9800	2491.8063	0.2205	0.0572
38	75.8810	0.7250	10198.4850	2739.3125	0.2341	0.0629
39	75.9060	0.7500	10791.9900	3001.6585	0.2478	0.0689
40	75.9310	0.7750	11385.4950	3278.8440	0.2614	0.0753
41	75.9560	0.8000	11979.0000	3570.8687	0.2750	0.0820
42	75.9810	0.8250	12567.0600	3877.6651	0.2885	0.0890
43	76.0060	0.8500	13155.1200	4199.1644	0.3020	0.0964
44	76.0310	0.8750	13743.1800	4535.3663	0.3155	0.1041
45	76.0560	0.9000	14331.2400	4886.2709	0.3290	0.1122
46	76.0810	0.9250	14919.3000	5251.8780	0.3425	0.1206
47	76.1060	0.9500	15507.3600	5632.1876	0.3560	0.1293
48	76.1310	0.9750	16095.4200	6027.1995	0.3695	0.1384
49	76.1560	1.0000	16683.4800	6436.9138	0.3830	0.1478
50	80.1500	4.9940	16683.4800	73070.7329	0.3830	1.6775

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| Variable storage data for node | C-2a
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	72.1070	0.0000	4.3560	0.0000	0.0001	0.0000
2	72.1320	0.0250	150.8265	1.5068	0.0035	0.0000
3	72.1570	0.0500	297.2970	7.0058	0.0068	0.0002
4	72.1820	0.0750	443.7675	16.2082	0.0102	0.0004
5	72.2070	0.1000	590.2380	29.0898	0.0135	0.0007
6	72.2320	0.1250	736.7085	45.6428	0.0169	0.0010
7	72.2570	0.1500	883.1790	65.8638	0.0203	0.0015
8	72.2820	0.1750	1029.6495	89.7507	0.0236	0.0021
9	72.3070	0.2000	1176.1200	117.3026	0.0270	0.0027
10	72.3320	0.2250	1475.5950	150.3783	0.0339	0.0035
11	72.3570	0.2500	1775.0700	190.9540	0.0408	0.0044
12	72.3820	0.2750	2074.5450	239.0256	0.0476	0.0055
13	72.4070	0.3000	2374.0200	294.5906	0.0545	0.0068
14	72.4320	0.3250	2673.4950	357.6475	0.0614	0.0082
15	72.4570	0.3500	2972.9700	428.1952	0.0683	0.0098
16	72.4820	0.3750	3272.4450	506.2330	0.0751	0.0116
17	72.5070	0.4000	3571.9200	591.7602	0.0820	0.0136
18	72.5195	0.4125	3773.3850	637.6626	0.0866	0.0146
19	72.5320	0.4250	3974.8500	686.0836	0.0912	0.0158
20	72.5445	0.4375	4176.3150	737.0232	0.0959	0.0169
21	72.5570	0.4500	4377.7800	790.4814	0.1005	0.0181
22	72.5695	0.4625	4579.2450	846.4581	0.1051	0.0194
23	72.5820	0.4750	4780.7100	904.9533	0.1098	0.0208
24	72.5945	0.4875	4982.1750	965.9670	0.1144	0.0222

25	72.6070	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	72.6195	0.5125	5439.5550	1095.8877	0.1249	0.0252
27	72.6320	0.5250	5695.4700	1165.4755	0.1308	0.0268
28	72.6445	0.5375	5951.3850	1238.2625	0.1366	0.0284
29	72.6570	0.5500	6207.3000	1314.2486	0.1425	0.0302
30	72.6695	0.5625	6463.2150	1393.4340	0.1484	0.0320
31	72.6820	0.5750	6719.1300	1475.8184	0.1542	0.0339
32	72.6945	0.5875	6975.0450	1561.4020	0.1601	0.0358
33	72.7070	0.6000	7230.9600	1650.1848	0.1660	0.0379
34	72.7320	0.6250	7824.4650	1838.3288	0.1796	0.0422
35	72.7570	0.6500	8417.9700	2041.3141	0.1932	0.0469
36	72.7820	0.6750	9011.4750	2259.1400	0.2069	0.0519
37	72.8070	0.7000	9604.9800	2491.8063	0.2205	0.0572
38	72.8320	0.7250	10198.4850	2739.3125	0.2341	0.0629
39	72.8570	0.7500	10791.9900	3001.6585	0.2478	0.0689
40	72.8820	0.7750	11385.4950	3278.8440	0.2614	0.0753
41	72.9070	0.8000	11979.0000	3570.8687	0.2750	0.0820
42	72.9320	0.8250	12567.0600	3877.6651	0.2885	0.0890
43	72.9570	0.8500	13155.1200	4199.1644	0.3020	0.0964
44	72.9820	0.8750	13743.1800	4535.3663	0.3155	0.1041
45	73.0070	0.9000	14331.2400	4886.2709	0.3290	0.1122
46	73.0320	0.9250	14919.3000	5251.8780	0.3425	0.1206
47	73.0570	0.9500	15507.3600	5632.1876	0.3560	0.1293
48	73.0820	0.9750	16095.4200	6027.1995	0.3695	0.1384
49	73.1070	1.0000	16683.4800	6436.9138	0.3830	0.1478
50	79.8500	7.7430	16683.4800	118933.6195	0.3830	2.7303

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| Variable storage data for node | C-2
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	72.3750	0.0000	4.3560	0.0000	0.0001	0.0000
2	72.4000	0.0250	150.8265	1.5068	0.0035	0.0000
3	72.4250	0.0500	297.2970	7.0058	0.0068	0.0002
4	72.4500	0.0750	443.7675	16.2082	0.0102	0.0004
5	72.4750	0.1000	590.2380	29.0898	0.0135	0.0007
6	72.5000	0.1250	736.7085	45.6428	0.0169	0.0010
7	72.5250	0.1500	883.1790	65.8638	0.0203	0.0015
8	72.5500	0.1750	1029.6495	89.7507	0.0236	0.0021
9	72.5750	0.2000	1176.1200	117.3026	0.0270	0.0027
10	72.6000	0.2250	1475.5950	150.3783	0.0339	0.0035
11	72.6250	0.2500	1775.0700	190.9540	0.0408	0.0044
12	72.6500	0.2750	2074.5450	239.0256	0.0476	0.0055
13	72.6750	0.3000	2374.0200	294.5906	0.0545	0.0068
14	72.7000	0.3250	2673.4950	357.6475	0.0614	0.0082
15	72.7250	0.3500	2972.9700	428.1952	0.0683	0.0098
16	72.7500	0.3750	3272.4450	506.2330	0.0751	0.0116
17	72.7750	0.4000	3571.9200	591.7602	0.0820	0.0136
18	72.7875	0.4125	3773.3850	637.6626	0.0866	0.0146
19	72.8000	0.4250	3974.8500	686.0836	0.0912	0.0158
20	72.8125	0.4375	4176.3150	737.0232	0.0959	0.0169
21	72.8250	0.4500	4377.7800	790.4814	0.1005	0.0181
22	72.8375	0.4625	4579.2450	846.4581	0.1051	0.0194
23	72.8500	0.4750	4780.7100	904.9533	0.1098	0.0208
24	72.8625	0.4875	4982.1750	965.9670	0.1144	0.0222
25	72.8750	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	72.8875	0.5125	5439.5550	1095.8877	0.1249	0.0252
27	72.9000	0.5250	5695.4700	1165.4755	0.1308	0.0268
28	72.9125	0.5375	5951.3850	1238.2625	0.1366	0.0284
29	72.9250	0.5500	6207.3000	1314.2486	0.1425	0.0302
30	72.9375	0.5625	6463.2150	1393.4340	0.1484	0.0320
31	72.9500	0.5750	6719.1300	1475.8184	0.1542	0.0339
32	72.9625	0.5875	6975.0450	1561.4020	0.1601	0.0358
33	72.9750	0.6000	7230.9600	1650.1848	0.1660	0.0379
34	73.0000	0.6250	7824.4650	1838.3288	0.1796	0.0422
35	73.0250	0.6500	8417.9700	2041.3141	0.1932	0.0469
36	73.0500	0.6750	9011.4750	2259.1400	0.2069	0.0519
37	73.0750	0.7000	9604.9800	2491.8063	0.2205	0.0572
38	73.1000	0.7250	10198.4850	2739.3125	0.2341	0.0629
39	73.1250	0.7500	10791.9900	3001.6585	0.2478	0.0689
40	73.1500	0.7750	11385.4950	3278.8440	0.2614	0.0753
41	73.1750	0.8000	11979.0000	3570.8687	0.2750	0.0820
42	73.2000	0.8250	12567.0600	3877.6651	0.2885	0.0890
43	73.2250	0.8500	13155.1200	4199.1644	0.3020	0.0964
44	73.2500	0.8750	13743.1800	4535.3663	0.3155	0.1041
45	73.2750	0.9000	14331.2400	4886.2709	0.3290	0.1122
46	73.3000	0.9250	14919.3000	5251.8780	0.3425	0.1206
47	73.3250	0.9500	15507.3600	5632.1876	0.3560	0.1293
48	73.3500	0.9750	16095.4200	6027.1995	0.3695	0.1384
49	73.3750	1.0000	16683.4800	6436.9138	0.3830	0.1478
50	78.9100	6.5350	16683.4800	98779.9756	0.3830	2.2677

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| Variable storage data for node | C-1
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	72.5100	0.0000	4.3560	0.0000	0.0001	0.0000
2	72.5350	0.0250	150.8265	1.5068	0.0035	0.0000
3	72.5600	0.0500	297.2970	7.0058	0.0068	0.0002
4	72.5850	0.0750	443.7675	16.2082	0.0102	0.0004
5	72.6100	0.1000	590.2380	29.0898	0.0135	0.0007
6	72.6350	0.1250	736.7085	45.6428	0.0169	0.0010
7	72.6600	0.1500	883.1790	65.8638	0.0203	0.0015
8	72.6850	0.1750	1029.6495	89.7507	0.0236	0.0021
9	72.7100	0.2000	1176.1200	117.3026	0.0270	0.0027
10	72.7350	0.2250	1475.5950	150.3783	0.0339	0.0035
11	72.7600	0.2500	1775.0700	190.9540	0.0408	0.0044
12	72.7850	0.2750	2074.5450	239.0256	0.0476	0.0055
13	72.8100	0.3000	2374.0200	294.5906	0.0545	0.0068
14	72.8350	0.3250	2673.4950	357.6475	0.0614	0.0082
15	72.8600	0.3500	2972.9700	428.1952	0.0683	0.0098
16	72.8850	0.3750	3272.4450	506.2330	0.0751	0.0116
17	72.9100	0.4000	3571.9200	591.7602	0.0820	0.0136
18	72.9225	0.4125	3773.3850	637.6626	0.0866	0.0146
19	72.9350	0.4250	3974.8500	686.0836	0.0912	0.0158
20	72.9475	0.4375	4176.3150	737.0232	0.0959	0.0169
21	72.9600	0.4500	4377.7800	790.4814	0.1005	0.0181
22	72.9725	0.4625	4579.2450	846.4581	0.1051	0.0194
23	72.9850	0.4750	4780.7100	904.9533	0.1098	0.0208
24	72.9975	0.4875	4982.1750	965.9670	0.1144	0.0222
25	73.0100	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	73.0225	0.5125	5439.5550	1095.8877	0.1249	0.0252
27	73.0350	0.5250	5695.4700	1165.4755	0.1308	0.0268
28	73.0475	0.5375	5951.3850	1238.2625	0.1366	0.0284
29	73.0600	0.5500	6207.3000	1314.2486	0.1425	0.0302
30	73.0725	0.5625	6463.2150	1393.4340	0.1484	0.0320
31	73.0850	0.5750	6719.1300	1475.8184	0.1542	0.0339
32	73.0975	0.5875	6975.0450	1561.4020	0.1601	0.0358
33	73.1100	0.6000	7230.9600	1650.1848	0.1660	0.0379
34	73.1350	0.6250	7824.4650	1838.3288	0.1796	0.0422
35	73.1600	0.6500	8417.9700	2041.3141	0.1932	0.0469
36	73.1850	0.6750	9011.4750	2259.1400	0.2069	0.0519
37	73.2100	0.7000	9604.9800	2491.8063	0.2205	0.0572
38	73.2350	0.7250	10198.4850	2739.3125	0.2341	0.0629

39	73.2600	0.7500	10791.9900	3001.6585	0.2478	0.0689
40	73.2850	0.7750	11385.4950	3278.8440	0.2614	0.0753
41	73.3100	0.8000	11979.0000	3570.8687	0.2750	0.0820
42	73.3350	0.8250	12567.0600	3877.6651	0.2885	0.0890
43	73.3600	0.8500	13155.1200	4199.1644	0.3020	0.0964
44	73.3850	0.8750	13743.1800	4535.3663	0.3155	0.1041
45	73.4100	0.9000	14331.2400	4886.2709	0.3290	0.1122
46	73.4350	0.9250	14919.3000	5251.8780	0.3425	0.1206
47	73.4600	0.9500	15507.3600	5632.1876	0.3560	0.1293
48	73.4850	0.9750	16095.4200	6027.1995	0.3695	0.1384
49	73.5100	1.0000	16683.4800	6436.9138	0.3830	0.1478
50	78.5100	6.0000	16683.4800	89854.3138	0.3830	2.0628

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| Variable storage data for node | B-7A
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	72.9800	0.0000	87.1200	0.0000	0.0020	0.0000
2	73.2925	0.3125	2254.2300	290.0529	0.0517	0.0067
3	73.6050	0.6250	4421.3400	1314.2800	0.1015	0.0302
4	73.9175	0.9375	6588.4500	3023.3416	0.1512	0.0694
5	74.2300	1.2500	8755.5600	5412.8324	0.2010	0.1243
6	74.5425	1.5625	10922.6700	8481.3218	0.2508	0.1947
7	74.8550	1.8750	13089.7800	12228.1635	0.3005	0.2807
8	75.1675	2.1875	15256.8900	16653.0098	0.3502	0.3823
9	75.4800	2.5000	17424.0000	21755.6525	0.4000	0.4994
10	79.8100	6.8300	17424.0000	97201.5725	0.4000	2.2314

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| Variable storage data for node | POND4B
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	69.2100	0.0000	43.5600	0.0000	0.0010	0.0000
2	69.3087	0.0988	2428.4700	92.0770	0.0558	0.0021
3	69.4075	0.1975	4813.3800	442.9946	0.1105	0.0102
4	69.5062	0.2963	7198.2900	1032.1350	0.1652	0.0237
5	69.6050	0.3950	9583.2000	1857.9177	0.2200	0.0427
6	69.7037	0.4938	11968.1100	2919.8351	0.2747	0.0670
7	69.8025	0.5925	14353.0200	4217.6589	0.3295	0.0968
8	69.9012	0.6913	16737.9300	5751.2669	0.3842	0.1320
9	70.0000	0.7900	19122.8400	7520.5858	0.4390	0.1726
10	70.1250	0.9150	19531.2150	9936.4193	0.4484	0.2281
11	70.2500	1.0400	19939.5900	12403.3006	0.4577	0.2847
12	70.3750	1.1650	20347.9650	14921.2297	0.4671	0.3425
13	70.5000	1.2900	20756.3400	17490.2064	0.4765	0.4015
14	70.6250	1.4150	21164.7150	20110.2309	0.4859	0.4617
15	70.7500	1.5400	21573.0900	22781.3031	0.4952	0.5230
16	70.8750	1.6650	21981.4650	25503.4229	0.5046	0.5855
17	71.0000	1.7900	22389.8400	28276.5903	0.5140	0.6491
18	71.1250	1.9150	22819.9950	31102.1624	0.5239	0.7140
19	71.2500	2.0400	23250.1500	33981.5046	0.5337	0.7801
20	71.3750	2.1650	23680.3050	36914.6170	0.5436	0.8474
21	71.5000	2.2900	24110.4600	39901.4994	0.5535	0.9160
22	71.6250	2.4150	24540.6150	42942.1520	0.5634	0.9858
23	71.7500	2.5400	24970.7700	46036.5746	0.5733	1.0569
24	71.8750	2.6650	25400.9250	49184.7673	0.5831	1.1291
25	72.0000	2.7900	25831.0800	52386.7300	0.5930	1.2026
26	72.1250	2.9150	26277.5700	55643.4808	0.6032	1.2774
27	72.2500	3.0400	26724.0600	58956.9435	0.6135	1.3534
28	72.3750	3.1650	27170.5500	62324.4181	0.6238	1.4308
29	72.5000	3.2900	27617.0400	65748.6045	0.6340	1.5094
30	72.6250	3.4150	28063.5300	69228.6029	0.6442	1.5893
31	72.7500	3.5400	28510.0200	72764.4130	0.6545	1.6704
32	72.8750	3.6650	28956.5100	76356.0350	0.6648	1.7529
33	73.0000	3.7900	29403.0000	80003.4688	0.6750	1.8366
34	73.1250	3.9150	29871.2700	83708.0722	0.6858	1.9217
35	73.2500	4.0400	30339.5400	87471.2099	0.6965	2.0081
36	73.3750	4.1650	30807.8100	91292.8819	0.7073	2.0958
37	73.5000	4.2900	31276.0800	95173.0882	0.7180	2.1849
38	73.6250	4.4150	31744.3500	99111.8288	0.7288	2.2753
39	73.7500	4.5400	32212.6200	103109.1037	0.7395	2.3671
40	73.8750	4.6650	32680.8900	107164.9129	0.7502	2.4602
41	74.0000	4.7900	33149.1600	111279.2563	0.7610	2.5546
42	74.1250	4.9150	33628.3200	115452.8130	0.7720	2.6504
43	74.2500	5.0400	34107.4800	119686.2652	0.7830	2.7476
44	74.3750	5.1650	34586.6400	123979.6129	0.7940	2.8462
45	74.5000	5.2900	35065.8000	128332.8561	0.8050	2.9461
46	74.6250	5.4150	35544.9600	132745.9947	0.8160	3.0474
47	74.7500	5.5400	36024.1200	137219.0288	0.8270	3.1501
48	74.8750	5.6650	36503.2800	141751.9583	0.8380	3.2542
49	75.0000	5.7900	36982.4400	146344.7833	0.8490	3.3596
50	75.1250	5.9150	37488.8250	150999.2015	0.8606	3.4665
51	75.2500	6.0400	37995.2100	155716.9183	0.8722	3.5748
52	75.3750	6.1650	38501.5950	160497.9337	0.8839	3.6845
53	75.5000	6.2900	39007.9800	165342.2476	0.8955	3.7957
54	75.6250	6.4150	39514.3650	170249.8602	0.9071	3.9084
55	75.7500	6.5400	40020.7500	175220.7713	0.9187	4.0225
56	75.8750	6.6650	40527.1350	180254.9809	0.9304	4.1381
57	76.0000	6.7900	41033.5200	185352.4891	0.9420	4.2551
58	76.1250	6.9150	41556.2400	190514.3147	0.9540	4.3736
59	76.2500	7.0400	42078.9600	195741.4806	0.9660	4.4936
60	76.3750	7.1650	42601.6800	201033.9870	0.9780	4.6151
61	76.5000	7.2900	43124.4000	206391.8338	0.9900	4.7381
62	76.6250	7.4150	43647.1200	211815.0210	1.0020	4.8626
63	76.7500	7.5400	44169.8400	217303.5486	1.0140	4.9886
64	76.8750	7.6650	44692.5600	222857.4166	1.0260	5.1161
65	77.0000	7.7900	45215.2800	228476.6249	1.0380	5.2451
66	77.1250	7.9150	45759.7800	234162.5322	1.0505	5.3756
67	77.2500	8.0400	46304.2800	239916.5024	1.0630	5.5077
68	77.3750	8.1650	46848.7800	245738.5355	1.0755	5.6414
69	77.5000	8.2900	47393.2800	251628.6315	1.0880	5.7766
70	77.6250	8.4150	47937.7800	257586.7903	1.1005	5.9134
71	77.7500	8.5400	48482.2800	263613.0121	1.1130	6.0517
72	77.8750	8.6650	49026.7800	269707.2966	1.1255	6.1916
73	78.0000	8.7900	49571.2800	275869.6441	1.1380	6.3331
74	82.0000	12.7900	49571.2800	474154.7641	1.1380	10.8851

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| Variable storage data for node | POND4A
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	70.1800	0.0000	43.5600	0.0000	0.0010	0.0000
2	70.2825	0.1025	24943.5450	889.3405	0.5726	0.0204
3	70.3850	0.2050	49843.5300	4649.2855	1.1442	0.1067
4	70.4875	0.3075	74743.5150	10991.4306	1.7159	0.2523
5	70.5900	0.4100	99643.5000	19898.2400	2.2875	0.4568
6	70.6925	0.5125	124543.4850	31364.1270	2.8591	0.7200
7	70.7950	0.6150	149443.4700	45386.5893	3.4307	1.0419
8	70.8975	0.7175	174343.4550	61964.2887	4.0024	1.4225
9	71.0000	0.8200	199243.4400	81096.4255	4.5740	1.8617
10	71.1250	0.9450	200147.3100	106058.3261	4.5947	2.4348
11	71.2500	1.0700	201051.1800	131133.2105	4.6155	3.0104

12	71.3750	1.1950	201955.0500	156321.0787	4.6363	3.5886
13	71.5000	1.3200	202858.9200	181621.9308	4.6570	4.1695
14	71.6250	1.4450	203762.7900	207035.7668	4.6777	4.7529
15	71.7500	1.5700	204666.6600	232562.5866	4.6985	5.3389
16	71.8750	1.6950	205570.5300	258202.3902	4.7193	5.9275
17	72.0000	1.8200	206474.4000	283955.1777	4.7400	6.5187
18	72.1250	1.9450	207427.2750	309824.0095	4.7619	7.1126
19	72.2500	2.0700	208380.1500	335811.9508	4.7838	7.7092
20	72.3750	2.1950	209333.0250	361919.0016	4.8056	8.3085
21	72.5000	2.3200	210285.9000	388145.1619	4.8275	8.9106
22	72.6250	2.4450	211238.7750	414490.4316	4.8494	9.5154
23	72.7500	2.5700	212191.6500	440954.8109	4.8712	10.1229
24	72.8750	2.6950	213144.5250	467538.2996	4.8931	10.7332
25	73.0000	2.8200	214097.4000	494240.8977	4.9150	11.3462
26	73.1250	2.9450	215050.2750	521062.6054	4.9369	11.9620
27	73.2500	3.0700	216003.1500	548003.4225	4.9588	12.5804
28	73.3750	3.1950	216956.0250	575063.3491	4.9806	13.2016
29	73.5000	3.3200	217908.9000	602242.3852	5.0025	13.8256
30	73.6250	3.4450	218861.7750	629540.5307	5.0244	14.4523
31	73.7500	3.5700	219814.6500	656957.7857	5.0462	15.0817
32	73.8750	3.6950	220767.5250	684494.1502	5.0681	15.7138
33	74.0000	3.8200	221720.4000	712149.6241	5.0900	16.3487
34	74.1250	3.9450	222700.5000	739925.9078	5.1125	16.9864
35	74.2500	4.0700	223680.6000	767824.7042	5.1350	17.6268
36	74.3750	4.1950	224660.7000	795846.0131	5.1575	18.2701
37	74.5000	4.3200	225640.8000	823989.8346	5.1800	18.9162
38	74.6250	4.4450	226620.9000	852256.1688	5.2025	19.5651
39	74.7500	4.5700	227601.0000	880645.0155	5.2250	20.2168
40	74.8750	4.6950	228581.1000	909156.3748	5.2475	20.8714
41	75.0000	4.8200	229561.2000	937790.2467	5.2700	21.5287
42	75.1250	4.9450	230541.3000	966546.6312	5.2925	22.1889
43	75.2500	5.0700	231521.4000	995425.5283	5.3150	22.8518
44	75.3750	5.1950	232501.5000	1.024427E+06	5.3375	23.5176
45	75.5000	5.3200	233481.6000	1.053551E+06	5.3600	24.1862
46	75.6250	5.4450	234461.7000	1.082797E+06	5.3825	24.8576
47	75.7500	5.5700	235441.8000	1.112166E+06	5.4050	25.5318
48	75.8750	5.6950	236421.9000	1.141658E+06	5.4275	26.2089
49	76.0000	5.8200	237402.0000	1.171272E+06	5.4500	26.8887
50	76.1250	5.9450	238409.3250	1.201010E+06	5.4731	27.5714
51	76.2500	6.0700	239416.6500	1.230874E+06	5.4962	28.2570
52	76.3750	6.1950	240423.9750	1.260864E+06	5.5194	28.9455
53	76.5000	6.3200	241431.3000	1.290980E+06	5.5425	29.6368
54	76.6250	6.4450	242438.6250	1.321222E+06	5.5656	30.3311
55	76.7500	6.5700	243445.9500	1.351590E+06	5.5888	31.0282
56	76.8750	6.6950	244453.2750	1.382083E+06	5.6119	31.7283
57	77.0000	6.8200	245460.6000	1.412703E+06	5.6350	32.4312
58	77.1250	6.9450	246467.9250	1.443448E+06	5.6581	33.1370
59	77.2500	7.0700	247475.2500	1.474320E+06	5.6813	33.8457
60	77.3750	7.1950	248482.5750	1.505317E+06	5.7044	34.5573
61	77.5000	7.3200	249489.9000	1.536440E+06	5.7275	35.2718
62	77.6250	7.4450	250497.2250	1.567690E+06	5.7506	35.9892
63	77.7500	7.5700	251504.5500	1.599065E+06	5.7737	36.7095
64	77.8750	7.6950	252511.8750	1.630566E+06	5.7969	37.4326
65	78.0000	7.8200	253519.2000	1.662193E+06	5.8200	38.1587
66	78.1250	7.9450	254553.7500	1.693947E+06	5.8438	38.8877
67	78.2500	8.0700	255588.3000	1.725831E+06	5.8675	39.6196
68	78.3750	8.1950	256622.8500	1.757844E+06	5.8913	40.3545
69	78.5000	8.3200	257657.4000	1.789987E+06	5.9150	41.0924
70	78.6250	8.4450	258691.9500	1.822258E+06	5.9387	41.8333
71	78.7500	8.5700	259726.5000	1.854660E+06	5.9625	42.5771
72	78.8750	8.6950	260761.0500	1.887190E+06	5.9863	43.3239
73	79.0000	8.8200	261795.6000	1.919850E+06	6.0100	44.0737
74	79.1250	8.9450	262868.2650	1.952641E+06	6.0346	44.8265
75	79.2500	9.0700	263940.9300	1.985567E+06	6.0592	45.5823
76	79.3750	9.1950	265013.5950	2.018626E+06	6.0839	46.3413
77	79.5000	9.3200	266086.2600	2.051820E+06	6.1085	47.1033
78	79.6250	9.4450	267158.9250	2.085148E+06	6.1331	47.8684
79	79.7500	9.5700	268231.5900	2.118610E+06	6.1578	48.6366
80	79.8750	9.6950	269304.2550	2.152206E+06	6.1824	49.4078
81	80.0000	9.8200	270376.9200	2.185936E+06	6.2070	50.1822
82	82.0000	11.8200	270376.9200	2.726690E+06	6.2070	62.5962

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| Variable storage data for node | POND4D
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	70.4600	0.0000	4.3560	0.0000	0.0001	0.0000
2	70.5287	0.0688	7136.7615	167.6912	0.1638	0.0038
3	70.5975	0.1375	14269.1670	889.5042	0.3276	0.0204
4	70.6662	0.2063	21401.5725	2107.4320	0.4913	0.0484
5	70.7350	0.2750	28533.9780	3818.0999	0.6550	0.0877
6	70.8037	0.3438	35666.3835	6020.4336	0.8188	0.1382
7	70.8725	0.4125	42798.7890	8713.9518	0.9825	0.2000
8	70.9412	0.4813	49931.1945	11898.3973	1.1463	0.2731
9	71.0100	0.5500	57063.6000	15573.6164	1.3100	0.3575
10	71.1350	0.6750	57771.4500	22750.7615	1.3262	0.5223
11	71.2600	0.8000	58479.3000	30016.3885	1.3425	0.6891
12	71.3850	0.9250	59187.1500	37370.4973	1.3588	0.8579
13	71.5100	1.0500	59895.0000	44813.0878	1.3750	1.0288
14	71.6350	1.1750	60602.8500	52344.1601	1.3912	1.2017
15	71.7600	1.3000	61310.7000	59963.7142	1.4075	1.3766
16	71.8850	1.4250	62018.5500	67671.7500	1.4238	1.5535
17	72.0100	1.5500	62726.4000	75468.2676	1.4400	1.7325
18	72.1350	1.6750	63434.2500	83353.2668	1.4563	1.9135
19	72.2600	1.8000	64142.1000	91326.7478	1.4725	2.0966
20	72.3850	1.9250	64849.9500	99388.7104	1.4888	2.2817
21	72.5100	2.0500	65557.8000	107539.1548	1.5050	2.4688
22	72.6350	2.1750	66265.6500	115778.0808	1.5212	2.6579
23	72.7600	2.3000	66973.5000	124105.4885	1.5375	2.8491
24	72.8850	2.4250	67681.3500	132521.3779	1.5537	3.0423
25	73.0100	2.5500	68389.2000	141025.7489	1.5700	3.2375
26	73.1350	2.6750	69097.0500	149618.6016	1.5862	3.4348
27	73.2600	2.8000	69804.9000	158299.9359	1.6025	3.6341
28	73.3850	2.9250	70512.7500	167069.7518	1.6187	3.8354
29	73.5100	3.0500	71220.6000	175928.0493	1.6350	4.0388
30	73.6350	3.1750	71928.4500	184874.8285	1.6513	4.2441
31	73.7600	3.3000	72636.3000	193910.0893	1.6675	4.4516
32	73.8850	3.4250	73344.1500	203033.8316	1.6837	4.6610
33	74.0100	3.5500	74052.0000	212246.0556	1.7000	4.8725
34	74.1350	3.6750	74814.3000	221550.1587	1.7175	5.0861
35	74.2600	3.8000	75576.6000	230949.5497	1.7350	5.3019
36	74.3850	3.9250	76338.9000	240444.2286	1.7525	5.5198
37	74.5100	4.0500	77101.2000	250034.1954	1.7700	5.7400
38	74.6350	4.1750	77863.5000	259719.4501	1.7875	5.9623
39	74.7600	4.3000	78625.8000	269499.9927	1.8050	6.1869
40	74.8850	4.4250	79388.1000	279375.8231	1.8225	6.4136
41	75.0100	4.5500	80150.4000	289346.9414	1.8400	6.6425
42	75.1350	4.6750	80912.7000	299413.3476	1.8575	6.8736
43	75.2600	4.8000	81675.0000	309575.0416	1.8750	7.1069
44	75.3850	4.9250	82437.3000	319832.0235	1.8925	7.3423
45	75.5100	5.0500	83199.6000	330184.2932	1.9100	7.5800
46	75.6350	5.1750	83961.9000	340631.8507	1.9275	7.8198
47	75.7600	5.3000	84724.2000	351174.6961	1.9450	8.0619
48	75.8850	5.4250	85486.5000	361812.8293	1.9625	8.3061
49	76.0100	5.5500	86248.8000	372546.2503	1.9800	8.5525
50	76.1350	5.6750	87011.1000	383374.9591	1.9975	8.8011

51	76.2600	5.8000	87773.4000	394298.9557	2.0150	9.0519
52	76.3850	5.9250	88535.7000	405318.2401	2.0325	9.3048
53	76.5100	6.0500	89298.0000	416432.8123	2.0500	9.5600
54	76.6350	6.1750	90060.3000	427642.6723	2.0675	9.8173
55	76.7600	6.3000	90822.6000	438947.8201	2.0850	10.0769
56	76.8850	6.4250	91584.9000	450348.2557	2.1025	10.3386
57	77.0100	6.5500	92347.2000	461843.9790	2.1200	10.6025
58	77.1350	6.6750	93163.9500	473438.3884	2.1387	10.8686
59	77.2600	6.8000	93980.7000	485134.8919	2.1575	11.1372
60	77.3850	6.9250	94797.4500	496933.4895	2.1763	11.4080
61	77.5100	7.0500	95614.2000	508834.1811	2.1950	11.6812
62	77.6350	7.1750	96430.9500	520836.9668	2.2138	11.9568
63	77.7600	7.3000	97247.7000	532941.8466	2.2325	12.2347
64	77.8850	7.4250	98064.4500	545148.8204	2.2513	12.5149
65	78.0100	7.5500	98881.2000	557457.8882	2.2700	12.7975
66	78.1350	7.6750	99643.5000	569865.6515	2.2875	13.0823
67	78.2600	7.8000	100405.8000	582368.7025	2.3050	13.3693
68	78.3850	7.9250	101168.1000	594967.0412	2.3225	13.6586
69	78.5100	8.0500	101930.4000	607660.6676	2.3400	13.9500
70	78.6350	8.1750	102692.7000	620449.5818	2.3575	14.2436
71	78.7600	8.3000	103455.0000	633333.7837	2.3750	14.5393
72	78.8850	8.4250	104217.3000	646313.2733	2.3925	14.8373
73	79.0100	8.5500	104979.6000	659388.0506	2.4100	15.1375
74	82.5000	12.0400	104979.6000	1.025767E+06	2.4100	23.5484

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*================================================*
|          FREE OUTFALL DATA (DATA GROUP I1)     |
|         BOUNDARY CONDITION ON DATA GROUP J1    |
*================================================*

Outfall at Junction....E11504.2         has boundary condition number...         1
Outfall at Junction....E11504.1         has boundary condition number...         2
Outfall at Junction....E11504.3         has boundary condition number...         3

===> Warning !!  Outfall Junction E11504.3         has two or more connecting conduits.


*================================================*
|        INTERNAL CONNECTIVITY INFORMATION       |
*================================================*

         CONDUIT          JUNCTION          JUNCTION
---------------- ---------------- ----------------
        FREE # 1          E11504.2          BOUNDARY
        FREE # 2          E11504.1          BOUNDARY
        FREE # 3          E11504.3          BOUNDARY

*================================================*
|        Boundary Condition Information          |
|                Data Groups J1-J4               |
*================================================*



*================================================*
|             XP Note Field Summary              |
*================================================*


*================================================*
|         Table E9 - JUNCTION SUMMARY STATISTICS         |
| The Maximum area is only the area of the node, it      |
| does not include the area of the surrounding conduits  |
*================================================*
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Junction Name	Ground Elevation feet	Uppermost PipeCrown Elevation feet	Maximum Junction Elevation feet	Time of Occurence Hr.	Min.	Feet of Surcharge at Max Elevation	Freeboard of node feet	Maximum Junction Area ft^2	Maximum Gutter Depth feet	Maximum Gutter Width feet	Maximum Gutter Velocity ft/s
C-4a	80.0000	74.9000	82.1247	18	4	7.2247	0.0000	41851.111	0.0000	0.0000	0.0000
MHI-108	80.0000	76.3800	82.0853	18	2	5.7053	0.0000	40235.211	0.0000	0.0000	0.0000
MHI-109	80.8000	74.5500	81.9121	17	16	7.3621	0.0000	15204.432	0.0000	0.0000	0.0000
E11504.2	81.6300	74.5200	81.9200	16	44	7.4000	0.0000	12.5660	0.0000	0.0000	0.0000
E11504.1	80.5000	75.9200	82.2400	16	44	6.3200	0.0000	12.5660	0.0000	0.0000	0.0000
A102	80.5000	76.3800	82.4723	16	48	6.0923	0.0000	35934.155	0.0000	0.0000	0.0000
MH-9	77.1900	73.9400	78.5158	17	15	4.5758	0.0000	12.5660	0.0000	0.0000	0.0000
MH-11	75.2700	71.6800	77.0584	16	55	5.3784	0.0000	12.5660	0.0000	0.0000	0.0000
MH-10	77.8100	73.3300	77.8485	17	9	4.5185	0.0000	12.5660	0.0000	0.0000	0.0000
E11504.3	76.8100	71.4700	76.4300	16	44	4.9600	0.3800	12.5660	0.0000	0.0000	0.0000
A-11	82.1900	77.9170	82.8481	16	51	4.9311	0.0000	9655.6220	0.0000	0.0000	0.0000
J-A-5	81.6200	78.3800	83.0648	16	49	4.6848	0.0000	21204.679	0.0000	0.0000	0.0000
A-12	81.7900	77.5600	82.8099	16	51	5.2499	0.0000	16683.480	0.0000	0.0000	0.0000
J-A-10	82.8300	78.1000	83.0221	16	48	4.9221	0.0000	6058.8001	0.0000	0.0000	0.0000
A-3	81.6700	77.3510	83.2902	16	45	5.9392	0.0000	16683.480	0.0000	0.0000	0.0000
A-5	81.6700	78.2780	83.1033	16	44	4.8253	0.0000	16683.480	0.0000	0.0000	0.0000
CNT-01	81.8300	77.3400	86.1460	17	41	8.8060	0.0000	374429.61	0.0000	0.0000	0.0000
J-A-12	82.7300	77.2900	82.6825	16	58	5.3925	0.0475	12.5660	0.0000	0.0000	0.0000
A-10	81.9300	78.4400	83.3559	16	45	4.9159	0.0000	16683.480	0.0000	0.0000	0.0000
J-A-2	82.3800	77.6490	83.4109	16	45	5.7619	0.0000	14018.013	0.0000	0.0000	0.0000
A-13	81.8400	76.9700	82.5239	17	12	5.5539	0.0000	9222.3786	0.0000	0.0000	0.0000
J-A-9	82.7700	78.1770	83.5473	16	44	5.3703	0.0000	10877.905	0.0000	0.0000	0.0000
A-2	81.6700	77.9970	83.5494	16	43	5.5524	0.0000	16683.480	0.0000	0.0000	0.0000
A-9	81.9000	78.5300	83.7612	16	46	5.2312	0.0000	16683.480	0.0000	0.0000	0.0000
A-1	82.7500	78.3860	83.5752	16	43	5.1892	0.0000	11412.110	0.0000	0.0000	0.0000
J-A-8	82.6900	78.8400	83.8195	16	47	4.9795	0.0000	15470.199	0.0000	0.0000	0.0000
A-8	81.7900	78.6000	83.9044	16	47	5.3044	0.0000	16683.480	0.0000	0.0000	0.0000
BNGL03	76.6700	72.4100	78.9513	17	21	6.5413	0.0000	12.5660	0.0000	0.0000	0.0000
D-5A	76.5400	71.9700	78.9773	17	22	7.0073	0.0000	16683.480	0.0000	0.0000	0.0000
BNGL02	76.7200	73.3730	79.1427	17	18	5.7697	0.0000	12.5660	0.0000	0.0000	0.0000
D-5	77.9800	72.2600	79.2473	17	39	6.9873	0.0000	17756.188	0.0000	0.0000	0.0000
D-2	76.1900	73.0610	79.1703	17	18	6.1093	0.0000	16683.480	0.0000	0.0000	0.0000
BNGL01	77.8300	72.0400	79.3049	17	14	7.2649	0.0000	21853.226	0.0000	0.0000	0.0000
D-2a	76.4900	73.4850	79.1574	17	18	5.6724	0.0000	16683.480	0.0000	0.0000	0.0000
J-D-5	79.9900	72.9700	79.7966	18	4	6.8266	0.1934	12.5660	0.0000	0.0000	0.0000
D-1	77.8500	73.7590	79.1772	17	19	5.4182	0.0000	16683.480	0.0000	0.0000	0.0000
D-3	78.9400	72.9600	80.2722	18	11	7.3122	0.0000	16683.480	0.0000	0.0000	0.0000
D-3a	80.0500	73.1900	80.5932	18	12	7.4032	0.0000	12.5660	0.0000	0.0000	0.0000
MH-8	77.1200	73.4200	78.8025	17	19	5.3825	0.0000	12.5660	0.0000	0.0000	0.0000
J-D-6a	76.5200	72.8400	78.8136	17	19	5.9736	0.0000	12.5660	0.0000	0.0000	0.0000
D-6	75.9100	72.9100	78.8234	17	19	5.9134	0.0000	16683.480	0.0000	0.0000	0.0000
D-7	76.4700	73.0700	78.8400	17	20	5.7700	0.0000	16683.480	0.0000	0.0000	0.0000
B-6	81.4700	76.9140	82.1778	17	46	5.2638	0.0000	10147.774	0.0000	0.0000	0.0000
B-8	81.0900	76.1600	82.2090	17	37	6.0490	0.0000	16683.480	0.0000	0.0000	0.0000
J-B-3	81.6500	77.1800	82.4018	17	29	5.2218	0.0000	10604.209	0.0000	0.0000	0.0000
B-9	81.8900	76.3800	82.2909	17	25	5.9109	0.0000	7465.5763	0.0000	0.0000	0.0000
B-2	81.6700	76.8500	82.4188	17	29	5.5688	0.0000	10572.265	0.0000	0.0000	0.0000
B-4	81.1700	76.1470	82.4096	17	28	6.2626	0.0000	16683.480	0.0000	0.0000	0.0000
CNT-02	80.5000	76.1900	82.5481	17	26	6.3581	0.0000	38767.047	0.0000	0.0000	0.0000
J-B-2	81.6700	77.2390	82.4788	17	29	5.2398	0.0000	11226.362	0.0000	0.0000	0.0000
B-1	81.6700	77.5390	82.5238	17	28	4.9848	0.0000	13243.435	0.0000	0.0000	0.0000
C-3	80.7600	77.0500	82.1741	18	1	5.1241	0.0000	20563.188	0.0000	0.0000	0.0000
C-6	80.1500	77.1560	82.1751	18	2	5.0191	0.0000	16683.480	0.0000	0.0000	0.0000
C-2a	79.8500	75.1070	82.2294	17	54	7.1224	0.0000	16683.480	0.0000	0.0000	0.0000
C-2	78.9100	75.3750	82.2768	17	50	6.9018	0.0000	16683.480	0.0000	0.0000	0.0000
C-1	78.5100	75.5100	82.3002	17	48	6.7902	0.0000	16683.480	0.0000	0.0000	0.0000
B-7A	79.8100	74.9800	82.6156	16	53	7.6356	0.0000	17424.000	0.0000	0.0000	0.0000

C-4	80.1000	75.1400	82.1390	18	8	6.9990	0.0000	38412.819	0.0000	0.0000	0.0000
POND4B	82.0000	73.2100	79.7968	18	4	6.5868	2.2032	49571.280	0.0000	0.0000	0.0000
POND4A	82.0000	74.1800	81.9739	18	25	7.7939	0.0261	270376.92	0.0000	0.0000	0.0000
Node386	82.1900	76.7900	82.8203	16	51	6.0303	0.0000	9390.4867	0.0000	0.0000	0.0000
POND4D	82.5000	76.5700	82.1348	17	55	5.5648	0.3652	104979.60	0.0000	0.0000	0.0000
B-10	81.7900	75.9330	82.1504	17	52	6.2174	0.0000	7169.2998	0.0000	0.0000	0.0000

Table E10 - CONDUIT SUMMARY STATISTICS

Note: The peak flow may be less than the design flow and the conduit may still surcharge because of the downstream boundary conditions.

* denotes an open conduit that has been overtopped this is a potential source of severe errors

Conduit Name	Design Flow (cfs)	Conduit Design Velocity (ft/s)	Maximum Vertical Depth (in)	Maximum Computed Flow (cfs)	Time of Occurence Hr.	Time of Occurence Min.	Maximum Computed Velocity (ft/s)	Time of Occurence Hr.	Time of Occurence Min.	Ratio of Max. to Design Flow	Maximum Water Elev at Pipe Ends Upstream (ft)	Maximum Water Elev at Pipe Ends Dwnstrm (ft)	Ratio d/D US	Ratio d/D DS
L-MHI-107	69.1705	5.5044	48.0000	74.0020	15	50	5.8692	15	50	1.0699	82.1247	82.0853	2.816	2.926
L-MHI-108	191.3572	5.4673	60.0000	133.4457	19	41	3.7897	19	41	0.6974	82.0853	81.9121	2.341	2.472
E11504_2	162.6977	4.6485	60.0000	143.9398	19	56	4.0872	19	56	0.8847	81.9121	81.9200	2.472	2.480
E11504_1	277.9986	6.9500	60.0000	200.2842	16	4	4.9841	16	4	0.7205	82.4723	82.2400	2.218	2.264
L_L-A-11	353.3337	7.3611	72.0000	244.5868	16	1	5.0826	16	1	0.6922	83.0648	82.8481	1.781	1.840
L_L-A-11A	188.2381	4.7060	60.0000	237.1551	15	47	5.9163	15	47	1.2599	82.8481	82.8099	2.036	2.050
L_L-A-11B	82.4419	4.1987	60.0000	95.9950	16	0	4.8694	16	0	1.1644	83.0221	82.8481	1.984	1.986
L_L-A-3	97.9084	4.0795	48.0000	122.4665	16	5	5.0753	16	1	1.2508	83.2902	83.0648	2.485	2.481
L_L-A-5	45.0083	4.6781	42.0000	18.3117	16	5	1.8910	16	5	0.4069	83.1033	83.0648	2.379	2.590
L_L-J-A-5	63.6453	5.0647	48.0000	130.4524	15	44	10.3124	15	44	2.0497	86.1460	83.0648	3.201	2.671
L_L-A-12	193.2703	4.8318	60.0000	258.7606	15	47	6.4558	15	47	1.3389	82.8099	82.6825	2.050	2.079
L_L-J-A-10	82.0460	4.1786	60.0000	96.0237	16	0	4.8702	16	0	1.1704	83.3559	83.0221	1.983	1.984
L_L-J-A-2	97.8923	4.0788	48.0000	73.8916	16	59	3.0632	15	59	0.7548	83.4109	83.2902	2.440	2.485
L_L-J-A-12	193.0532	4.8263	60.0000	277.2213	15	48	6.9137	15	48	1.4360	82.6826	82.5239	2.079	2.111
L_L-A-10	61.8875	3.8912	54.0000	64.9200	15	48	4.0667	15	48	1.0490	83.5473	83.3559	2.193	2.204
L_L-J-A-9	62.3326	3.9192	54.0000	71.2072	15	48	4.4603	15	48	1.1424	83.7612	83.5473	2.162	2.193
L_L-A-1	98.0151	4.0840	48.0000	75.4998	18	42	3.1287	18	42	0.7703	83.5752	83.5494	2.297	2.388
L_L-A-9	61.9863	3.8975	54.0000	50.1011	15	48	3.1380	15	48	0.8083	83.8195	83.7612	2.107	2.162
L_L-A-8	45.7076	3.6373	48.0000	48.9461	15	48	3.8737	15	48	1.0709	83.9044	83.8195	2.326	2.370
L_L-D-5A	57.8356	3.6147	48.0000	111.9449	21	24	8.9741	23	15	1.9356	78.9773	78.9513	2.752	2.753
L_L-BNGL03	153.0141	5.1005	60.0000	157.4055	15	59	5.2291	15	59	1.0287	79.1428	78.9513	2.237	2.308
L_L-D-5	58.0834	3.6302	48.0000	112.2570	19	23	7.0237	23	49	1.9327	79.2473	78.9773	2.747	2.752
L_L-D-2	21.0965	2.9845	36.0000	21.6666	15	56	3.0450	15	56	1.0270	79.1703	79.1427	3.036	3.090
L_L-BNGL01	51.0253	4.0605	48.0000	113.2018	16	13	8.9266	16	13	2.2185	79.3049	79.1427	2.816	2.796
L_L-BNGL02	31.7974	3.3050	42.0000	35.0649	15	59	3.6247	15	59	1.1028	79.1574	79.1427	2.621	2.648
L_L-J-D-5	57.5737	3.5984	48.0000	111.8679	21	24	6.9663	21	24	1.9430	79.7966	79.2473	2.784	2.747
L_L-D-2A	21.1084	2.9862	36.0000	15.0757	16	15	2.3960	15	26	0.7142	79.1772	79.1574	2.806	2.891
L_L-D-3	57.9323	3.6208	48.0000	96.8297	23	5	6.0422	23	5	1.6714	80.2722	79.7966	2.828	2.784
L_L-D-3A	58.9784	3.6862	48.0000	96.7993	23	5	6.0372	23	5	1.6413	80.5932	80.2722	2.851	2.828
L_L-J-D-6A	30.7982	3.2011	42.0000	33.7502	15	59	3.4888	15	59	1.0958	78.8136	78.8025	2.707	2.726
L_L-D-6	30.7507	3.1962	42.0000	33.7771	15	59	3.4915	15	59	1.0984	78.8234	78.8136	2.690	2.707
L_L-D-7	21.0302	2.9752	36.0000	18.1956	16	4	2.5557	16	4	0.8652	78.8400	78.8234	2.923	2.971
L_L-J-B-3	130.0782	4.3359	60.0000	200.4767	16	9	6.6621	16	9	1.5412	82.4018	82.1778	2.044	2.053
L_L-B-9	189.8215	4.7455	60.0000	310.1037	15	47	7.7419	15	47	1.6337	82.2909	82.2090	2.182	2.210
L_L-B-2	62.1517	3.9079	54.0000	52.9780	16	15	3.3119	16	15	0.8524	82.4188	82.4018	2.238	2.269
L_L-B-4	33.3331	4.7157	36.0000	25.2688	16	15	3.5382	16	15	0.7581	82.4096	82.4018	3.088	3.204
L_L-CNT-02	26.2256	2.0870	48.0000	131.3666	16	32	10.3597	16	32	5.0091	82.5481	82.4018	2.590	2.555
L_L-J-B-2	45.4072	3.6134	48.0000	39.3761	16	15	3.2660	15	31	0.8672	82.4788	82.4188	2.310	2.393
L_L-B-1	45.4585	3.6175	48.0000	39.3899	16	15	3.4790	15	37	0.8665	82.5238	82.4788	2.246	2.311
L_L-C-3	7.1562	2.2779	24.0000	8.1492	16	0	3.2154	15	43	1.1388	82.1751	82.1741	3.510	3.562
L_L-C-2A	39.4363	3.2864	36.0000	58.8359	15	50	4.8783	15	50	1.4919	82.2294	82.1741	3.374	3.451
L_L-C-2	26.8322	2.9814	36.0000	29.1583	15	49	3.2234	15	49	1.0867	82.2768	82.2294	3.301	3.374
Link322	251.6923	5.2436	72.0000	419.2721	16	34	8.7016	16	34	1.6658	82.1348	82.0853	1.946	1.951
Link323	15.9965	5.0918	24.0000	39.3527	15	51	12.3466	15	51	2.4601	82.6156	82.1348	4.818	4.842
L-C4	10.1170	3.2204	24.0000	15.0692	16	9	4.7224	16	9	1.4895	82.1390	82.1247	4.499	4.612
L-C-4A	55.6328	4.4271	48.0000	65.0424	15	49	5.1583	15	49	1.1691	82.1741	82.1247	2.701	2.816
L-C-1	21.1291	2.9892	36.0000	17.4108	15	49	2.4475	15	49	0.8240	82.3002	82.2768	3.263	3.301
L-BNGL03	133.3508	4.4450	60.0000	151.9092	18	2	5.0276	18	2	1.1392	78.9513	78.8025	2.502	2.499
L-A102	157.3310	3.9333	60.0000	188.4633	16	4	4.6901	16	4	1.1979	82.8481	82.8203	2.208	2.206
L-POND4B	104.8672	6.5542	48.0000	-63.5171	15	59	-3.9637	15	59	-0.6057	79.7968	79.7966	2.647	2.707
L-A-2	98.5856	4.1077	48.0000	73.9394	16	59	3.0658	16	59	0.7500	83.5494	83.4109	2.388	2.441
Link335	193.7324	4.8433	60.0000	300.1313	15	48	7.4881	15	48	1.5492	82.5239	82.2909	2.111	2.182
Link339	138.7452	4.3358	48.0000	446.4738	16	33	13.8469	16	33	3.2179	82.0853	81.9739	2.926	2.948
Link340	58.7106	4.8926	36.0000	96.7946	23	5	8.0098	23	5	1.6487	81.9739	80.5932	3.931	3.801
Link342	201.4820	5.0370	60.0000	188.4316	16	4	4.6894	16	4	0.9352	82.8203	82.4723	2.206	2.218
L-B-10	193.5448	4.8386	60.0000	321.0370	15	48	8.0206	15	48	1.6587	82.2090	82.1504	2.210	2.243
Link344	192.6903	4.8173	60.0000	331.5766	15	46	8.4249	15	46	1.7208	82.1504	82.1348	2.243	2.255
Link345	293.8909	9.7964	60.0000	212.7153	16	9	8.9298	15	34	0.7238	82.1778	82.1348	2.054	2.113
Link347	20.5086	4.1780	30.0000	25.5299	15	47	5.1664	15	47	1.2448	83.1033	82.6825	3.333	3.445
Link348	45.4240	3.6147	48.0000	28.8661	15	45	2.2929	15	45	0.6355	83.5494	83.5473	2.388	2.468
948.1	106.1922	4.4697	66.0000	159.5336	16	0	6.6841	16	0	1.5023	78.5158	77.8485	2.252	2.192
948.2	28.2515	3.9968	36.0000	31.7068	16	59	4.4699	16	59	1.1223	78.5158	77.8485	2.525	2.506
952.1	106.1922	4.4697	66.0000	159.4589	16	0	6.6844	16	0	1.5016	77.8485	77.0584	2.192	2.125
952.2	41.8054	5.9143	36.0000	31.7262	16	0	4.4731	16	0	0.7589	77.8485	77.0584	2.506	2.793
1062.1	106.1922	4.4697	66.0000	215.5688	16	2	9.0392	16	2	2.0300	77.0584	76.4300	2.125	2.049
36"	21.0919	2.9839	36.0000	42.8822	16	1	6.0358	16	1	2.0331	77.0584	76.4300	2.793	2.653
1063.1	106.1922	4.4697	66.0000	146.6929	18	3	6.1276	18	4	1.3814	78.8025	78.5158	2.271	2.252
24" RCP	22.3744	7.1220	24.0000	19.1033	18	3	5.9849	18	3	0.8538	78.8025	78.5158	3.691	3.788
FREE # 1	Undefnd	Undefnd	Undefn	143.9447	19	56								
FREE # 2	Undefnd	Undefnd	Undefn	200.2842	16	4								
FREE # 3	Undefnd	Undefnd	Undefn	258.4568	16	2								

Table E15 - SPREADSHEET INFO LIST

Conduit Flow and Junction Depth Information for use in spreadsheets. The maximum values in this table are the true maximum values because they sample every time step. The values in the review results may only be the maximum of a subset of all the time steps in the run.

Note: These flows are only the flows in a single barrel.

Conduit Name	Maximum Flow (cfs)	Total Flow (ft^3)	Maximum Velocity (ft/s)	Maximum Volume (ft^3)	##	Junction Name	Invert Elevation (ft)	Maximum Elevation (ft)
L-MHI-107	74.0020	655174.1189	5.8692	2726.9401	##	C-4a	70.8600	82.1247
L-MHI-108	133.4457	2004776.329	3.7897	21154.6007	##	MHI-108	70.3800	82.0853
E11504_2	143.9398	2042582.297	4.0872	1060.4483	##	MHI-109	69.5500	81.9121
E11504_1	200.2842	2100375.248	4.9841	8895.8688	##	E11504.2	69.5200	81.9200
L_L-A-11	244.5868	3089157.448	5.0826	13592.8297	##	E11504.1	70.9200	82.2400
L_L-A-11A	237.1551	1884929.590	5.9163	4634.8052	##	A102	71.3800	82.4723
L_L-A-11B	95.9950	767606.0043	4.8694	3759.2787	##	MH-9	66.1300	78.5158
L_L-A-3	122.4665	742018.0541	5.0753	5107.4757	##	MH-11	65.3700	77.0584
L_L-A-5	18.3117	25928.9691	1.8910	3883.7978	##	MH-10	65.7900	77.8485
L_L-J-A-5	130.4524	2322037.200	10.3124	6392.4965	##	E11504.3	65.1600	76.4300

L_L-A-12	258.7606	2116624.018	6.4558	10793.1702	##	A-11	71.8100	82.8481
L_L-J-A-10	96.0237	767280.2907	4.8702	7052.0273	##	J-A-5	72.3800	83.0648
L_L-J-A-2	73.8916	421996.6752	3.0632	7240.1393	##	A-12	72.5600	82.8099
L_L-J-A-12	277.2213	2317635.327	6.9137	12822.7426	##	J-A-10	73.1000	83.0221
L_L-A-10	64.9200	556519.6664	4.0667	3989.6638	##	A-3	73.3500	83.2902
L_L-J-A-9	71.2072	404655.8909	4.4603	5857.8532	##	A-5	74.7700	83.1033
L_L-A-1	75.4998	232580.2852	3.1287	9391.3231	##	CNT-01	73.3400	86.1460
L_L-A-9	50.1011	217338.5926	3.1380	5201.9272	##	J-A-12	72.2900	82.6825
L_L-A-8	48.9461	216470.4642	3.8737	3382.7626	##	A-10	73.4400	83.3559
L_L-D-5A	111.9449	4727721.296	8.9741	484.4555	##	J-A-2	73.6460	83.4109
L_L-BNGL03	157.4055	1487445.591	5.2291	12613.7544	##	A-13	71.9700	82.5239
L_L-D-5	112.2570	4644291.762	7.0237	4640.7924	##	J-A-9	73.6770	83.5473
L_L-D-2	21.6666	139463.9996	3.0450	1392.5025	##	A-2	73.9970	83.5494
L_L-BNGL01	113.2018	1142718.062	8.9266	835.2077	##	A-9	74.0300	83.7612
L_L-BNGL02	35.0649	205325.0077	3.6247	1130.9274	##	A-1	74.3860	83.5752
L_L-J-D-5	111.8679	4579576.484	6.9663	6514.7762	##	J-A-8	74.3400	83.8195
L_L-D-2A	15.0757	92582.4204	2.3960	2027.2065	##	A-8	74.6000	83.9044
L_L-D-3	96.8297	4516688.874	6.0422	4826.6749	##	BNGL03	66.4400	78.9513
L_L-D-3A	96.7993	4369030.385	6.0372	3571.1132	##	D-5A	67.9700	78.9773
L_L-J-D-6A	33.7502	210603.1208	3.4888	861.0757	##	BNGL02	67.9600	79.1427
L_L-D-6	33.7771	210602.8849	3.4915	755.7664	##	D-5	68.2600	79.2473
L_L-D-7	18.1956	119634.8872	2.5557	1192.5883	##	D-2	70.0610	79.1703
L_L-J-B-3	200.4767	2163165.254	6.6621	8430.7355	##	BNGL01	68.0400	79.3049
L_L-B-9	310.1037	2565470.438	7.7419	9122.8522	##	D-2a	69.9850	79.1574
L_L-B-2	52.9780	382870.1041	3.3119	2670.5916	##	J-D-5	68.6600	79.7966
L_L-B-4	25.2688	119991.0500	3.5382	1059.1917	##	D-1	70.7590	79.1772
L_L-CNT-02	131.3666	1662930.421	10.3597	395.2088	##	D-3	68.9600	80.2722
L_L-J-B-2	39.3761	319018.4727	3.2660	5181.0671	##	D-3a	69.1900	80.5932
L_L-B-1	39.3899	319242.0991	3.4790	3998.6959	##	MH-8	66.3100	78.8025
L_L-C-3	8.1492	36686.6766	3.2154	348.8738	##	J-D-6a	69.3400	78.8136
L_L-C-2A	58.8359	519988.5734	4.8783	3434.0892	##	D-6	69.4100	78.8234
L_L-C-2	29.1583	292261.3565	3.2234	2444.7847	##	D-7	70.0700	78.8400
Link322	419.2721	5393369.070	8.7016	3770.6498	##	B-6	71.9100	82.1778
Link323	39.3527	262894.0816	12.3466	345.8269	##	B-8	71.1600	82.2090
L-C4	15.0692	96305.4298	4.7224	395.2071	##	J-B-3	72.1800	82.4018
L-C-4A	65.0424	557885.6953	5.1583	4479.0282	##	B-9	71.3800	82.2909
L-C-1	17.4108	201840.4418	2.4475	996.8523	##	B-2	72.3500	82.4188
L-BNGL03	151.9092	6215075.252	5.0276	3929.2208	##	B-4	73.1470	82.4096
L-A102	188.4633	1970656.192	4.6901	1211.6213	##	CNT-02	72.1900	82.5481
L-POND4B	-63.5171	63144.3400	-3.9637	1177.9664	##	J-B-2	73.2350	82.4788
L-A-2	73.9394	422600.3553	3.0658	8378.3435	##	B-1	73.5390	82.5238
Link335	300.1313	2517811.715	7.4881	23484.7997	##	C-3	71.3700	82.1741
Link339	446.4738	4043190.536	13.8469	6591.5983	##	C-6	75.1560	82.1751
Link340	96.7946	4327586.945	8.0098	5353.9474	##	C-2a	72.1070	82.2294
Link342	188.4316	1972420.979	4.6894	15091.3837	##	C-2	72.3750	82.2768
L-B-10	321.0370	2646533.356	8.0206	9055.9563	##	C-1	72.5100	82.3002
Link344	331.5766	2667027.501	8.4249	2938.3225	##	B-7A	72.9800	82.6156
Link345	212.7153	2220184.745	8.9298	2111.6861	##	C-4	73.1400	82.1390
Link347	25.5299	201268.9812	5.1664	1436.1592	##	POND4B	69.2100	79.7968
Link348	28.8661	152031.4099	2.2929	4215.5574	##	POND4A	70.1800	81.9739
948.1	159.5336	6325887.623	6.6841	8468.1700	##	Node386	71.7900	82.8203
948.2	31.7068	549227.9613	4.4699	2519.3999	##	POND4D	70.4600	82.1348
952.1	159.4589	6294121.739	6.6844	10460.6710	##	B-10	70.9330	82.1504
952.2	31.7262	580705.0791	4.4731	3002.6887	##			
1062.1	215.5688	6644612.310	9.0392	5230.3394	##			
36"	42.8822	718138.7589	6.0358	1556.1306	##			
1063.1	146.6929	6082604.344	6.1276	4483.1494	##			
24" RCP	19.1033	342453.7812	5.9849	160.3859	##			
FREE # 1	143.9447	2042853.123	0.0000	0.0000	##			
FREE # 2	200.2842	2100393.940	0.0000	0.0000	##			
FREE # 3	258.4568	7362485.418	0.0000	0.0000	##			

Table E15a - SPREADSHEET REACH LIST
Peak flow and Total Flow listed by Reach or those conduits or diversions having the same

upstream and downstream nodes.

Upstream Node	Downstream Node	Maximum Flow (cfs)	Total Flow (ft^3)
C-4a	MHI-108	74.0020	655174.119
MHI-108	MHI-109	133.4457	2004776.33
MHI-109	E11504.2	143.9398	2042582.30
A102	E11504.1	200.2842	2100375.25
J-A-5	A-11	244.5868	3089157.45
A-11	A-12	237.1551	1884929.59
J-A-10	A-11	95.9950	767606.004
A-3	J-A-5	122.4665	742018.054
A-5	J-A-5	18.3117	25928.9691
CNT-01	J-A-5	130.4524	2322037.20
A-12	J-A-12	258.7606	2116624.02
A-10	J-A-10	96.0237	767280.291
J-A-2	A-3	73.8916	421996.675
J-A-12	A-13	277.2213	2317635.33
J-A-9	A-10	64.9200	556519.666
A-9	J-A-9	71.2072	404655.891
A-1	A-2	75.4998	232580.285
J-A-8	A-9	50.1011	217338.593
A-8	J-A-8	48.9461	216470.464
D-5A	BNGL03	111.9449	4727721.30
BNGL02	BNGL03	157.4055	1487445.59
D-5	D-5A	112.2570	4644291.76
D-2	BNGL02	21.6666	139464.000
BNGL01	BNGL02	113.2018	1142718.06
D-2a	BNGL02	35.0649	205325.008
J-D-5	D-5	111.8679	4579576.48
D-1	D-2a	15.0757	92582.4204
D-3	J-D-5	96.8297	4516688.87
D-3a	D-3	96.7993	4369030.39
J-D-6a	MH-8	33.7502	210603.121
D-6	J-D-6a	33.7771	210602.885
D-7	D-6	18.1956	119634.887
J-B-3	B-6	200.4767	2163165.25
B-9	B-8	310.1037	2565470.44
B-2	J-B-3	52.9780	382870.104
B-4	J-B-3	25.2688	119991.050
CNT-02	J-B-3	131.3666	1662930.42
J-B-2	B-2	39.3761	319018.473
B-1	J-B-2	39.3899	319242.099
C-6	C-3	8.1492	36686.6766
C-2a	C-3	58.8359	519988.573
C-2	C-2a	29.1583	292261.356
POND4D	MHI-108	419.2721	5393369.07
B-7A	POND4D	39.3527	262894.082
C-4	C-4a	15.0692	96305.4298
C-3	C-4a	65.0424	557885.695
C-1	C-2	17.4108	201840.442
BNGL03	MH-8	151.9092	6215075.25
A-11	Node386	188.4633	1970656.19
POND4B	J-D-5	-63.5171	63144.3400
A-2	J-A-2	73.9394	422600.355
A-13	B-9	300.1313	2517811.72
MHI-108	POND4A	446.4738	4043190.54
POND4A	D-3a	96.7946	4327586.94
Node386	A102	188.4316	1972420.98
B-8	B-10	321.0370	2646533.36
B-10	POND4D	331.5766	2667027.50
B-6	POND4D	212.7153	2220184.75
A-5	J-A-12	25.5299	201268.981
A-2	J-A-9	28.8661	152031.410
MH-9	MH-10	191.2382	6875115.58

MH-10	MH-11	191.1836	6874826.82
MH-11	E11504.3	258.4496	7362751.07
MH-8	MH-9	165.7953	6425058.13

Table E19 - Junction Inflow & Outflow Listing
Units are either ft^3 or m^3 depending on the units in your model.

Junction Name	Constant Inflow to Node	User Inflow to Node	Interface Inflow to Node	DWF Inlow to Node	Inflow through Outfall	RNF Layer Inflow to Node	Outflow from Node	Evaporation from Node	Inflow from 2D Layer
MHI-109	0.0000	38277.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
E11504.2	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2.0429E+06	0.0000	
E11504.1	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2.1004E+06	0.0000	
A102	0.0000	131859.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
MH-9	0.0000	450310.8000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
MH-11	0.0000	488326.6000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
E11504.3	0.0000	0.0000	0.0000	0.0000	27100.1689	0.0000	7.3896E+06	0.0000	
A-12	0.0000	232839.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
A-3	0.0000	321547.6000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
A-5	0.0000	228033.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
CNT-01	0.0000	2.3278E+06	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
A-10	0.0000	211797.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
A-13	0.0000	201033.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
A-2	0.0000	342868.6000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
A-9	0.0000	187704.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
A-1	0.0000	200754.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
A-8	0.0000	216675.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
D-5A	0.0000	80280.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
D-5	0.0000	61173.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
D-2	0.0000	137961.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
BNGL01	0.0000	1.1435E+06	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
D-2a	0.0000	112500.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
D-1	0.0000	92214.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
D-3	0.0000	147172.6000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
D-3a	0.0000	42111.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
D-6	0.0000	87597.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
D-7	0.0000	117463.6000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
B-6	0.0000	55962.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
B-8	0.0000	81369.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
B-9	0.0000	43965.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
B-2	0.0000	63540.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
B-4	0.0000	119799.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
CNT-02	0.0000	1.6643E+06	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
B-1	0.0000	319221.8000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
C-6	0.0000	36594.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
C-2a	0.0000	227736.2000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
C-2	0.0000	88078.6000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
C-1	0.0000	200470.8000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
B-7A	0.0000	263767.6000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
C-4	0.0000	94014.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
POND4B	0.0000	66915.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
POND4A	0.0000	270252.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
POND4D	0.0000	261045.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	

Table E20 - Junction Flooding and Volume Listing.
The maximum volume is the total volume in the node including the volume in the flooded storage area. This is the max volume at any time. The volume in the flooded storage area is the total volume above the ground elevation, where the flooded pond storage area starts.
The fourth column is instantaneous, the fifth is the sum of the flooded volume over the entire simulation
Units are either ft^3 or m^3 depending on the units.

Junction Name	Surcharged Time (min)	Flooded Time(min)	Out of 1D-System (Flooded Volume)	Maximum Volume	Passed to 2D cell OR Volume Stored in allowed Flood Pond of 1D-System
C-4a	623.3333	287.9554	0.0000	36965.9638	40645.2282
MHI-108	525.2763	278.9963	0.0000	35356.0957	35761.3709

MHI-109	652.5000	203.4159	0.0000	10345.7990	11226.7838
E11504.2	1042.0556	0.0000	0.0000	155.8184	6.8254
E11504.1	763.7222	0.0000	0.0000	142.2471	10.6882
A102	538.8889	275.1556	0.0000	31048.7566	41746.9231
MH-9	292.2806	154.5935	0.0000	155.6398	43.8971
MH-11	360.6667	196.9361	0.0000	146.8765	62.5094
MH-10	303.8974	24.2895	0.0000	151.5272	1.5052
E11504.3	361.5855	0.0000	0.0000	141.6188	0.0000
A-11	417.3077	147.9543	0.0000	4786.0570	8091.1617
J-A-5	387.7436	210.9804	0.0000	16320.7886	21412.0169
A-12	443.5114	188.3465	0.0000	6885.0117	11042.3787
J-A-10	404.8462	52.3723	0.0000	1181.0672	1267.6747
A-3	460.7436	211.1549	0.0000	16888.0154	22059.1918
A-5	393.6410	208.1787	0.0000	13753.3343	16524.1023
CNT-01	475.8547	254.8074	0.0000	369536.2955	433190.2006
J-A-12	463.3077	0.0000	0.0000	130.5933	0.0000
A-10	384.3077	185.0559	0.0000	13648.9458	16751.6603
J-A-2	437.4615	136.7064	0.0000	9127.7645	11912.6790
A-13	487.0000	171.5264	0.0000	2464.1577	4050.3735
J-A-9	400.2821	86.8181	0.0000	5992.1671	6334.1574
A-2	412.2564	214.9658	0.0000	21204.8849	64571.4261
A-9	379.0570	195.9345	0.0000	20903.5076	24681.6426
A-1	383.9355	152.0338	0.0000	6517.2117	26898.0572
J-A-8	364.1116	103.7321	0.0000	10575.1252	11647.6848
A-8	375.4878	214.5117	0.0000	25118.5924	31382.2927
BNGL03	369.8440	196.3912	0.0000	157.2174	59.5579
D-5A	401.0385	200.7204	0.0000	30524.0625	31278.7587
BNGL02	328.8535	201.9583	0.0000	140.5227	84.0191
D-5	436.0363	167.0384	0.0000	12878.3293	13059.0389
D-2	341.2183	216.3750	0.0000	39551.9031	43595.9923
BNGL01	394.2500	156.5033	0.0000	16976.2474	19459.1191
D-2a	324.5018	208.6500	0.0000	34337.3843	35826.8010
J-D-5	488.2402	0.0000	0.0000	139.9431	0.0000
D-1	313.2154	149.0904	0.0000	11985.0070	12948.2375
D-3	596.9380	173.8991	0.0000	12104.4474	13409.5523
D-3a	614.8095	115.1042	0.0000	143.2928	14.7374
MH-8	320.3810	173.6065	0.0000	156.9810	33.0188
J-D-6a	344.8770	199.1458	0.0000	119.0457	32.2544
D-6	342.0635	219.4792	0.0000	38441.2300	38841.5929
D-7	336.2454	202.5135	0.0000	29374.5264	31520.0287
B-6	484.0231	176.1996	0.0000	5267.9045	5833.4222
B-8	541.8611	215.5291	0.0000	8546.7544	13710.8759
J-B-3	464.3205	177.1349	0.0000	5723.2088	5969.5472
B-9	530.0648	144.8586	0.0000	2597.6449	3344.2763
B-2	490.6758	178.8180	0.0000	5689.3798	5771.9054
B-4	541.9417	219.7263	0.0000	10535.8239	11435.7341
CNT-02	539.8611	263.3852	0.0000	33871.4707	38845.0533
J-B-2	460.2857	188.3102	0.0000	6332.3557	6544.1903
B-1	437.5311	192.3819	0.0000	4350.8949	4718.5536
C-3	478.0248	243.8234	0.0000	15681.1832	16155.0604
C-6	469.9098	282.5456	0.0000	23602.3163	25911.8214
C-2a	609.6111	300.3362	0.0000	29547.3135	32014.0664
C-2	591.3889	353.9761	0.0000	46005.5664	47459.8606
C-1	583.0000	377.4615	0.0000	53062.7895	58331.8129
B-7A	626.8611	313.8317	0.0000	27166.0067	30713.6907
C-4	605.5833	293.7523	0.0000	33500.2784	37053.6093
POND4B	454.8626	0.0000	0.0000	364941.4059	0.0000
POND4A	658.5278	0.0000	0.0000	2719636.609	0.0000
Node386	505.6410	146.7770	0.0000	4521.1731	5712.2994
POND4D	511.9927	0.0000	0.0000	987430.4781	0.0000
B-10	553.0707	145.0578	0.0000	2305.7289	4490.6718

==========
| Simulation Specific Information |
==========
Number of Input Conduits..... 68 Number of Simulated Conduits..... 71

Number of Natural Channels..... 0 Number of Junctions..... 63
Number of Storage Junctions..... 26 Number of Weirs..... 0
Number of Orifices..... 0 Number of Pumps..... 0
Number of Free Outfalls..... 3 Number of Tide Gate Outfalls..... 0

Average % Change in Junction or Conduit is defined as:
Conduit % Change ==> 100.0 (Q(n+1) - Q(n)) / Qfull
Junction % Change ==> 100.0 (Y(n+1) - Y(n)) / Yfull

The Conduit with the largest average change was..L_L-A-1 with 0.030 percent
The Junction with the largest average change was.A-1 with 0.404 percent
The Conduit with the largest sinuosity was.....L_L-A-1 with 75.257

Table E21. Continuity balance at the end of the simulation
Junction Inflow, Outflow or Street Flooding
Error = Inflow + Initial Volume - Outflow - Final Volume

Inflow Junction	Inflow Volume,ft^3	Average Inflow, cfs
MHI-109	38278.7412	0.2215
A102	131865.1318	0.7631
MH-9	450327.0535	2.6061
MH-11	488338.5201	2.8260
E11504.3	27100.1689	0.1568
A-12	232845.5093	1.3475
A-3	321556.4381	1.8609
A-5	228039.9068	1.3197
CNT-01	2.32786E+06	13.4714
A-10	211803.3081	1.2257
A-13	201039.3512	1.1634
A-2	342878.4374	1.9843
A-9	187709.9435	1.0863
A-1	200759.8693	1.1618
A-8	216681.4315	1.2539
D-5A	80282.7546	0.4646
D-5	61175.3002	0.3540
D-2	137965.5606	0.7984
BNGL01	1.14358E+06	6.6179
D-2a	112504.2801	0.6511
D-1	92217.5893	0.5337
D-3	147177.5080	0.8517
D-3a	42112.5111	0.2437
D-6	87600.2165	0.5069
D-7	117468.0971	0.6798
B-6	55964.5669	0.3239
B-8	81372.2785	0.4709
B-9	43966.8069	0.2544
B-2	63542.6646	0.3677
B-4	119803.5849	0.6933
CNT-02	1.66437E+06	9.6318
B-1	319232.1024	1.8474
C-6	36595.6781	0.2118
C-2a	227747.5706	1.3180
C-2	88083.1547	0.5097
C-1	200475.7788	1.1602
B-7A	263779.7298	1.5265
C-4	94016.3431	0.5441
POND4B	66918.4700	0.3873
POND4A	270257.3561	1.5640
POND4D	261053.2334	1.5107
E11504.2	-2.043E+06	-11.8221
E11504.1	-2.100E+06	-12.1551
E11504.3	-7.390E+06	-42.7638

Outflow Junction	Outflow Volume,ft^3	Average Outflow, cfs
E11504.2	2.04285E+06	11.8221
E11504.1	2.10039E+06	12.1551
E11504.3	7.38959E+06	42.7638

```
| Initial system volume        =        70.0038 Cu Ft |

| Total system inflow volume   =  11.486033E+06 Cu Ft |

| Inflow + Initial volume      =  11.486103E+06 Cu Ft |

*=====================================================*

| Total system outflow         =  11.532833E+06 Cu Ft |

| Volume left in system        =     53624.9960 Cu Ft |

| Evaporation                  =         0.0000 Cu Ft |

| Outflow + Final Volume       =  11.586458E+06 Cu Ft |

*=====================================================*


*=============================================*
| Total Model Continuity Error                |
| Error in Continuity, Percent =      -0.8737 |
| Error in Continuity, ft^3    =    -100354.474 |
| + Error means a continuity loss, - a gain   |
*=============================================*

################################################
# Table E22. Numerical Model judgement section    #
################################################

Your overall error was                                -0.8737 percent


Worst nodal error was in node POND4A           with       -0.4250 percent


Of the total inflow this loss was                      0.3198 percent


Your overall continuity error was                 Excellent


                                                 Excellent Efficiency


Efficiency of the simulation                       2.09


Most Number of Non Convergences at one Node        6.


Total Number Non Convergences at all Nodes        14.


Total Number of Nodes with Non Convergences        6.



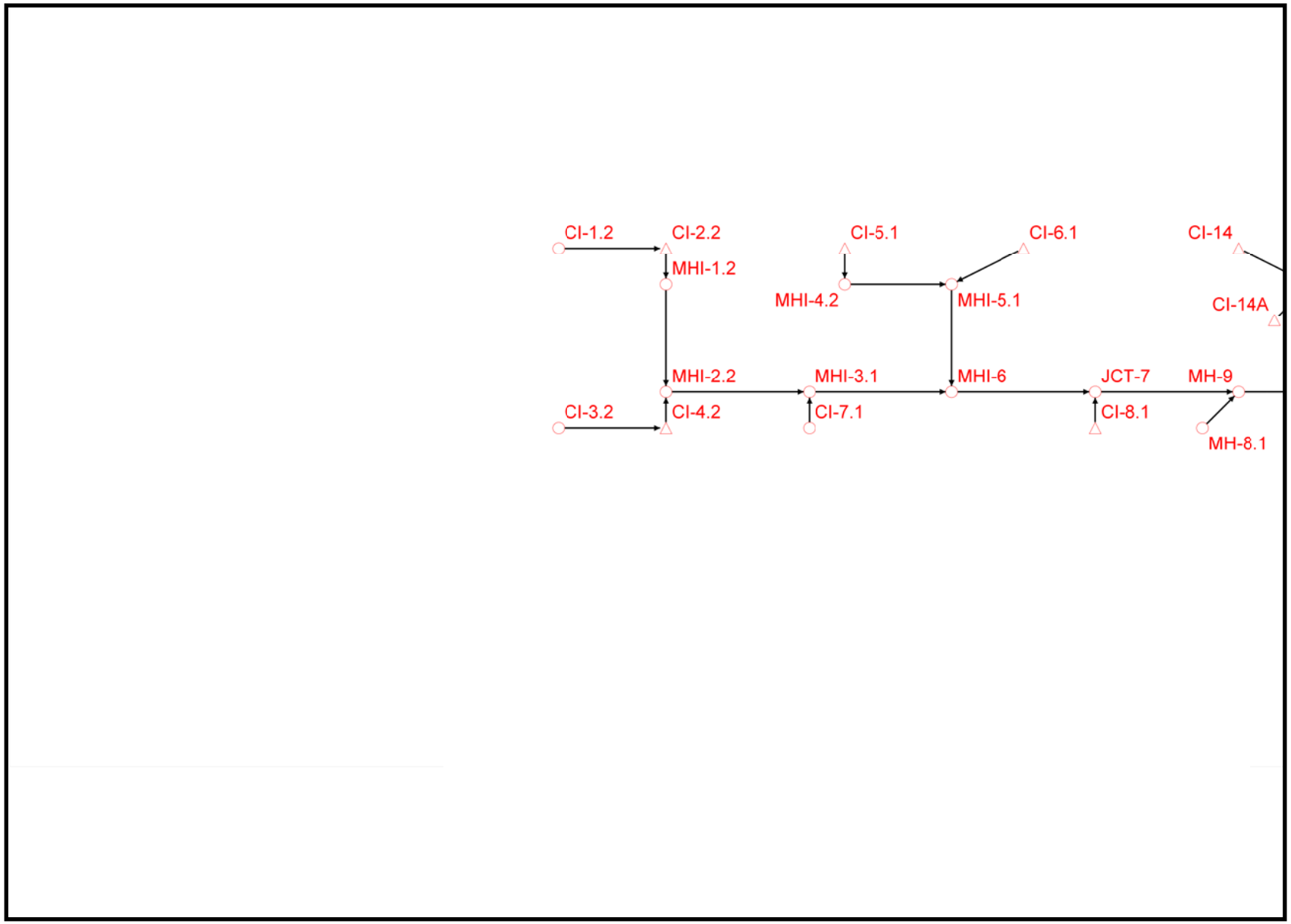
===> Hydraulic model simulation ended normally.
===> XP-SWMM Simulation ended normally.


===> Your input file was named  : P:\PROJECTS\290PMC\PhaseII\DRA\Models\SWMM\Segment A\Mitigated\US290_SegA_BNGLHOL_Mit100-8-31-09.DAT
===> Your output file was named : P:\PROJECTS\290PMC\PhaseII\DRA\Models\SWMM\Segment A\Mitigated\US290_SegA_BNGLHOL_Mit100-8-31-09.out

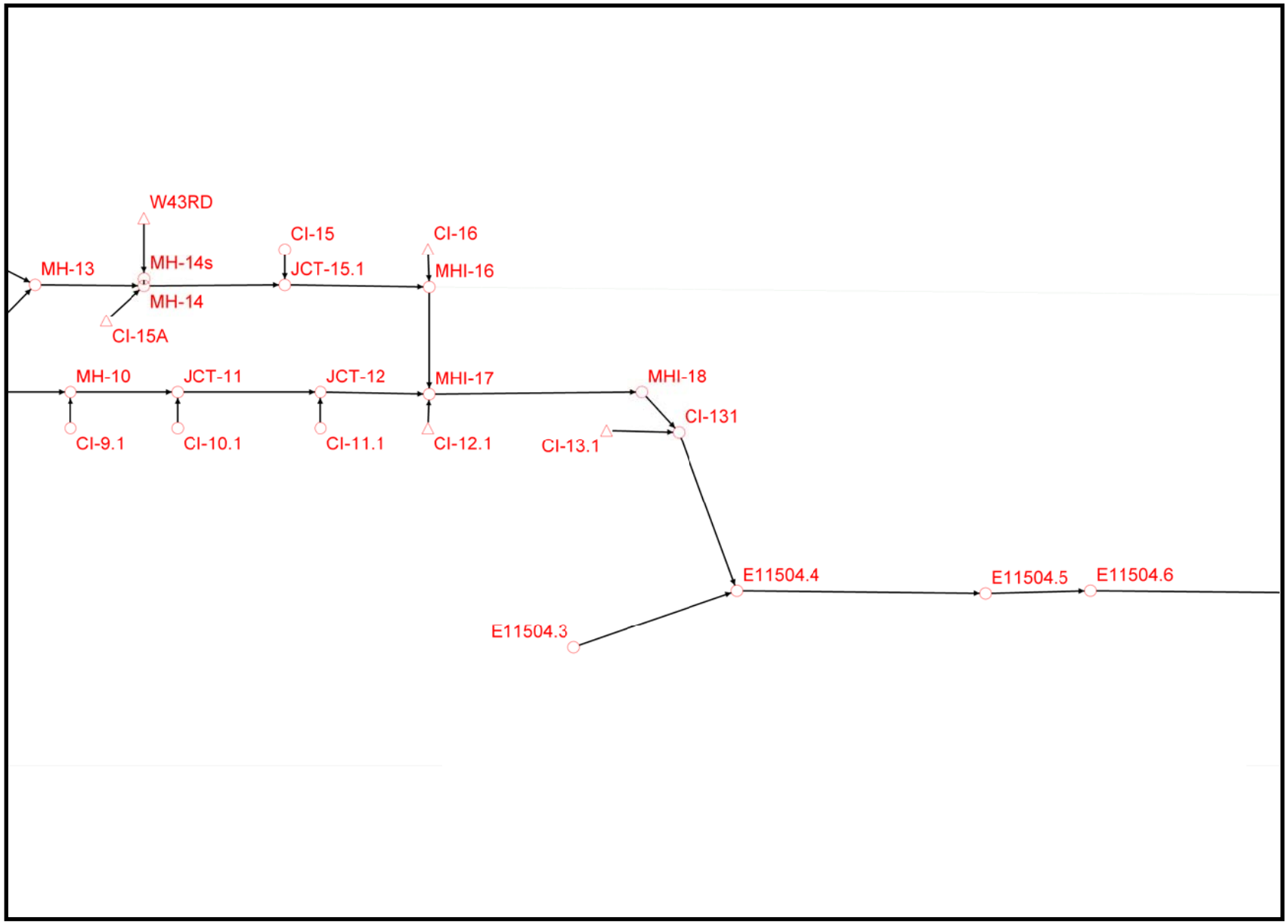
*============================================================*
|            SWMM Simulation Date and Time Summary           |
*============================================================*
| Starting Date... September   4, 2009  Time...   13:42:30:39  |
|   Ending Date... September   4, 2009  Time...   13:44:25:70  |
|  Elapsed Time...    1.92183 minutes or    115.31000 seconds  |
*============================================================*
```

OUTFALLS 20-22
SWMM OUTPUT
100 YR- EXISTING CONDITIONS

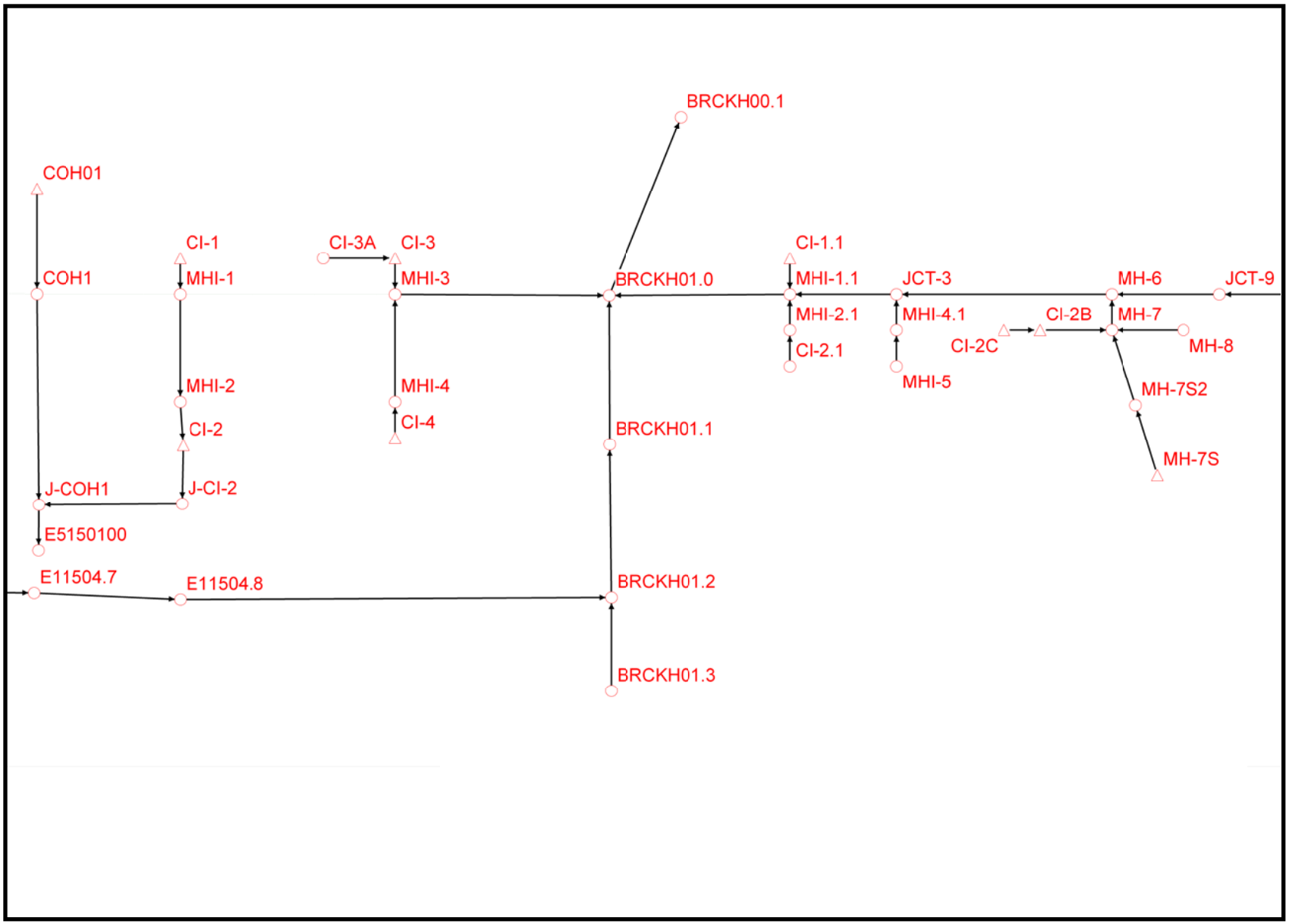
OUTFALL 20, 21, & 22
EXISTING CONDITIONS SWMM LAYOUT



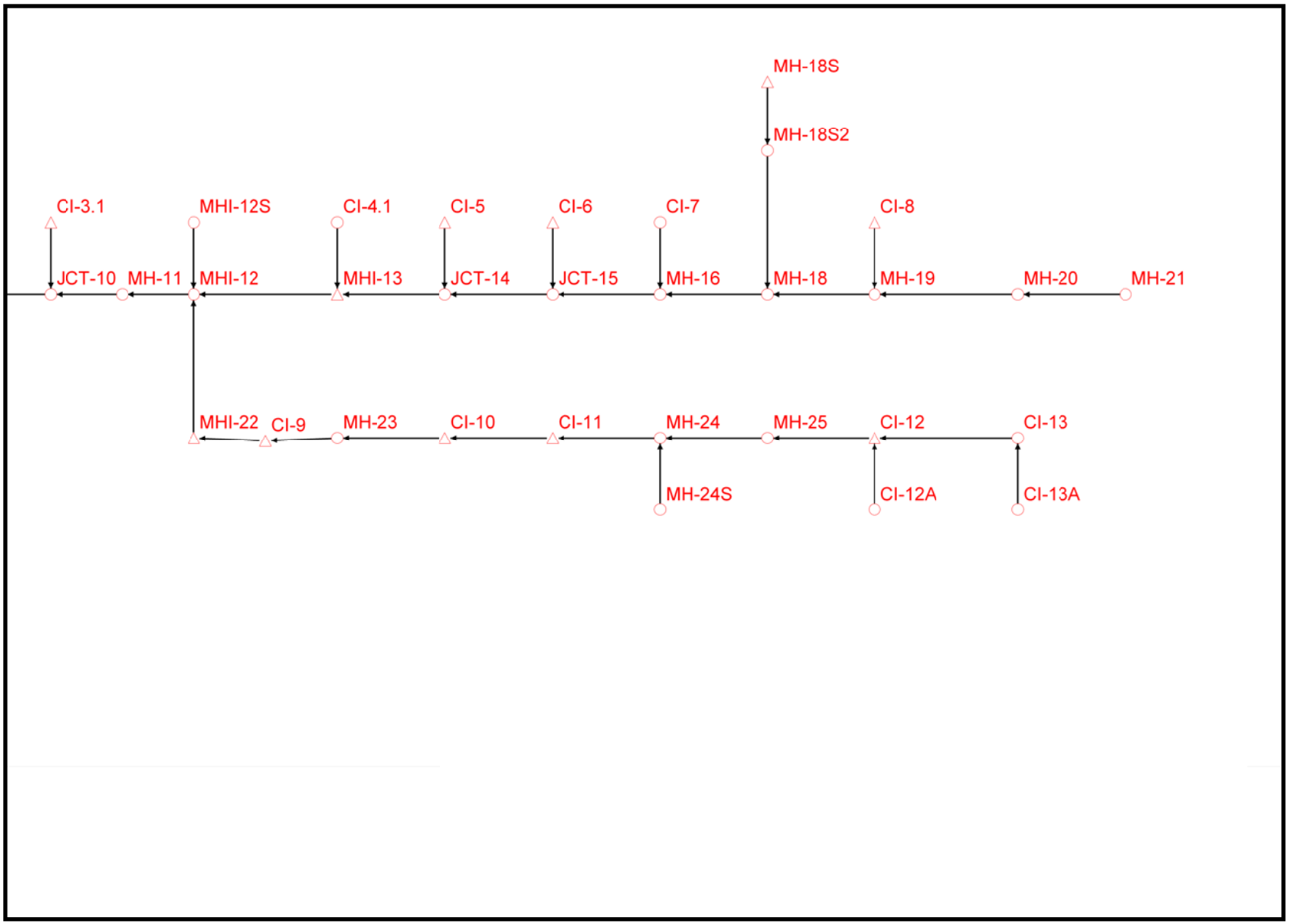
OUTFALL 20, 21, & 22
EXISTING CONDITIONS SWMM LAYOUT



OUTFALL 20, 21, & 22
EXISTING CONDITIONS SWMM LAYOUT



OUTFALL 20, 21, & 22
EXISTING CONDITIONS SWMM LAYOUT



Current Directory: C:\XPS\xpstorm
Engine Name: C:\XPS\xpstorm\SWMMEN~1.EXE

Input File : M\Segment A\Existing\US290_SegA_Sys_BKHSEW43_Ext100-adjust-wat.XP

```
          *================================================*
          |                      xpswmm                    |
          |     Storm and Wastewater Management Model      |
          |            Interface Version: 10.52            |
          |               Engine Version: 10.54            |
          |================================================|
          |                                                |
          |                 Developed by                   |
          |                                                |
          |                 XP Software                    |
          |                                                |
          |================================================|
          |      XP Software       November, 2006          |
          |       Data File Version --->   11.9            |
          |       Serial Number: 66-1000-0581              |
          |                      HNTB                      |
          *================================================*
```

Engine Name: C:\XPS\xpstorm\SWMMEN~1.EXE

==
| Input and Output file names by Layer |
==

Input File to Layer #   1 JOT.US
Output File to Layer #   1 JOT.US

==
| Special command line arguments in XP-SWMM2000. This |
| now includes program defaults. $Keywords are the program|
| defaults. Other Keywords are from the SWMMCOM.CFG file.|
| or the command line or any cfg file on the command line.|
| Examples include these in the file xpswm.bat under the |
| section :solve or in the windows version XPSWMM32 in the|
| file solve.bat |
| |
| Note: the cfg file should be in the subdirectory swmxp |
| or defined by the set variable in the xpswm.bat |
| file. Some examples of the command lines possible|
| are shown below: |
| |
| swmmd swmmcom.cfg |
| swmmd my.cfg |
| swmmd nokeys nconv5 perv extranwq |
==

$powerstation	0.0000	1	2
$perv	0.0000	0	4
$oldegg	0.0000	0	7
$as	0.0000	0	11
$noflat	0.0000	0	21
$oldomega	0.0000	0	24
$oldvol	0.0000	1	28
$implicit	0.0000	1	29
$oldhot	0.0000	1	31
$oldscs	0.0000	0	33
$flood	0.0000	1	40
$nokeys	0.0000	0	42
$pzero	0.0000	0	55
$oldvol2	0.0000	2	59
$storage2	0.0000	3	62
$oldhot1	0.0000	1	63
$pumpwt	0.0000	1	70
$ecloss	0.0000	1	77
$exout	0.0000	0	97
$spatial = 0.90	0.9000	5	124
$djref = -1.0	-0.1000	3	143
$weirlen = 50	50.0000	1	153
$oldbnd	0.0000	1	154
$nogrelev	0.0000	1	161
$ncmid	0.0000	0	164
$new_nl_97	0.0000	2	290
$best97	0.0000	1	294
$newbound	0.0000	1	295
$q_tol = 0.01	0.0001	1	316
$new_storage	0.0000	1	322
$old_iteration	0.0000	1	333
$minlen=30.0	30.0000	1	346
$review_elevation	0.0000	1	383
$use_half_volume	0.0000	1	385
$min_ts = 0.5	0.5000	1	407
$design_restart = on	0.0000	1	412
$zero_value=1.e-05	0.0000	1	415
$relax_depth = on	0.0000	1	427
$saveallpts = on	0.0000	1	434

==
| Parameter Values on the Tapes Common Block.These are the |
| values read from the data file and dynamically allocated |
| by the model for this simulation. |
==

Number of Subcatchments in the Runoff Block (NW)....	0
Number of Channel/Pipes in the Runoff Block (NG)....	0
Runoff Water quality constituents (NRQ).....	0
Runoff Land Uses per Subcatchment (NLU).....	0
Number of Elements in the Transport Block (NET).....	0
Number of Storage Junctions in Transport (NTSE).....	0
Number of Input Hydrographs in Transport (NTH).....	0
Number of Elements in the Extran Block (NEE).....	111
Number of Groundwater Subcatchments in Runoff (NGW).	0
Number of Interface locations for all Blocks (NIE)..	111
Number of Pumps in Extran (NEP).....	0
Number of Orifices in Extran (NEO).....	0
Number of Tide Gates/Free Outfalls in Extran (NTG)..	2
Number of Extran Weirs (NEW).....	0
Number of scs hydrograph points.....	1
Number of Extran printout locations (NPO).....	0
Number of Tide elements in Extran (NTE).....	2
Number of Natural channels (NNC).....	10
Number of Storage junctions in Extran (NVSE).....	32
Number of Time history data points in Extran(NTVAL).	300
Number of Variable storage elements in Extran (NVST)	9
Number of Input Hydrographs in Extran (NEH).....	75
Number of Particle sizes in Transport Block (NPS)...	0
Number of User defined conduits (NHW).....	111
Number of Connecting conduits in Extran (NECC).....	20
Number of Upstream elements in Transport (NTCC).....	10
Number of Storage/treatment plants (NSTU).....	1

```
 Number of Values for R1 lines in Transport (NR1)....     0
 Number of Nodes to be allowed for (NNOD)............   111
 Number of Plugs in a Storage Treatment Unit.........     1


####################################################
#    Entry made to the HYDRAULIC Layer(Block) of SWMM #
#    Last Updated June,2005 by XP Software           #

    US 290/Hempstead Hwy Corridor
    Drainage Impact Study - Existing Conditions Sys GH- /// 100-Year Freque


*==========================================================*
|        HYDRAULICS TABLES IN THE OUTPUT FILE              |
|  These are the more important tables in the output file.  |
|  You can use your editor to find the table numbers,       |
|  for example: search for Table E20 to check continuity.   |
|  This output file can be imported into a Word Processor   |
|  and printed on US letter or A4 paper using portrait      |
|  mode, courier font, a size of 8 pt. and margins of 0.75  |
|                                                           |
| Table E1   - Basic Conduit Data                           |
| Table E2   - Conduit Factor Data                          |
| Table E3a  - Junction Data                                |
| Table E3b  - Junction Data                                |
| Table E4   - Conduit Connectivity Data                    |
| Table E4a  - Dry Weather Flow Data                        |
| Table E4b  - Real Time Control Data                       |
| Table E5   - Junction Time Step Limitation Summary        |
| Table E5a  - Conduit Explicit Condition Summary           |
| Table E6   - Final Model Condition                        |
| Table E7   - Iteration Summary                            |
| Table E8   - Junction Time Step Limitation Summary        |
| Table E9   - Junction  Summary  Statistics                |
| Table E10  - Conduit   Summary  Statistics                |
| Table E11  - Area assumptions used in the analysis        |
| Table E12  - Mean conduit information                     |
| Table E13  - Channel losses(H) and culvert info           |
| Table E13a - Culvert Analysis Classification              |
| Table E14  - Natural Channel Overbank Flow Information    |
| Table E14a - Natural Channel Encroachment Information     |
| Table E14b - Floodplain Mapping                           |
| Table E15  - Spreadsheet Info List                        |
| Table E15a - Spreadsheet Reach List                       |
| Table E16  - New Conduit Output Section                   |
| Table E17  - Pump Operation                               |
| Table E18  - Junction Continuity Error                    |
| Table E19  - Junction Inflow & Outflow Listing            |
| Table E20  - Junction Flooding and Volume List            |
| Table E21  - Continuity balance at simulation end         |
| Table E22  - Model Judgement Section                      |
*==========================================================*

Time Control from Hydraulics Job Control
Year.........    2007 Month.......       1
Day..........       1 Hour........       0
Minute.......       0 Second......       0


Control information for simulation
----------------------------------

Integration cycles..................     12960
Length of integration step is......     10.00 seconds
Simulation length...................     36.00 hours
Do not create equiv. pipes(NEQUAL)..        0
Use U.S. customary units for I/O...         0
Printing starts in cycle...........         1
Intermediate printout intervals of.       180 cycles
Intermediate printout intervals of.     30.00 minutes
Summary printout intervals of......       180 cycles
Summary printout time interval of..     30.00 minutes
Hot start file parameter (REDO)....         0
Initial time.......................      0.00 hours

Iteration variables: Flow Tolerance.   0.00010
                     Head Tolerance.   0.00050
    Minimum depth (m or ft).........   0.00001
    Underrelaxation parameter.......   0.85000
    Time weighting parameter........   0.85000
    Conduit roughness factor........   1.00000
    Flow adjustment factor..........   1.00000
    Initial Condition Smoothing.....         0
    Courant Time Step Factor........   1.00000
    Default Expansion/Contraction K.   0.00000
    Default Entrance/Exit K.........   0.00000
    Routing Method..................   Dynamic Wave
Default surface area of junctions...     12.57 square feet.
Minimum Junction/Conduit Depth......   0.00001 feet.
Ponding Area Coefficient............   5000.00
Ponding Area Exponent...............    1.0000
Minimum Orifice Length..............   1000.00 feet.
NJSW input hydrograph junctions.....     75
     or user defined hydrographs....

        Natural Cross-Section information for Channel E115-01.3
        =======================================================
         Cross-Section ID (from X1 card) :     1.0 Channel sequence number :     1

  Left Overbank Length   :    131.1 ft               Maximum Elevation        :    70.00 ft.
  Main Channel Length    :    254.7 ft               Maximum Depth            :    18.42 ft.
  Right Overbank Length  :    283.6 ft               Maximum Section Area     : 2565.914 ft^2
                                                     Maximum hydraulic radius :     1.74 ft.
  Manning N :      0.080  to Station        4967.7    Max topwidth             :  1460.20 ft.
    "    "  :      0.015  in main Channel             Maximum Wetted Perimeter : 1.47E+03 ft
    "    "  :      0.080  Beyond station    5034.7    Max left bank area       :  1746.81 ft^2
                                                     Max right bank area      :    53.35 ft^2
  Allowable Encroachment Depth :    0.00 ft          Max center channel area  : 765.7545 ft^2

        Natural Cross-Section information for Channel E115-03.1
        =======================================================
         Cross-Section ID (from X1 card) :     2.0 Channel sequence number :     2

  Left Overbank Length   :    592.2 ft               Maximum Elevation        :    69.80 ft.
  Main Channel Length    :    151.0 ft               Maximum Depth            :    18.41 ft.
  Right Overbank Length  :    196.1 ft               Maximum Section Area     : 1918.198 ft^2
                                                     Maximum hydraulic radius :     1.97 ft.
  Manning N :      0.080  to Station        4967.7    Max topwidth             :   964.60 ft.
    "    "  :      0.015  in main Channel             Maximum Wetted Perimeter : 9.76E+02 ft
    "    "  :      0.080  Beyond station    5034.7    Max left bank area       :  1092.85 ft^2
                                                     Max right bank area      :    60.26 ft^2
  Allowable Encroachment Depth :    0.00 ft          Max center channel area  : 765.0845 ft^2

        Natural Cross-Section information for Channel E115-01.1
        =======================================================
         Cross-Section ID (from X1 card) :     3.0 Channel sequence number :     3
```

```
 Left Overbank Length   :     97.7 ft               Maximum Elevation        :    69.58 ft.
 Main Channel Length    :    114.2 ft               Maximum Depth            :    18.34 ft.
 Right Overbank Length  :    131.8 ft               Maximum Section Area     : 1655.169 ft^2
                                                    Maximum hydraulic radius :     1.60 ft.
 Manning N :      0.080  to Station        4966.1    Max topwidth             :  1025.30 ft.
   "    "  :      0.015  in main Channel             Maximum Wetted Perimeter : 1.04E+03 ft
   "    "  :      0.080  Beyond station    5033.2    Max left bank area       :   812.33 ft^2
                                                    Max right bank area      :    84.45 ft^2
 Allowable Encroachment Depth :    0.00 ft           Max center channel area  : 758.3905 ft^2

       Natural Cross-Section information for Channel 11504.3
       =====================================================
        Cross-Section ID (from X1 card) :     4.0 Channel sequence number :     4

 Left Overbank Length   :    203.0 ft               Maximum Elevation        :    74.80 ft.
 Main Channel Length    :    200.0 ft               Maximum Depth            :    16.39 ft.
 Right Overbank Length  :    200.0 ft               Maximum Section Area     : 3157.084 ft^2
                                                    Maximum hydraulic radius :     2.27 ft.
 Manning N :      0.080  to Station        4967.8    Max topwidth             :  1378.60 ft.
   "    "  :      0.015  in main Channel             Maximum Wetted Perimeter : 1.39E+03 ft
   "    "  :      0.080  Beyond station    5027.3    Max left bank area       :   707.45 ft^2
                                                    Max right bank area      :  1951.44 ft^2
 Allowable Encroachment Depth :    0.00 ft           Max center channel area  : 498.1940 ft^2

       Natural Cross-Section information for Channel 11504.4
       =====================================================
        Cross-Section ID (from X1 card) :     5.0 Channel sequence number :     5

 Left Overbank Length   :    603.0 ft               Maximum Elevation        :    74.80 ft.
 Main Channel Length    :    600.0 ft               Maximum Depth            :    16.39 ft.
 Right Overbank Length  :    597.0 ft               Maximum Section Area     : 3157.084 ft^2
                                                    Maximum hydraulic radius :     2.27 ft.
 Manning N :      0.080  to Station        4967.8    Max topwidth             :  1378.60 ft.
   "    "  :      0.015  in main Channel             Maximum Wetted Perimeter : 1.39E+03 ft
   "    "  :      0.080  Beyond station    5027.3    Max left bank area       :   707.45 ft^2
                                                    Max right bank area      :  1951.44 ft^2
 Allowable Encroachment Depth :    0.00 ft           Max center channel area  : 498.1940 ft^2

       Natural Cross-Section information for Channel 11504.5
       =====================================================
        Cross-Section ID (from X1 card) :     6.0 Channel sequence number :     6

 Left Overbank Length   :     42.5 ft               Maximum Elevation        :    72.25 ft.
 Main Channel Length    :     42.5 ft               Maximum Depth            :    14.23 ft.
 Right Overbank Length  :     42.5 ft               Maximum Section Area     : 787.7791 ft^2
                                                    Maximum hydraulic radius :     2.58 ft.
 Manning N :      0.080  to Station        4958.9    Max topwidth             :   290.90 ft.
   "    "  :      0.015  in main Channel             Maximum Wetted Perimeter : 3.05E+02 ft
   "    "  :      0.080  Beyond station    5028.1    Max left bank area       :   206.03 ft^2
                                                    Max right bank area      :   115.43 ft^2
 Allowable Encroachment Depth :    0.00 ft           Max center channel area  : 466.3156 ft^2

       Natural Cross-Section information for Channel 11504.6
       =====================================================
        Cross-Section ID (from X1 card) :     7.0 Channel sequence number :     7

 Left Overbank Length   :    436.0 ft               Maximum Elevation        :    72.24 ft.
 Main Channel Length    :    428.0 ft               Maximum Depth            :    14.23 ft.
 Right Overbank Length  :    421.0 ft               Maximum Section Area     : 1525.378 ft^2
                                                    Maximum hydraulic radius :     1.84 ft.
 Manning N :      0.080  to Station        4972.3    Max topwidth             :   816.30 ft.
   "    "  :      0.015  in main Channel             Maximum Wetted Perimeter : 8.31E+02 ft
   "    "  :      0.080  Beyond station    5022.7    Max left bank area       :   512.53 ft^2
                                                    Max right bank area      :   588.67 ft^2
 Allowable Encroachment Depth :    0.00 ft           Max center channel area  : 424.1795 ft^2

       Natural Cross-Section information for Channel 11504.7
       =====================================================
        Cross-Section ID (from X1 card) :     8.0 Channel sequence number :     8

 Left Overbank Length   :     63.8 ft               Maximum Elevation        :    72.24 ft.
 Main Channel Length    :     63.8 ft               Maximum Depth            :    14.23 ft.
 Right Overbank Length  :     63.8 ft               Maximum Section Area     : 1525.378 ft^2
                                                    Maximum hydraulic radius :     1.84 ft.
 Manning N :      0.080  to Station        4972.3    Max topwidth             :   816.30 ft.
   "    "  :      0.015  in main Channel             Maximum Wetted Perimeter : 8.31E+02 ft
   "    "  :      0.080  Beyond station    5022.7    Max left bank area       :   512.53 ft^2
                                                    Max right bank area      :   588.67 ft^2
 Allowable Encroachment Depth :    0.00 ft           Max center channel area  : 424.1795 ft^2

       Natural Cross-Section information for Channel 11504.8
       =====================================================
        Cross-Section ID (from X1 card) :     9.0 Channel sequence number :     9

 Left Overbank Length   :    778.0 ft               Maximum Elevation        :    71.93 ft.
 Main Channel Length    :    778.0 ft               Maximum Depth            :    15.69 ft.
 Right Overbank Length  :    778.0 ft               Maximum Section Area     : 3367.358 ft^2
                                                    Maximum hydraulic radius :     1.97 ft.
 Manning N :      0.120  to Station        4965.9    Max topwidth             :  1698.82 ft.
   "    "  :      0.015  in main Channel             Maximum Wetted Perimeter : 1.71E+03 ft
   "    "  :      0.080  Beyond station    5029.6    Max left bank area       :  1363.48 ft^2
                                                    Max right bank area      :  1432.92 ft^2
 Allowable Encroachment Depth :    0.00 ft           Max center channel area  : 570.9610 ft^2

       Natural Cross-Section information for Channel E115-02
       =====================================================
        Cross-Section ID (from X1 card) :    10.0 Channel sequence number :    10

 Left Overbank Length   :    308.5 ft               Maximum Elevation        :    69.61 ft.
 Main Channel Length    :    307.0 ft               Maximum Depth            :    18.34 ft.
 Right Overbank Length  :    320.2 ft               Maximum Section Area     : 1655.169 ft^2
                                                    Maximum hydraulic radius :     1.60 ft.
 Manning N :      0.080  to Station        4966.1    Max topwidth             :  1025.30 ft.
   "    "  :      0.015  in main Channel             Maximum Wetted Perimeter : 1.04E+03 ft
   "    "  :      0.080  Beyond station    5033.2    Max left bank area       :   812.33 ft^2
                                                    Max right bank area      :    84.45 ft^2
 Allowable Encroachment Depth :    0.00 ft           Max center channel area  : 758.3905 ft^2

*=================================================*
|          Table E1 - Conduit Data                |
*=================================================*
```

Inp Num	Conduit Name	Length (ft)	Conduit Class	Area (ft^2)	Manning Coef.	Max Width (ft)	Depth (ft)	Trapezoid Side Slopes
1	CI1-MH1	40.0000	Circular	1.7671	0.0130	1.5000	1.5000	
2	MH1-2	200.0000	Circular	3.1416	0.0130	2.0000	2.0000	
3	MH2-CI2	40.0000	Circular	4.9087	0.0130	2.5000	2.5000	
4	E11504_6	32.0000	Circular	7.0686	0.0130	3.0000	3.0000	
5	CI3A-3	118.2000	Circular	1.7671	0.0130	1.5000	1.5000	
6	CI3-MH3	40.0000	Circular	1.7671	0.0130	1.5000	1.5000	
7	MH3-01.0	180.0000	Circular	3.1416	0.0130	2.0000	2.0000	
8	CI4-MH4	40.0000	Circular	1.7671	0.0130	1.5000	1.5000	
9	Link191	200.0000	Circular	3.1416	0.0130	2.0000	2.0000	
10	CI2-MHI2	44.0000	Circular	3.1416	0.0130	2.0000	2.0000	
11	MHI2-I1	200.0000	Circular	4.9087	0.0130	2.5000	2.5000	
12	MHI4-J3	20.0000	Circular	4.9087	0.0130	2.5000	2.5000	

13	MHI5-4	200.0000	Circular	3.1416	0.0130	2.0000	2.0000		
14	MH-21-2	210.0000	Circular	3.1416	0.0130	2.0000	2.0000		
15	MH-20-1	320.0000	Circular	4.9087	0.0130	2.5000	2.5000		
16	MH-19-1	160.0000	Circular	7.0686	0.0130	3.0000	3.0000		
17	MH-18-1	190.0000	Circular	19.6350	0.0130	5.0000	5.0000		
18	MH16-J15	300.0000	Circular	19.6350	0.0130	5.0000	5.0000		
19	J15-J14	300.0000	Circular	19.6350	0.0130	5.0000	5.0000		
20	J14-MH13	300.0000	Circular	19.6350	0.0130	5.0000	5.0000		
21	MHI13-12	360.0000	Circular	23.7583	0.0130	5.5000	5.5000		
22	MH12-11	190.0000	Circular	38.4845	0.0130	7.0000	7.0000		
23	MH11-J10	260.0000	Circular	38.4845	0.0130	7.0000	7.0000		
24	J10-J9	280.0000	Circular	38.4845	0.0130	7.0000	7.0000		
25	J9-MH6	250.0000	Circular	38.4845	0.0130	7.0000	7.0000		
26	MH6-J3	570.0000	Circular	63.6173	0.0130	9.0000	9.0000		
27	J3-MH1	500.0000	Circular	63.6173	0.0130	9.0000	9.0000		
28	MH1-01.0	320.0000	Circular	63.6173	0.0130	9.0000	9.0000		
29	MH8-7	160.0000	Circular	3.1416	0.0130	2.0000	2.0000		
30	MH7-6	230.0000	Circular	38.4845	0.0130	7.0000	7.0000		
31	CI8-MH19	32.0000	Circular	3.1416	0.0130	2.0000	2.0000		
32	CI7-16	32.0000	Circular	3.1416	0.0130	2.0000	2.0000		
33	CI6-J1	32.0000	Circular	3.1416	0.0130	2.0000	2.0000		
34	CI5-J1	32.0000	Circular	3.1416	0.0130	2.0000	2.0000		
35	CI4-MH1	55.0000	Circular	3.1416	0.0130	2.0000	2.0000		
36	CI3-J1	32.0000	Circular	3.1416	0.0130	2.0000	2.0000		
37	CI1-MHI1	32.0000	Circular	3.1416	0.0130	2.0000	2.0000		
38	CI2C-CI2	227.6000	Circular	1.7671	0.0130	1.5000	1.5000		
39	CI2B-MH7	123.3000	Circular	1.7671	0.0130	1.5000	1.5000		
40	CI13I-1	270.0000	Circular	3.1416	0.0130	2.0000	2.0000		
41	CI12-MH2	70.0000	Circular	4.9087	0.0130	2.5000	2.5000		
42	MH25-2	160.0000	Circular	4.9087	0.0130	2.5000	2.5000		
43	MH24-CI1	170.0000	Circular	9.6211	0.0130	3.5000	3.5000		
44	CI11-1	400.0000	Circular	9.6211	0.0130	3.5000	3.5000		
45	CI10-MH2	190.0000	Circular	9.6211	0.0130	3.5000	3.5000		
46	MH23-CI9	310.0000	Circular	12.5664	0.0130	4.0000	4.0000		
47	CI9-MHI2	50.0000	Circular	12.5664	0.0130	4.0000	4.0000		
48	MH22-12	200.0000	Circular	15.9043	0.0130	4.5000	4.5000		
49	MH18s-18	49.4000	Circular	12.5664	0.0130	4.0000	4.0000		
50	MH24s-24	52.7000	Circular	3.1416	0.0130	2.0000	2.0000		
51	MH12s-12	62.1000	Circular	7.0686	0.0130	3.0000	3.0000		
52	MH7S-7	98.0000	Circular	38.4845	0.0130	7.0000	7.0000		
53	CI12A-12	60.0000	Circular	3.1416	0.0130	2.0000	2.0000		
54	CI13A-13	60.0000	Circular	3.1416	0.0130	2.0000	2.0000		
55	E115-01.3	254.7000	Natural	2565.9140	0.0150	1460.2000	18.4200		
56	E115-03.1	151.0000	Natural	1918.1985	0.0150	964.6000	18.4100		
57	E115-01.1	114.2000	Natural	1655.1693	0.0150	1025.3000	18.3400		
58	CI1-2	400.0000	Circular	3.1416	0.0130	2.0000	2.0000		
59	CI2-MH1	44.0000	Circular	3.1416	0.0130	2.0000	2.0000		
60	MH1-2.1	184.0000	Circular	4.9087	0.0130	2.5000	2.5000		
61	CI5-MH4	44.0000	Circular	3.1416	0.0130	2.0000	2.0000		
62	MH4-5	272.0000	Circular	4.9087	0.0130	2.5000	2.5000		
63	MH5-6	200.0000	Circular	9.6211	0.0130	3.5000	3.5000		
64	CI6-MH5	200.0000	Circular	4.9087	0.0130	2.5000	2.5000		
65	CI3-4	400.0000	Circular	3.1416	0.0130	2.0000	2.0000		
66	CI4-MH2	44.0000	Circular	3.1416	0.0130	2.0000	2.0000		
67	MH2-3	500.0000	Circular	12.5664	0.0130	4.0000	4.0000		
68	MH3-6	196.0000	Circular	12.5664	0.0130	4.0000	4.0000		
69	MH6-J7	204.0000	Circular	19.6350	0.0130	5.0000	5.0000		
70	J7-MH9	380.0000	Circular	19.6350	0.0130	5.0000	5.0000		
71	MH9-10	200.0000	Circular	19.6350	0.0130	5.0000	5.0000		
72	MH10-J11	208.0000	Circular	19.6350	0.0130	5.0000	5.0000		
73	J11-J12	248.0000	Circular	19.6350	0.0130	5.0000	5.0000		
74	CI14-M13	116.0000	Circular	4.9087	0.0130	2.5000	2.5000		
75	MH13-14	184.0000	Circular	4.9087	0.0130	2.5000	2.5000		
76	MH14-J15	200.0000	Circular	23.7583	0.0130	5.5000	5.5000		
77	J15-16	300.0000	Circular	23.7583	0.0130	5.5000	5.5000		
78	CI7-MH3	44.0000	Circular	3.1416	0.0130	2.0000	2.0000		
79	CI8-J7	32.0000	Circular	3.1416	0.0130	2.0000	2.0000		
80	MH8-9	55.0000	Circular	3.1416	0.0130	2.0000	2.0000		
81	CI9-MH10	32.0000	Circular	3.1416	0.0130	2.0000	2.0000		
82	CI10-J11	32.0000	Circular	3.1416	0.0130	2.0000	2.0000		
83	CI11-J12	32.0000	Circular	3.1416	0.0130	2.0000	2.0000		
84	CI14A-13	45.0000	Circular	1.7671	0.0130	1.5000	1.5000		
85	CI15A-14	53.4000	Circular	1.7671	0.0130	1.5000	1.5000		
86	CI15-J15	20.0000	Circular	3.1416	0.0130	2.0000	2.0000		
87	CI-16-to-M	44.0000	Circular	3.1416	0.0130	2.0000	2.0000		
88	CI12-MH17	44.0000	Circular	3.1416	0.0130	2.0000	2.0000		
89	CI-13-to-C	26.0000	Circular	1.7671	0.0130	1.5000	1.5000		
90	MH18o	100.0000	Circular	33.1831	0.0130	6.5000	6.5000		
91	MH17-18	196.0000	Circular	33.1831	0.0130	6.5000	6.5000		
92	MH16-17	188.0000	Circular	23.7583	0.0130	5.5000	5.5000		
93	J12-MH17	248.0000	Circular	19.6350	0.0130	5.0000	5.0000		
94	E11504_4	40.0000	Trapezoid	460.0000	0.0150	16.0000	10.0000	3.0000	3.0000
95	W43-14	174.0000	Circular	19.6350	0.0130	5.0000	5.0000		
96	E11504_5	338.0000	Circular	12.5664	0.0130	4.0000	4.0000		
97	L-COH1	160.0000	Circular	12.5664	0.0130	4.0000	4.0000		
98	11504.3	200.0000	Natural	3157.0840	0.0150	1378.6000	16.3900		
99	11504.4	600.0000	Natural	3157.0840	0.0150	1378.6000	16.3900		
100	11504.5	42.5000	Natural	787.7791	0.0150	290.9000	14.2300		
101	11504.6	428.0000	Natural	1525.3775	0.0150	816.3000	14.2300		
102	11504.7	63.7500	Natural	1525.3775	0.0150	816.3000	14.2300		
103	11504.8	778.0000	Natural	3367.3575	0.0150	1698.8200	15.6900		
104	E115-02	307.0000	Natural	1655.1693	0.0150	1025.3000	18.3400		
105	Link204	78.0000	Circular	4.9087	0.0130	2.5000	2.5000		
106	Link205	82.0000	Circular	15.9043	0.0130	4.5000	4.5000		
107	MH14s-MH14	49.5000	Circular	19.6350	0.0130	5.0000	5.0000		
108	Link207	189.1100	Circular	12.5664	0.0130	4.0000	4.0000		
109	Link208	364.9940	Circular	38.4845	0.0130	7.0000	7.0000		

Total length of all conduits .... 19184.4540 feet

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*================================================*
| If there are messages about (sqrt(g*d)*dt/dx), or |
| the sqrt(wave celerity)*time step/conduit length  |
| in the output file all it means is that the       |
| program will lower the internal time step to      |
| satisfy this condition (explicit condition).      |
| You control the actual internal time step by      |
| using the minimum courant time step factor in the |
| HYDRAULICS job control.  The message put in words |
| states that the smallest conduit with the fastest |
| velocity will control the time step selection.    |
| You have further control by using the modify      |
| conduit option in the HYDRAULICS Job Control.     |
*================================================*
```

Conduit Name	Courant Ratio	
CI1-MH1	1.74	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
MH1-2	0.40	
MH2-CI2	2.24	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
E11504_6	3.07	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
CI3A-3	0.59	
CI3-MH3	1.74	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
MH3-01.0	0.45	
CI4-MH4	1.74	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
Link191	0.40	
CI2-MHI2	1.82	===> Warning ! (sqrt(wave celerity)*time step/conduit length)

MHI2-I1	0.45	
MHI4-J3	2.99	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
MHI5-4	0.40	
MH-21-2	0.38	
MH-20-1	0.28	
MH-19-1	0.61	
MH-18-1	0.67	
MH16-J15	0.42	
J15-J14	0.42	
J14-MH13	0.42	
MHI13-12	0.37	
MH12-11	0.79	
MH11-J10	0.58	
J10-J9	0.54	
J9-MH6	0.60	
MH6-J3	0.30	
J3-MH1	0.34	
MH1-01.0	0.53	
MH8-7	0.50	
MH7-6	0.65	
CI8-MH19	2.51	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
CI7-16	2.51	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
CI6-J1	2.51	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
CI5-J1	2.51	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
CI4-MH1	1.46	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
CI3-J1	2.51	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
CI1-MHI1	2.51	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
CI2C-CI2	0.31	
CI2B-MH7	0.56	
CI13I-1	0.30	
CI12-MH2	1.28	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
MH25-2	0.56	
MH24-CI1	0.62	
CI11-1	0.27	
CI10-MH2	0.56	
MH23-CI9	0.37	
CI9-MHI2	2.27	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
MH22-12	0.60	
MH18s-18	2.30	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
MH24s-24	1.52	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
MH12s-12	1.58	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
MH7S-7	1.53	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
CI12A-12	1.34	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
CI13A-13	1.34	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
E115-01.3	0.25	
E115-03.1	0.47	
E115-01.1	0.71	
CI1-2	0.20	
CI2-MH1	1.82	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
MH1-2.1	0.49	
CI5-MH4	1.82	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
MH4-5	0.33	
MH5-6	0.53	
CI6-MH5	0.45	
CI3-4	0.20	
CI4-MH2	1.82	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
MH2-3	0.23	
MH3-6	0.58	
MH6-J7	0.62	
J7-MH9	0.33	
MH9-10	0.63	
MH10-J11	0.61	
J11-J12	0.51	
CI14-M13	0.77	
MH13-14	0.49	
MH14-J15	0.67	
J15-16	0.44	
CI7-MH3	1.82	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
CI8-J7	2.51	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
MH8-9	1.46	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
CI9-MH10	2.51	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
CI10-J11	2.51	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
CI11-J12	2.51	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
CI14A-13	1.54	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
CI15A-14	1.30	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
CI15-J15	2.67	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
CI-16-to-M	1.82	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
CI12-MH17	1.82	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
CI-13-to-C	2.32	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
MH18o	1.45	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
MH17-18	0.74	
MH16-17	0.71	
J12-MH17	0.51	
E11504_4	3.49	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
W43-14	0.73	
E11504_5	0.34	
L-COH1	0.71	
11504.3	0.43	
11504.4	0.14	
11504.5	2.20	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
11504.6	0.18	
11504.7	1.22	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
11504.8	0.10	
E115-02	0.26	
Link204	1.15	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
Link205	1.47	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
MH14s-MH14	2.56	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
Link207	0.60	
Link208	0.41	

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| Conduit Volume |
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Full pipe or full open conduit volume
Input full depth volume..... 7.8887E+06 cubic feet

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| Table E3a - Junction Data |
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Inp Num	Junction Name	Ground Elevation	Crown Elevation	Invert Elevation	Qinst cfs	Initial Depth-ft	Interface Flow (%)
1	MHI-2	67.7400	67.7400	63.3200	0.0000	0.0000	100.0000
2	MHI-1	67.5800	67.5800	63.8200	0.0000	0.0000	100.0000
3	CI-3A	67.3600	67.3600	63.9200	0.0000	0.0000	100.0000
4	MHI-4	67.0500	67.0500	62.9800	0.0000	0.0000	100.0000
5	CI-3	67.9200	67.9200	63.8100	0.0000	0.0000	100.0000
6	MHI-3	68.0000	68.0000	62.7200	0.0000	0.0000	100.0000
7	CI-1	68.4600	68.4600	65.0200	0.0000	0.0000	100.0000
8	CI-2	67.6100	67.6100	63.1800	0.0000	0.0000	100.0000
9	E11504.6	72.6200	72.6200	58.0100	0.0000	0.0000	100.0000
10	CI-4	69.5800	69.5800	63.5200	0.0000	0.0000	100.0000
11	MHI-4.1	71.9800	71.9800	59.0000	0.0000	0.0000	100.0000
12	CI-1.1	66.1800	66.1800	58.7600	0.0000	0.0000	100.0000
13	MHI-1.1	65.1600	65.1600	51.7600	0.0000	0.0000	100.0000

14	MHI-2.1	66.1200	66.1200	58.5000	0.0000	0.0000	100.0000
15	CI-2.1	67.9800	67.9800	59.0400	0.0000	0.0000	100.0000
16	JCT-3	69.8100	69.8100	52.4600	0.0000	0.0000	100.0000
17	MH-7	73.0000	73.0000	55.5900	0.0000	0.0000	100.0000
18	MH-6	67.7100	67.7100	53.2000	0.0000	0.0000	100.0000
19	JCT-10	73.0000	73.0000	55.7900	0.0000	0.0000	100.0000
20	CI-3.1	69.8600	69.8600	60.8900	0.0000	0.0000	100.0000
21	MHI-22	70.9900	70.9900	59.0100	0.0000	0.0000	100.0000
22	CI-9	69.0700	69.0700	59.5700	0.0000	0.0000	100.0000
23	MHI-13	70.0950	70.0950	58.1500	0.0000	0.0000	100.0000
24	JCT-14	69.3300	69.3300	59.0100	0.0000	0.0000	100.0000
25	MH-23	68.5100	68.5100	59.8800	0.0000	0.0000	100.0000
26	MH-16	67.7400	67.7400	59.6400	0.0000	0.0000	100.0000
27	CI-7	67.1700	67.1700	62.7000	0.0000	0.0000	100.0000
28	MH-24	68.1600	68.1600	61.2200	0.0000	0.0000	100.0000
29	MH-25	68.0800	68.0800	62.4100	0.0000	0.0000	100.0000
30	CI-12	67.6000	67.6000	62.4900	0.0000	0.0000	100.0000
31	CI-8	67.3100	67.3100	62.9800	0.0000	0.0000	100.0000
32	MH-19	67.6900	67.6900	61.9500	0.0000	0.0000	100.0000
33	MH-20	70.6300	70.6300	62.8100	0.0000	0.0000	100.0000
34	MH-21	70.3600	70.3600	63.6300	0.0000	0.0000	100.0000
35	CI-11	67.1300	67.1300	61.0500	0.0000	0.0000	100.0000
36	JCT-15	68.3800	68.3800	59.3400	0.0000	0.0000	100.0000
37	MH-18	68.1800	68.1800	59.7900	0.0000	0.0000	100.0000
38	CI-4.1	70.3700	70.3700	61.8100	0.0000	0.0000	100.0000
39	BRCKH01.0	70.0100	70.0100	51.2400	0.0000	0.0000	100.0000
40	MHI-5	73.2000	73.2000	59.9000	0.0000	0.0000	100.0000
41	CI-2B	67.8300	67.8300	64.9600	0.0000	0.0000	100.0000
42	CI-2C	67.7600	67.7600	65.2100	0.0000	0.0000	100.0000
43	MH-7S2	68.2400	68.2400	55.7300	0.0000	0.0000	100.0000
44	MH-8	74.0400	74.0400	60.9100	0.0000	0.0000	100.0000
45	JCT-9	67.8500	67.8500	55.4800	0.0000	0.0000	100.0000
46	MHI-12	74.3100	74.3100	56.2900	0.0000	0.0000	100.0000
47	CI-10	68.2600	68.2600	60.6500	0.0000	0.0000	100.0000
48	MHI-12S	70.7000	70.7000	60.4100	0.0000	0.0000	100.0000
49	MH-11	75.5800	75.5800	56.0800	0.0000	0.0000	100.0000
50	CI-5	70.0400	70.0400	62.0700	0.0000	0.0000	100.0000
51	CI-6	68.4500	68.4500	62.4000	0.0000	0.0000	100.0000
52	MH-18S2	67.9000	67.9000	60.8400	0.0000	0.0000	100.0000
53	MH-24S	67.3700	67.3700	64.1000	0.0000	0.0000	100.0000
54	CI-13	68.1000	68.1000	63.3900	0.0000	0.0000	100.0000
55	CI-12A	67.9700	67.9700	62.5900	0.0000	0.0000	100.0000
56	CI-13A	68.6400	68.6400	63.4500	0.0000	0.0000	100.0000
57	BRCKH01.3	71.8000	71.8000	51.5800	0.0000	0.0000	100.0000
58	BRCKH01.2	71.8000	71.8000	51.3900	0.0000	0.0000	100.0000
59	BRCKH00.1	70.0100	70.0100	50.9600	0.0000	0.0000	100.0000
60	MH-13	71.7600	71.7600	66.0200	0.0000	0.0000	100.0000
61	MH-9	71.5700	71.5700	63.6600	0.0000	0.0000	100.0000
62	MH-10	71.1800	71.1800	63.4000	0.0000	0.0000	100.0000
63	CI-9.1	70.9500	70.9500	68.6100	0.0000	0.0000	100.0000
64	CI-10.1	70.5100	70.5100	66.8100	0.0000	0.0000	100.0000
65	CI-11.1	69.9200	69.9200	65.7404	0.0000	0.0000	100.0000
66	CI-12.1	69.6000	69.6000	65.5700	0.0000	0.0000	100.0000
67	MHI-17	70.4000	70.4000	60.8400	0.0000	0.0000	100.0000
68	CI-13.1	69.1700	69.1700	65.5320	0.0000	0.0000	100.0000
69	MHI-16	70.9700	70.9700	62.3400	0.0000	0.0000	100.0000
70	MHI-18	70.8500	70.8500	60.4900	0.0000	0.0000	100.0000
71	CI-16	70.1700	70.1700	66.0000	0.0000	0.0000	100.0000
72	JCT-11	70.3100	68.1100	63.1100	0.0000	0.0000	100.0000
73	JCT-12	70.5300	70.5300	62.7400	0.0000	0.0000	100.0000
74	MH-8.1	72.4100	72.4100	67.8100	0.0000	0.0000	100.0000
75	MHI-6	72.2100	72.2100	64.3600	0.0000	0.0000	100.0000
76	CI-8.1	71.8100	71.8100	69.8100	0.0000	0.0000	100.0000
77	JCT-7	72.3100	72.3100	64.1152	0.0000	0.0000	100.0000
78	CI-7.1	73.8600	73.8600	70.0500	0.0000	0.0000	100.0000
79	MHI-3.1	74.1000	74.1000	66.6500	0.0000	0.0000	100.0000
80	CI-4.2	74.3400	74.3400	69.6300	0.0000	0.0000	100.0000
81	MHI-2.2	77.2400	77.2400	67.5000	0.0000	0.0000	100.0000
82	CI-3.2	75.5700	75.5700	70.8300	0.0000	0.0000	100.0000
83	CI-1.2	76.3000	76.3000	70.9500	0.0000	0.0000	100.0000
84	CI-2.2	74.8300	74.8300	69.8100	0.0000	0.0000	100.0000
85	CI-5.1	73.6400	73.6400	69.3100	0.0000	0.0000	100.0000
86	MHI-4.2	74.4400	74.4400	67.6900	0.0000	0.0000	100.0000
87	MHI-1.2	76.2500	76.2500	69.2200	0.0000	0.0000	100.0000
88	MHI-5.1	74.0000	74.0000	66.1700	0.0000	0.0000	100.0000
89	CI-6.1	71.3800	71.3800	67.3100	0.0000	0.0000	100.0000
90	CI-14	71.2500	71.2500	66.1400	0.0000	0.0000	100.0000
91	CI-14A	71.8100	71.8100	70.3100	0.0000	0.0000	100.0000
92	CI-15A	71.2700	71.2700	68.3100	0.0000	0.0000	100.0000
93	MH-14	71.5000	71.5000	62.8400	0.0000	0.0000	100.0000
94	W43RD	72.5700	72.5700	63.7380	0.0000	0.0000	100.0000
95	CI-15	70.5000	70.5000	66.8100	0.0000	0.0000	100.0000
96	JCT-15.1	70.9200	70.9200	62.6400	0.0000	0.0000	100.0000
97	CI-131	70.3100	70.3100	60.3100	0.0000	0.0000	100.0000
98	E11504.4	75.1600	75.1600	58.3300	0.0000	0.0000	100.0000
99	COH1	68.1900	65.8400	61.8400	0.0000	0.0000	100.0000
100	E11504.5	75.1600	75.1600	58.0200	0.0000	0.0000	100.0000
101	COH01	68.0400	68.0400	62.1600	0.0000	0.0000	100.0000
102	E11504.3	75.2300	75.2300	58.4800	0.0000	0.0000	100.0000
103	E11504.7	72.6100	72.6100	57.3400	0.0000	0.0000	100.0000
104	E11504.8	73.2900	73.2900	57.2300	0.0000	0.0000	100.0000
105	BRCKH01.1	70.5000	70.5000	51.2700	0.0000	0.0000	100.0000
106	J-CI-2	69.0700	69.0700	62.2300	0.0000	0.0000	100.0000
107	J-COH1	70.3900	65.1600	56.5900	0.0000	0.0000	100.0000
108	E5150100	70.0000	60.9300	56.4300	0.0000	0.0000	100.0000
109	MH-14s	72.5000	72.5000	63.3900	0.0000	0.0000	100.0000
110	MH-18S	68.3500	66.4200	62.4200	0.0000	0.0000	100.0000
111	MH-7S	71.6300	71.6300	56.1100	0.0000	0.0000	100.0000

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| Table E3b - Junction Data |
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Inp Num	Junction Name	X Coord.	Y Coord.	Type of Manhole	Type of Inlet	Maximum Capacity	Pavement Shape	Pavement Slope
1	MHI-2	3.084000E+06	13.86440E+06	F	Normal		0	0.0000
2	MHI-1	3.084000E+06	13.86470E+06	F	Normal		0	0.0000
3	CI-3A	3.084400E+06	13.86480E+06	F	Normal		0	0.0000
4	MHI-4	3.084600E+06	13.86440E+06	F	Normal		0	0.0000
5	CI-3	3.084600E+06	13.86480E+06	F	Normal		0	0.0000
6	MHI-3	3.084600E+06	13.86470E+06	F	Normal		0	0.0000
7	CI-1	3.084000E+06	13.86480E+06	F	Normal		0	0.0000
8	CI-2	3.084008E+06	13.86428E+06	F	Normal		0	0.0000
9	E11504.6	3.082980E+06	13.86387E+06	F	Normal		0	0.0000
10	CI-4	3.084600E+06	13.86430E+06	F	Normal		0	0.0000
11	MHI-4.1	3.086000E+06	13.86460E+06	F	Normal		0	0.0000
12	CI-1.1	3.085700E+06	13.86480E+06	F	Normal		0	0.0000
13	MHI-1.1	3.085700E+06	13.86470E+06	F	Normal		0	0.0000
14	MHI-2.1	3.085700E+06	13.86460E+06	F	Normal		0	0.0000
15	CI-2.1	3.085700E+06	13.86450E+06	F	Normal		0	0.0000
16	JCT-3	3.086000E+06	13.86470E+06	F	Normal		0	0.0000
17	MH-7	3.086600E+06	13.86460E+06	F	Normal		0	0.0000
18	MH-6	3.086600E+06	13.86470E+06	F	Normal		0	0.0000
19	JCT-10	3.087200E+06	13.86470E+06	F	Normal		0	0.0000
20	CI-3.1	3.087200E+06	13.86490E+06	F	Normal		0	0.0000
21	MHI-22	3.087600E+06	13.86430E+06	F	Normal		0	0.0000

22	CI-9	3.087800E+06	13.86429E+06		F	Normal	0	0.0000
23	MHI-13	3.088000E+06	13.86470E+06		F	Normal	0	0.0000
24	JCT-14	3.088300E+06	13.86470E+06		F	Normal	0	0.0000
25	MH-23	3.088000E+06	13.86430E+06		F	Normal	0	0.0000
26	MH-16	3.088900E+06	13.86470E+06		F	Normal	0	0.0000
27	CI-7	3.088900E+06	13.86490E+06		F	Normal	0	0.0000
28	MH-24	3.088900E+06	13.86430E+06		F	Normal	0	0.0000
29	MH-25	3.089200E+06	13.86430E+06		F	Normal	0	0.0000
30	CI-12	3.089500E+06	13.86430E+06		F	Normal	0	0.0000
31	CI-8	3.089500E+06	13.86490E+06		F	Normal	0	0.0000
32	MH-19	3.089500E+06	13.86470E+06		F	Normal	0	0.0000
33	MH-20	3.089900E+06	13.86470E+06		F	Normal	0	0.0000
34	MH-21	3.090200E+06	13.86470E+06		F	Normal	0	0.0000
35	CI-11	3.088600E+06	13.86430E+06		F	Normal	0	0.0000
36	JCT-15	3.088600E+06	13.86470E+06		F	Normal	0	0.0000
37	MH-18	3.089200E+06	13.86470E+06		F	Normal	0	0.0000
38	CI-4.1	3.088000E+06	13.86490E+06		F	Normal	0	0.0000
39	BRCKH01.0	3.085196E+06	13.86470E+06		F	Normal	0	0.0000
40	MHI-5	3.086000E+06	13.86450E+06		F	Normal	0	0.0000
41	CI-2B	3.086400E+06	13.86460E+06		F	Normal	0	0.0000
42	CI-2C	3.086300E+06	13.86460E+06		F	Normal	0	0.0000
43	MH-7S2	3.086667E+06	13.86439E+06		F	Normal	0	0.0000
44	MH-8	3.086800E+06	13.86460E+06		F	Normal	0	0.0000
45	JCT-9	3.086900E+06	13.86470E+06		F	Normal	0	0.0000
46	MHI-12	3.087600E+06	13.86470E+06		F	Normal	0	0.0000
47	CI-10	3.088300E+06	13.86430E+06		F	Normal	0	0.0000
48	MHI-12S	3.087600E+06	13.86490E+06		F	Normal	0	0.0000
49	MH-11	3.087400E+06	13.86470E+06		F	Normal	0	0.0000
50	CI-5	3.088300E+06	13.86490E+06		F	Normal	0	0.0000
51	CI-6	3.088600E+06	13.86490E+06		F	Normal	0	0.0000
52	MH-18S2	3.089200E+06	13.86510E+06		F	Normal	0	0.0000
53	MH-24S	3.088900E+06	13.86410E+06		F	Normal	0	0.0000
54	CI-13	3.089900E+06	13.86430E+06		F	Normal	0	0.0000
55	CI-12A	3.089500E+06	13.86410E+06		F	Normal	0	0.0000
56	CI-13A	3.089900E+06	13.86410E+06		F	Normal	0	0.0000
57	BRCKH01.3	3.085202E+06	13.86359E+06		F	Normal	0	0.0000
58	BRCKH01.2	3.085202E+06	13.86385E+06		F	Normal	0	0.0000
59	BRCKH00.1	3.085396E+06	13.86519E+06		F	Normal	0	0.0000
60	MH-13	3.080023E+06	13.86473E+06		F	Normal	0	0.0000
61	MH-9	3.079823E+06	13.86443E+06		F	Normal	0	0.0000
62	MH-10	3.080123E+06	13.86443E+06		F	Normal	0	0.0000
63	CI-9.1	3.080123E+06	13.86433E+06		F	Normal	0	0.0000
64	CI-10.1	3.080423E+06	13.86433E+06		F	Normal	0	0.0000
65	CI-11.1	3.080823E+06	13.86433E+06		F	Normal	0	0.0000
66	CI-12.1	3.081123E+06	13.86433E+06		F	Normal	0	0.0000
67	MHI-17	3.081127E+06	13.86442E+06		F	Normal	0	0.0000
68	CI-13.1	3.081623E+06	13.86432E+06		F	Normal	0	0.0000
69	MHI-16	3.081127E+06	13.86472E+06		F	Normal	0	0.0000
70	MHI-18	3.081723E+06	13.86443E+06		F	Normal	0	0.0000
71	CI-16	3.081123E+06	13.86483E+06		F	Normal	0	0.0000
72	JCT-11	3.080423E+06	13.86443E+06			Normal	0	0.0000
73	JCT-12	3.080823E+06	13.86443E+06		F	Normal	0	0.0000
74	MH-8.1	3.079723E+06	13.86433E+06		F	Normal	0	0.0000
75	MHI-6	3.079023E+06	13.86443E+06		F	Normal	0	0.0000
76	CI-8.1	3.079423E+06	13.86433E+06		F	Normal	0	0.0000
77	JCT-7	3.079423E+06	13.86443E+06		F	Normal	0	0.0000
78	CI-7.1	3.078623E+06	13.86433E+06		F	Normal	0	0.0000
79	MHI-3.1	3.078623E+06	13.86443E+06		F	Normal	0	0.0000
80	CI-4.2	3.078223E+06	13.86433E+06		F	Normal	0	0.0000
81	MHI-2.2	3.078223E+06	13.86443E+06		F	Normal	0	0.0000
82	CI-3.2	3.077923E+06	13.86433E+06		F	Normal	0	0.0000
83	CI-1.2	3.077923E+06	13.86483E+06		F	Normal	0	0.0000
84	CI-2.2	3.078223E+06	13.86483E+06		F	Normal	0	0.0000
85	CI-5.1	3.078723E+06	13.86483E+06		F	Normal	0	0.0000
86	MHI-4.2	3.078723E+06	13.86473E+06		F	Normal	0	0.0000
87	MHI-1.2	3.078223E+06	13.86473E+06		F	Normal	0	0.0000
88	MHI-5.1	3.079023E+06	13.86473E+06		F	Normal	0	0.0000
89	CI-6.1	3.079223E+06	13.86483E+06		F	Normal	0	0.0000
90	CI-14	3.079823E+06	13.86483E+06		F	Normal	0	0.0000
91	CI-14A	3.079923E+06	13.86463E+06		F	Normal	0	0.0000
92	CI-15A	3.080223E+06	13.86463E+06		F	Normal	0	0.0000
93	MH-14	3.080329E+06	13.86473E+06		F	Normal	0	0.0000
94	W43RD	3.080329E+06	13.86492E+06		F	Normal	0	0.0000
95	CI-15	3.080723E+06	13.86483E+06		F	Normal	0	0.0000
96	JCT-15.1	3.080723E+06	13.86473E+06		F	Normal	0	0.0000
97	CI-131	3.081826E+06	13.86432E+06		F	Normal	0	0.0000
98	E11504.4	3.081988E+06	13.86387E+06		F	Normal	0	0.0000
99	COH1	3.083600E+06	13.86470E+06			Normal	0	0.0000
100	E11504.5	3.082686E+06	13.86387E+06		F	Normal	0	0.0000
101	COH01	3.083600E+06	13.86499E+06		F	Normal	0	0.0000
102	E11504.3	3.081532E+06	13.86371E+06		F	Normal	0	0.0000
103	E11504.7	3.083592E+06	13.86387E+06		F	Normal	0	0.0000
104	E11504.8	3.084001E+06	13.86385E+06		F	Normal	0	0.0000
105	BRCKH01.1	3.085198E+06	13.86428E+06		F	Normal	0	0.0000
106	J-CI-2	3.084005E+06	13.86412E+06		F	Normal	0	0.0000
107	J-COH1	3.083605E+06	13.86411E+06	No	P	Normal	0	0.0000
108	E5150100	3.083604E+06	13.86399E+06	No	P	Normal	0	0.0000
109	MH-14s	3.080330E+06	13.86475E+06		F	Normal	0	0.0000
110	MH-18S	3.089200E+06	13.86529E+06	No	P	Normal	0	0.0000
111	MH-7S	3.086727E+06	13.86420E+06		F	Normal	0	0.0000

Table E4 - Conduit Connectivity

Input Number	Conduit Name	Upstream Node	Downstream Node	Upstream Elevation	Downstream Elevation	
1	CI1-MH1	CI-1	MHI-1	65.0200	64.9600	No Design
2	MH1-2	MHI-1	MHI-2	64.4600	63.8200	No Design
3	MH2-CI2	MHI-2	CI-2	63.3200	63.1800	No Design
4	E11504_6	CI-2	J-CI-2	63.1800	62.2300	No Design
5	CI3A-3	CI-3A	CI-3	63.9200	63.8100	No Design
6	CI3-MH3	CI-3	MHI-3	63.8100	63.7700	No Design
7	MH3-01.0	MHI-3	BRCKH01.0	62.7200	62.3100	No Design
8	CI4-MH4	CI-4	MHI-4	63.5200	63.4800	No Design
9	Link191	MHI-4	MHI-3	62.9800	62.7200	No Design
10	CI2-MHI2	CI-2.1	MHI-2.1	59.0400	59.0000	No Design
11	MHI2-I1	MHI-2.1	MHI-1.1	58.5000	58.2600	No Design
12	MHI4-J3	MHI-4.1	JCT-3	59.0000	58.9600	No Design
13	MHI5-4	MHI-5	MHI-4.1	59.9000	59.5000	No Design
14	MH-21-2	MH-21	MH-20	63.6300	63.3100	No Design
15	MH-20-1	MH-20	MH-19	62.8100	62.4500	No Design
16	MH-19-1	MH-19	MH-18	61.9500	61.7900	No Design
17	MH-18-1	MH-18	MH-16	59.7900	59.6400	No Design
18	MH16-J15	MH-16	JCT-15	59.6400	59.3400	No Design
19	J15-J14	JCT-15	JCT-14	59.3400	59.0100	No Design
20	J14-MH13	JCT-14	MHI-13	59.0100	58.6500	No Design
21	MHI13-12	MHI-13	MHI-12	58.1500	57.7900	No Design
22	MH12-11	MHI-12	MH-11	56.2900	56.0800	No Design
23	MH11-J10	MH-11	JCT-10	56.0800	55.7900	No Design
24	J10-J9	JCT-10	JCT-9	55.7900	55.4800	No Design
25	J9-MH6	JCT-9	MH-6	55.4800	55.2000	No Design
26	MH6-J3	MH-6	JCT-3	53.2000	52.4600	No Design
27	J3-MH1	JCT-3	MHI-1.1	52.4600	51.7600	No Design
28	MH1-01.0	MHI-1.1	BRCKH01.0	51.7600	51.3100	No Design
29	MH8-7	MH-8	MH-7	60.9100	60.5900	No Design

30	MH7-6	MH-7	MH-6	55.5900	55.2000	No Design
31	CI8-MH19	CI-8	MH-19	62.9800	62.9500	No Design
32	CI7-16	CI-7	MH-16	62.7000	62.6400	No Design
33	CI6-J1	CI-6	JCT-15	62.4000	62.3400	No Design
34	CI5-J1	CI-5	JCT-14	62.0700	62.0100	No Design
35	CI4-MH1	CI-4.1	MHI-13	61.8100	61.6500	No Design
36	CI3-J1	CI-3.1	JCT-10	60.8900	60.7900	No Design
37	CI1-MHI1	CI-1.1	MHI-1.1	58.7600	58.6610	No Design
38	CI2C-CI2	CI-2C	CI-2B	65.2100	64.9600	No Design
39	CI2B-MH7	CI-2B	MH-7	64.9600	64.5600	No Design
40	CI13I-1	CI-13	CI-12	63.3900	62.9900	No Design
41	CI12-MH2	CI-12	MH-25	62.4900	62.4100	No Design
42	MH25-2	MH-25	MH-24	62.4100	62.2200	No Design
43	MH24-CI1	MH-24	CI-11	61.2200	61.0500	No Design
44	CI11-1	CI-11	CI-10	61.0500	60.6500	No Design
45	CI10-MH2	CI-10	MH-23	60.6500	60.3800	No Design
46	MH23-CI9	MH-23	CI-9	59.8800	59.5700	No Design
47	CI9-MHI2	CI-9	MHI-22	59.5700	59.5100	No Design
48	MH22-12	MHI-22	MHI-12	59.0100	58.7900	No Design
49	MH18s-18	MH-18S2	MH-18	60.8400	60.7900	No Design
50	MH24s-24	MH-24S	MH-24	64.1000	62.7200	No Design
51	MH12s-12	MHI-12S	MHI-12	60.4100	60.2900	No Design
52	MH7S-7	MH-7S2	MH-7	55.7300	55.5900	No Design
53	CI12A-12	CI-12A	CI-12	62.5900	62.4900	No Design
54	CI13A-13	CI-13A	CI-13	63.4500	63.3900	No Design
55	E115-01.3	BRCKH01.3	BRCKH01.2	51.5800	51.3900	No Design
56	E115-03.1	BRCKH01.2	BRCKH01.1	51.3900	51.2700	No Design
57	E115-01.1	BRCKH01.0	BRCKH00.1	51.2400	50.9600	No Design
58	CI1-2	CI-1.2	CI-2.2	70.9500	70.3100	No Design
59	CI2-MH1	CI-2.2	MHI-1.2	69.8100	69.7200	No Design
60	MH1-2.1	MHI-1.2	MHI-2.2	69.2200	69.0000	No Design
61	CI5-MH4	CI-5.1	MHI-4.2	69.3100	69.2400	No Design
62	MH4-5	MHI-4.2	MHI-5.1	67.6900	67.3100	No Design
63	MH5-6	MHI-5.1	MHI-6	66.1700	65.9300	No Design
64	CI6-MH5	CI-6.1	MHI-5.1	67.3100	67.1700	No Design
65	CI3-4	CI-3.2	CI-4.2	70.8300	69.6300	No Design
66	CI4-MH2	CI-4.2	MHI-2.2	69.6300	69.5000	No Design
67	MH2-3	MHI-2.2	MHI-3.1	67.5000	66.8500	No Design
68	MH3-6	MHI-3.1	MHI-6	66.6500	66.3600	No Design
69	MH6-J7	MHI-6	JCT-7	64.3600	64.1152	No Design
70	J7-MH9	JCT-7	MH-9	64.1152	63.6600	No Design
71	MH9-10	MH-9	MH-10	63.6600	63.4000	No Design
72	MH10-J11	MH-10	JCT-11	63.4000	63.1100	No Design
73	J11-J12	JCT-11	JCT-12	63.1100	62.7400	No Design
74	CI14-M13	CI-14	MH-13	66.1400	66.0200	No Design
75	MH13-14	MH-13	MH-14	66.0200	65.8400	No Design
76	MH14-J15	MH-14	JCT-15.1	62.8400	62.6400	No Design
77	J15-16	JCT-15.1	MHI-16	62.6400	62.3400	No Design
78	CI7-MH3	CI-7.1	MHI-3.1	70.0500	70.0060	No Design
79	CI8-J7	CI-8.1	JCT-7	69.8100	69.1222	No Design
80	MH8-9	MH-8.1	MH-9	67.8100	67.7600	No Design
81	CI9-MH10	CI-9.1	MH-10	68.6100	68.5800	No Design
82	CI10-J11	CI-10.1	JCT-11	66.8100	66.1060	No Design
83	CI11-J12	CI-11.1	JCT-12	66.3104	65.7400	No Design
84	CI14A-13	CI-14A	MH-13	70.3100	70.2200	No Design
85	CI15A-14	CI-15A	MH-14	68.3100	68.2030	No Design
86	CI15-J15	CI-15	JCT-15.1	66.8100	66.7100	No Design
87	CI-16-to-M	CI-16	MHI-16	66.0400	66.0000	No Design
88	CI12-MH17	CI-12.1	MHI-17	65.6100	65.5700	No Design
89	CI-13-to-C	CI-13.1	CI-131	65.6100	65.5320	No Design
90	MH18o	MHI-18	CI-131	60.4900	60.3100	No Design
91	MH17-18	MHI-17	MHI-18	60.8400	60.4900	No Design
92	MH16-17	MHI-16	MHI-17	62.3400	62.1100	No Design
93	J12-MH17	JCT-12	MHI-17	62.7400	62.3900	No Design
94	E11504_4	CI-131	E11504.4	60.3100	60.2700	No Design
95	W43-14	W43RD	MH-14s	63.7380	63.3900	No Design
96	E11504_5	COH1	J-COH1	61.8400	61.1600	No Design
97	L-COH1	COH01	COH1	62.1600	61.8400	No Design
98	11504.3	E11504.3	E11504.4	58.4800	58.3300	No Design
99	11504.4	E11504.4	E11504.5	58.3300	58.0200	No Design
100	11504.5	E11504.5	E11504.6	58.0200	58.0100	No Design
101	11504.6	E11504.6	E11504.7	58.0100	57.3400	No Design
102	11504.7	E11504.7	E11504.8	57.3400	57.2300	No Design
103	11504.8	E11504.8	BRCKH01.2	57.2300	55.8300	No Design
104	E115-02	BRCKH01.1	BRCKH01.0	51.2700	51.2400	No Design
105	Link204	J-CI-2	J-COH1	62.2300	61.3400	No Design
106	Link205	J-COH1	E5150100	56.5900	56.4300	No Design
107	MH14s-MH14	MH-14s	MH-14	63.3900	63.3400	No Design
108	Link207	MH-18S	MH-18S2	62.4200	61.9170	No Design
109	Link208	MH-7S	MH-7S2	56.1100	55.7300	No Design

====> Warning !!! Node: CI-1.1 Area decreases between stages 11.740 and 12.240

====> Warning !!! Node: CI-3.1 Area decreases between stages 11.210 and 11.710

====> Warning !!! Node: MHI-22 Area decreases between stages 11.710 and 12.210

====> Warning !!! Node: CI-2C Area decreases between stages 5.540 and 5.580

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| Storage Junction Data |
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STORAGE JUNCTION NUMBER OR NAME	JUNCTION TYPE	MAXIMUM OR CONSTANT SURFACE AREA (FT2)	PEAK OR CONSTANT VOLUME (CUBIC FEET)	CROWN ELEVATION (FT)	DEPTH STARTS FROM
CI-3	Stage/Area	12719.5200	45792.2158	67.9200	Spill Crest
CI-1	Stage/Area	12719.5200	37270.1374	68.4600	Spill Crest
CI-2	Stage/Area	12719.5200	49862.4622	67.6100	Spill Crest
CI-4	Stage/Area	12719.5200	70595.2798	69.5800	Spill Crest
CI-1.1	Stage/Area	33541.2000	98013.1761	66.1800	Node Invert
CI-3.1	Stage/Area	51836.4000	44895.4083	69.8600	Node Invert
MHI-22	Stage/Area	4791.6000	6451.2750	70.9900	Node Invert
CI-9	Stage/Area	12719.5200	114350.4286	69.0700	Spill Crest
MHI-13	Stage/Area	4356.0000	4213.0623	70.0950	Node Invert
CI-12	Stage/Area	12719.5200	58511.7358	67.6000	Spill Crest
CI-8	Stage/Area	12719.5200	48590.5102	67.3100	Spill Crest
CI-11	Stage/Area	12719.5200	70849.6702	67.1300	Spill Crest
CI-2B	Stage/Area	14374.8000	28369.4929	67.8300	Node Invert
CI-2C	Stage/Area	174675.6000	308985.8958	67.7600	Node Invert
CI-10	Stage/Area	12719.5200	90310.5358	68.2600	Spill Crest
CI-5	Stage/Area	12719.5200	94889.5630	70.0400	Spill Crest
CI-6	Stage/Area	12719.5200	70468.0846	68.4500	Spill Crest
CI-12.1	Stage/Area	12719.5200	44774.6542	69.6000	Spill Crest
CI-13.1	Stage/Area	20081.1600	15806.5665	69.1700	Node Invert
CI-16	Stage/Area	12719.5200	46555.3870	70.1700	Spill Crest
CI-8.1	Stage/Area	20081.1600	15800.0325	71.8100	Node Invert
CI-4.2	Stage/Area	12719.5200	53423.9278	74.3400	Spill Crest
CI-2.2	Stage/Area	12719.5200	57366.9790	74.8300	Spill Crest
CI-5.1	Stage/Area	12719.5200	48590.5102	73.6400	Spill Crest
CI-6.1	Stage/Area	20081.1600	15810.8354	71.3800	Node Invert
CI-14	Stage/Area	20081.1600	15813.3619	71.2500	Node Invert
CI-14A	Stage/Area	20081.1600	15798.2030	71.8100	Node Invert
CI-15A	Stage/Area	20081.1600	15806.4794	71.2700	Node Invert
W43RD	Stage/Area	67953.6000	556007.7226	72.5700	Spill Crest
COH01	Stage/Area	202554.0000	940900.7589	68.0400	Spill Crest

MH-18S Stage/Area	651657.6000	1.727759E+06	68.3500	Spill Crest
MH-7S Stage/Area	4.449654E+06	64.263774E+06	71.6300	Spill Crest

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| Variable storage data for node | CI-3
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	63.8100	0.0000	4.3560	0.0000	0.0001	0.0000
2	63.8350	0.0250	150.8265	1.5068	0.0035	0.0000
3	63.8600	0.0500	297.2970	7.0058	0.0068	0.0002
4	63.8850	0.0750	443.7675	16.2082	0.0102	0.0004
5	63.9100	0.1000	590.2380	29.0898	0.0135	0.0007
6	63.9350	0.1250	736.7085	45.6428	0.0169	0.0010
7	63.9600	0.1500	883.1790	65.8638	0.0203	0.0015
8	63.9850	0.1750	1029.6495	89.7507	0.0236	0.0021
9	64.0100	0.2000	1176.1200	117.3026	0.0270	0.0027
10	64.0350	0.2250	1475.5950	150.3783	0.0339	0.0035
11	64.0600	0.2500	1775.0700	190.9540	0.0408	0.0044
12	64.0850	0.2750	2074.5450	239.0256	0.0476	0.0055
13	64.1100	0.3000	2374.0200	294.5906	0.0545	0.0068
14	64.1350	0.3250	2673.4950	357.6475	0.0614	0.0082
15	64.1600	0.3500	2972.9700	428.1952	0.0683	0.0098
16	64.1850	0.3750	3272.4450	506.2330	0.0751	0.0116
17	64.2100	0.4000	3571.9200	591.7602	0.0820	0.0136
18	64.2225	0.4125	3773.3850	637.6626	0.0866	0.0146
19	64.2350	0.4250	3974.8500	686.0836	0.0912	0.0158
20	64.2475	0.4375	4176.3150	737.0232	0.0959	0.0169
21	64.2600	0.4500	4377.7800	790.4814	0.1005	0.0181
22	64.2725	0.4625	4579.2450	846.4581	0.1051	0.0194
23	64.2850	0.4750	4780.7100	904.9533	0.1098	0.0208
24	64.2975	0.4875	4982.1750	965.9670	0.1144	0.0222
25	64.3100	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	64.3225	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	64.3350	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	64.3475	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	64.3600	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	64.3725	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	64.3850	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	64.3975	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	64.4100	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	64.4350	0.6250	8183.8350	1861.8586	0.1879	0.0427
35	64.4600	0.6500	8831.7900	2074.5025	0.2027	0.0476
36	64.4850	0.6750	9479.7450	2303.3489	0.2176	0.0529
37	64.5100	0.7000	10127.7000	2548.3974	0.2325	0.0585
38	64.5350	0.7250	10775.6550	2809.6474	0.2474	0.0645
39	64.5600	0.7500	11423.6100	3087.0988	0.2622	0.0709
40	64.5850	0.7750	12071.5650	3380.7513	0.2771	0.0776
41	64.6100	0.8000	12719.5200	3690.6046	0.2920	0.0847
42	67.9200	4.1100	12719.5200	45792.2158	0.2920	1.0512

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| Variable storage data for node | CI-1
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	65.0200	0.0000	4.3560	0.0000	0.0001	0.0000
2	65.0450	0.0250	150.8265	1.5068	0.0035	0.0000
3	65.0700	0.0500	297.2970	7.0058	0.0068	0.0002
4	65.0950	0.0750	443.7675	16.2082	0.0102	0.0004
5	65.1200	0.1000	590.2380	29.0898	0.0135	0.0007
6	65.1450	0.1250	736.7085	45.6428	0.0169	0.0010
7	65.1700	0.1500	883.1790	65.8638	0.0203	0.0015
8	65.1950	0.1750	1029.6495	89.7507	0.0236	0.0021
9	65.2200	0.2000	1176.1200	117.3026	0.0270	0.0027
10	65.2450	0.2250	1475.5950	150.3783	0.0339	0.0035
11	65.2700	0.2500	1775.0700	190.9540	0.0408	0.0044
12	65.2950	0.2750	2074.5450	239.0256	0.0476	0.0055
13	65.3200	0.3000	2374.0200	294.5906	0.0545	0.0068
14	65.3450	0.3250	2673.4950	357.6475	0.0614	0.0082
15	65.3700	0.3500	2972.9700	428.1952	0.0683	0.0098
16	65.3950	0.3750	3272.4450	506.2330	0.0751	0.0116
17	65.4200	0.4000	3571.9200	591.7602	0.0820	0.0136
18	65.4325	0.4125	3773.3850	637.6626	0.0866	0.0146
19	65.4450	0.4250	3974.8500	686.0836	0.0912	0.0158
20	65.4575	0.4375	4176.3150	737.0232	0.0959	0.0169
21	65.4700	0.4500	4377.7800	790.4814	0.1005	0.0181
22	65.4825	0.4625	4579.2450	846.4581	0.1051	0.0194
23	65.4950	0.4750	4780.7100	904.9533	0.1098	0.0208
24	65.5075	0.4875	4982.1750	965.9670	0.1144	0.0222
25	65.5200	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	65.5325	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	65.5450	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	65.5575	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	65.5700	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	65.5825	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	65.5950	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	65.6075	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	65.6200	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	65.6450	0.6250	8183.8350	1861.8586	0.1879	0.0427
35	65.6700	0.6500	8831.7900	2074.5025	0.2027	0.0476
36	65.6950	0.6750	9479.7450	2303.3489	0.2176	0.0529
37	65.7200	0.7000	10127.7000	2548.3974	0.2325	0.0585
38	65.7450	0.7250	10775.6550	2809.6474	0.2474	0.0645
39	65.7700	0.7500	11423.6100	3087.0988	0.2622	0.0709
40	65.7950	0.7750	12071.5650	3380.7513	0.2771	0.0776
41	65.8200	0.8000	12719.5200	3690.6046	0.2920	0.0847
42	68.4600	3.4400	12719.5200	37270.1374	0.2920	0.8556

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| Variable storage data for node | CI-2
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	63.1800	0.0000	4.3560	0.0000	0.0001	0.0000
2	63.2050	0.0250	150.8265	1.5068	0.0035	0.0000
3	63.2300	0.0500	297.2970	7.0058	0.0068	0.0002
4	63.2550	0.0750	443.7675	16.2082	0.0102	0.0004
5	63.2800	0.1000	590.2380	29.0898	0.0135	0.0007
6	63.3050	0.1250	736.7085	45.6428	0.0169	0.0010
7	63.3300	0.1500	883.1790	65.8638	0.0203	0.0015
8	63.3550	0.1750	1029.6495	89.7507	0.0236	0.0021
9	63.3800	0.2000	1176.1200	117.3026	0.0270	0.0027
10	63.4050	0.2250	1475.5950	150.3783	0.0339	0.0035
11	63.4300	0.2500	1775.0700	190.9540	0.0408	0.0044
12	63.4550	0.2750	2074.5450	239.0256	0.0476	0.0055
13	63.4800	0.3000	2374.0200	294.5906	0.0545	0.0068
14	63.5050	0.3250	2673.4950	357.6475	0.0614	0.0082
15	63.5300	0.3500	2972.9700	428.1952	0.0683	0.0098
16	63.5550	0.3750	3272.4450	506.2330	0.0751	0.0116
17	63.5800	0.4000	3571.9200	591.7602	0.0820	0.0136
18	63.5925	0.4125	3773.3850	637.6626	0.0866	0.0146
19	63.6050	0.4250	3974.8500	686.0836	0.0912	0.0158
20	63.6175	0.4375	4176.3150	737.0232	0.0959	0.0169
21	63.6300	0.4500	4377.7800	790.4814	0.1005	0.0181

22	63.6425	0.4625	4579.2450	846.4581	0.1051	0.0194
23	63.6550	0.4750	4780.7100	904.9533	0.1098	0.0208
24	63.6675	0.4875	4982.1750	965.9670	0.1144	0.0222
25	63.6800	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	63.6925	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	63.7050	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	63.7175	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	63.7300	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	63.7425	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	63.7550	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	63.7675	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	63.7800	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	63.8050	0.6250	8183.8350	1861.8586	0.1879	0.0427
35	63.8300	0.6500	8831.7900	2074.5025	0.2027	0.0476
36	63.8550	0.6750	9479.7450	2303.3489	0.2176	0.0529
37	63.8800	0.7000	10127.7000	2548.3974	0.2325	0.0585
38	63.9050	0.7250	10775.6550	2809.6474	0.2474	0.0645
39	63.9300	0.7500	11423.6100	3087.0988	0.2622	0.0709
40	63.9550	0.7750	12071.5650	3380.7513	0.2771	0.0776
41	63.9800	0.8000	12719.5200	3690.6046	0.2920	0.0847
42	67.6100	4.4300	12719.5200	49862.4622	0.2920	1.1447

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| Variable storage data for node | CI-4
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	63.5200	0.0000	4.3560	0.0000	0.0001	0.0000
2	63.5450	0.0250	150.8265	1.5068	0.0035	0.0000
3	63.5700	0.0500	297.2970	7.0058	0.0068	0.0002
4	63.5950	0.0750	443.7675	16.2082	0.0102	0.0004
5	63.6200	0.1000	590.2380	29.0898	0.0135	0.0007
6	63.6450	0.1250	736.7085	45.6428	0.0169	0.0010
7	63.6700	0.1500	883.1790	65.8638	0.0203	0.0015
8	63.6950	0.1750	1029.6495	89.7507	0.0236	0.0021
9	63.7200	0.2000	1176.1200	117.3026	0.0270	0.0027
10	63.7450	0.2250	1475.5950	150.3783	0.0339	0.0035
11	63.7700	0.2500	1775.0700	190.9540	0.0408	0.0044
12	63.7950	0.2750	2074.5450	239.0256	0.0476	0.0055
13	63.8200	0.3000	2374.0200	294.5906	0.0545	0.0068
14	63.8450	0.3250	2673.4950	357.6475	0.0614	0.0082
15	63.8700	0.3500	2972.9700	428.1952	0.0683	0.0098
16	63.8950	0.3750	3272.4450	506.2330	0.0751	0.0116
17	63.9200	0.4000	3571.9200	591.7602	0.0820	0.0136
18	63.9325	0.4125	3773.3850	637.6626	0.0866	0.0146
19	63.9450	0.4250	3974.8500	686.0836	0.0912	0.0158
20	63.9575	0.4375	4176.3150	737.0232	0.0959	0.0169
21	63.9700	0.4500	4377.7800	790.4814	0.1005	0.0181
22	63.9825	0.4625	4579.2450	846.4581	0.1051	0.0194
23	63.9950	0.4750	4780.7100	904.9533	0.1098	0.0208
24	64.0075	0.4875	4982.1750	965.9670	0.1144	0.0222
25	64.0200	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	64.0325	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	64.0450	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	64.0575	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	64.0700	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	64.0825	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	64.0950	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	64.1075	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	64.1200	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	64.1450	0.6250	8183.8350	1861.8586	0.1879	0.0427
35	64.1700	0.6500	8831.7900	2074.5025	0.2027	0.0476
36	64.1950	0.6750	9479.7450	2303.3489	0.2176	0.0529
37	64.2200	0.7000	10127.7000	2548.3974	0.2325	0.0585
38	64.2450	0.7250	10775.6550	2809.6474	0.2474	0.0645
39	64.2700	0.7500	11423.6100	3087.0988	0.2622	0.0709
40	64.2950	0.7750	12071.5650	3380.7513	0.2771	0.0776
41	64.3200	0.8000	12719.5200	3690.6046	0.2920	0.0847
42	69.5800	6.0600	12719.5200	70595.2798	0.2920	1.6206

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| Variable storage data for node | CI-1.1
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	58.7600	0.0000	4.3560	0.0000	0.0001	0.0000
2	60.0975	1.3375	4.3560	5.8261	0.0001	0.0001
3	61.4350	2.6750	4.3560	11.6523	0.0001	0.0003
4	62.7725	4.0125	4.3560	17.4784	0.0001	0.0004
5	64.1100	5.3500	4.3560	23.3046	0.0001	0.0005
6	65.4475	6.6875	4.3560	29.1307	0.0001	0.0007
7	66.7850	8.0250	4.3560	34.9569	0.0001	0.0008
8	68.1225	9.3625	4.3560	40.7830	0.0001	0.0009
9	69.4600	10.7000	4.3560	46.6092	0.0001	0.0011
10	69.4650	10.7050	3161.9115	52.0819	0.0726	0.0012
11	69.4700	10.7100	6319.4670	75.3343	0.1451	0.0017
12	69.4750	10.7150	9477.0225	114.5599	0.2176	0.0026
13	69.4800	10.7200	12634.5780	169.6501	0.2900	0.0039
14	69.4850	10.7250	15792.1335	240.5702	0.3625	0.0055
15	69.4900	10.7300	18949.6890	327.3050	0.4350	0.0075
16	69.4950	10.7350	22107.2445	429.8460	0.5075	0.0099
17	69.5000	10.7400	25264.8000	548.1883	0.5800	0.0126
18	69.5625	10.8025	25972.6500	2149.3077	0.5962	0.0493
19	69.6250	10.8650	26680.5000	3794.6690	0.6125	0.0871
20	69.6875	10.9275	27388.3500	5484.2723	0.6287	0.1259
21	69.7500	10.9900	28096.2000	7218.1175	0.6450	0.1657
22	69.8125	11.0525	28804.0500	8996.2044	0.6613	0.2065
23	69.8750	11.1150	29511.9000	10818.5331	0.6775	0.2484
24	69.9375	11.1775	30219.7500	12685.1035	0.6937	0.2912
25	70.0000	11.2400	30927.6000	14596.9155	0.7100	0.3351
26	70.0625	11.3025	31363.2000	16542.4871	0.7200	0.3798
27	70.1250	11.3650	31798.8000	18516.2840	0.7300	0.4251
28	70.1875	11.4275	32234.4000	20517.3061	0.7400	0.4710
29	70.2500	11.4900	32670.0000	22545.5533	0.7500	0.5176
30	70.3125	11.5525	33105.6000	24601.0258	0.7600	0.5648
31	70.3750	11.6150	33541.2000	26683.7235	0.7700	0.6126
32	70.4375	11.6775	33976.8000	28793.6463	0.7800	0.6610
33	70.5000	11.7400	34412.4000	30930.7944	0.7900	0.7101
34	70.5625	11.8025	34249.0500	33076.4627	0.7863	0.7593
35	70.6250	11.8650	34085.7000	35211.9216	0.7825	0.8084
36	70.6875	11.9275	33922.3500	37337.1711	0.7788	0.8571
37	70.7500	11.9900	33759.0000	39452.2112	0.7750	0.9057
38	70.8125	12.0525	33595.6500	41557.0420	0.7712	0.9540
39	70.8750	12.1150	33432.3000	43651.6634	0.7675	1.0021
40	70.9375	12.1775	33268.9500	45736.0753	0.7638	1.0500
41	71.0000	12.2400	33105.6000	47810.2779	0.7600	1.0976
42	71.0625	12.3025	33160.0500	49881.0793	0.7612	1.1451
43	71.1250	12.3650	33214.5000	51955.2837	0.7625	1.1927
44	71.1875	12.4275	33268.9500	54032.8913	0.7638	1.2404
45	71.2500	12.4900	33323.4000	56113.9020	0.7650	1.2882
46	71.3125	12.5525	33377.8500	58198.3158	0.7662	1.3360
47	71.3750	12.6150	33432.3000	60286.1328	0.7675	1.3840
48	71.4375	12.6775	33486.7500	62377.3529	0.7687	1.4320
49	71.5000	12.7400	33541.2000	64471.9761	0.7700	1.4801
50	71.5625	12.8025	33541.2000	66568.3011	0.7700	1.5282
51	71.6250	12.8650	33541.2000	68664.6261	0.7700	1.5763

52	71.6875	12.9275	33541.2000	70760.9511	0.7700	1.6244
53	71.7500	12.9900	33541.2000	72857.2761	0.7700	1.6726
54	71.8125	13.0525	33541.2000	74953.6011	0.7700	1.7207
55	71.8750	13.1150	33541.2000	77049.9261	0.7700	1.7688
56	71.9375	13.1775	33541.2000	79146.2511	0.7700	1.8169
57	72.0000	13.2400	33541.2000	81242.5761	0.7700	1.8651
58	72.0625	13.3025	33541.2000	83338.9011	0.7700	1.9132
59	72.1250	13.3650	33541.2000	85435.2261	0.7700	1.9613
60	72.1875	13.4275	33541.2000	87531.5511	0.7700	2.0094
61	72.2500	13.4900	33541.2000	89627.8761	0.7700	2.0576
62	72.3125	13.5525	33541.2000	91724.2011	0.7700	2.1057
63	72.3750	13.6150	33541.2000	93820.5261	0.7700	2.1538
64	72.4375	13.6775	33541.2000	95916.8511	0.7700	2.2019
65	72.5000	13.7400	33541.2000	98013.1761	0.7700	2.2501

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| Variable storage data for node | CI-3.1
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	60.8900	0.0000	4.3560	0.0000	0.0001	0.0000
2	62.2375	1.3475	4.3560	5.8697	0.0001	0.0001
3	63.5850	2.6950	4.3560	11.7394	0.0001	0.0003
4	64.9325	4.0425	4.3560	17.6091	0.0001	0.0004
5	66.2800	5.3900	4.3560	23.4788	0.0001	0.0005
6	67.6275	6.7375	4.3560	29.3485	0.0001	0.0007
7	68.9750	8.0850	4.3560	35.2183	0.0001	0.0008
8	70.3225	9.4325	4.3560	41.0880	0.0001	0.0009
9	71.6700	10.7800	4.3560	46.9577	0.0001	0.0011
10	71.7237	10.8338	8606.9115	204.7121	0.1976	0.0047
11	71.7775	10.8875	17209.4670	885.3098	0.3951	0.0203
12	71.8312	10.9413	25812.0225	2033.7288	0.5926	0.0467
13	71.8850	10.9950	34414.5780	3646.7865	0.7901	0.0837
14	71.9387	11.0488	43017.1335	5723.4696	0.9875	0.1314
15	71.9925	11.1025	51619.6890	8263.3243	1.1850	0.1897
16	72.0463	11.1562	60222.2445	11266.1081	1.3825	0.2586
17	72.1000	11.2100	68824.8000	14731.6759	1.5800	0.3382
18	72.1625	11.2725	66701.2500	18966.6917	1.5312	0.4354
19	72.2250	11.3350	64577.7000	23068.9799	1.4825	0.5296
20	72.2875	11.3975	62454.1500	27038.5403	1.4338	0.6207
21	72.3500	11.4600	60330.6000	30875.3725	1.3850	0.7088
22	72.4125	11.5225	58207.0500	34579.4759	1.3362	0.7938
23	72.4750	11.5850	56083.5000	38150.8501	1.2875	0.8758
24	72.5375	11.6475	53959.9500	41589.4944	1.2388	0.9548
25	72.6000	11.7100	51836.4000	44895.4083	1.1900	1.0307

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| Variable storage data for node | MHI-22
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	59.0100	0.0000	4.3560	0.0000	0.0001	0.0000
2	60.4387	1.4287	4.3560	6.2236	0.0001	0.0001
3	61.8675	2.8575	4.3560	12.4473	0.0001	0.0003
4	63.2963	4.2862	4.3560	18.6709	0.0001	0.0004
5	64.7250	5.7150	4.3560	24.8945	0.0001	0.0006
6	66.1538	7.1437	4.3560	31.1182	0.0001	0.0007
7	67.5825	8.5725	4.3560	37.3418	0.0001	0.0009
8	69.0112	10.0012	4.3560	43.5654	0.0001	0.0010
9	70.4400	11.4300	4.3560	49.7891	0.0001	0.0011
10	70.4750	11.4650	276.0615	53.4652	0.0063	0.0012
11	70.5100	11.5000	547.7670	67.6133	0.0126	0.0016
12	70.5450	11.5350	819.4725	91.3809	0.0188	0.0021
13	70.5800	11.5700	1091.1780	124.7040	0.0251	0.0029
14	70.6150	11.6050	1362.8835	167.5621	0.0313	0.0038
15	70.6500	11.6400	1634.5890	219.9459	0.0375	0.0050
16	70.6850	11.6750	1906.2945	281.8504	0.0438	0.0065
17	70.7200	11.7100	2178.0000	353.2728	0.0500	0.0081
18	70.7825	11.7725	2123.5500	487.6927	0.0488	0.0112
19	70.8450	11.8350	2069.1000	618.7093	0.0475	0.0142
20	70.9075	11.8975	2014.6500	746.3227	0.0462	0.0171
21	70.9700	11.9600	1960.2000	870.5329	0.0450	0.0200
22	71.0325	12.0225	1905.7500	991.3398	0.0438	0.0228
23	71.0950	12.0850	1851.3000	1108.7435	0.0425	0.0255
24	71.1575	12.1475	1796.8500	1222.7440	0.0413	0.0281
25	71.2200	12.2100	1742.4000	1333.3412	0.0400	0.0306
26	71.2825	12.2725	1905.7500	1447.3078	0.0438	0.0332
27	71.3450	12.3350	2069.1000	1571.4868	0.0475	0.0361
28	71.4075	12.3975	2232.4500	1705.8780	0.0513	0.0392
29	71.4700	12.4600	2395.8000	1850.4807	0.0550	0.0425
30	71.5325	12.5225	2559.1500	2005.2949	0.0587	0.0460
31	71.5950	12.5850	2722.5000	2170.3201	0.0625	0.0498
32	71.6575	12.6475	2885.8500	2345.5563	0.0663	0.0538
33	71.7200	12.7100	3049.2000	2531.0032	0.0700	0.0581
34	71.7825	12.7725	3158.1000	2724.9713	0.0725	0.0626
35	71.8450	12.8350	3267.0000	2925.7461	0.0750	0.0672
36	71.9075	12.8975	3375.9000	3133.3274	0.0775	0.0719
37	71.9700	12.9600	3484.8000	3347.7153	0.0800	0.0769
38	72.0325	13.0225	3593.7000	3568.9097	0.0825	0.0819
39	72.0950	13.0850	3702.6000	3796.9106	0.0850	0.0872
40	72.1575	13.1475	3811.5000	4031.7180	0.0875	0.0926
41	72.2200	13.2100	3920.4000	4273.3319	0.0900	0.0981
42	72.2825	13.2725	4029.3000	4521.7522	0.0925	0.1038
43	72.3450	13.3350	4138.2000	4776.9791	0.0950	0.1097
44	72.4075	13.3975	4247.1000	5039.0123	0.0975	0.1157
45	72.4700	13.4600	4356.0000	5307.8520	0.1000	0.1219
46	72.5325	13.5225	4464.9000	5583.4981	0.1025	0.1282
47	72.5950	13.5850	4573.8000	5865.9507	0.1050	0.1347
48	72.6575	13.6475	4682.7000	6155.2096	0.1075	0.1413
49	72.7200	13.7100	4791.6000	6451.2750	0.1100	0.1481

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| Variable storage data for node | CI-9
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	59.5700	0.0000	4.3560	0.0000	0.0001	0.0000
2	59.5950	0.0250	150.8265	1.5068	0.0035	0.0000
3	59.6200	0.0500	297.2970	7.0058	0.0068	0.0002
4	59.6450	0.0750	443.7675	16.2082	0.0102	0.0004
5	59.6700	0.1000	590.2380	29.0898	0.0135	0.0007
6	59.6950	0.1250	736.7085	45.6428	0.0169	0.0010
7	59.7200	0.1500	883.1790	65.8638	0.0203	0.0015
8	59.7450	0.1750	1029.6495	89.7507	0.0236	0.0021
9	59.7700	0.2000	1176.1200	117.3026	0.0270	0.0027
10	59.7950	0.2250	1475.5950	150.3783	0.0339	0.0035
11	59.8200	0.2500	1775.0700	190.9540	0.0408	0.0044
12	59.8450	0.2750	2074.5450	239.9256	0.0476	0.0055
13	59.8700	0.3000	2374.0200	294.5906	0.0545	0.0068
14	59.8950	0.3250	2673.4950	357.6475	0.0614	0.0082
15	59.9200	0.3500	2972.9700	428.1952	0.0683	0.0098
16	59.9450	0.3750	3272.4450	506.2330	0.0751	0.0116
17	59.9700	0.4000	3571.9200	591.7602	0.0820	0.0136
18	59.9825	0.4125	3773.3850	637.6626	0.0866	0.0146
19	59.9950	0.4250	3974.8500	686.0836	0.0912	0.0158

20	60.0075	0.4375	4176.3150	737.0232	0.0959	0.0169
21	60.0200	0.4500	4377.7800	790.4814	0.1005	0.0181
22	60.0325	0.4625	4579.2450	846.4581	0.1051	0.0194
23	60.0450	0.4750	4780.7100	904.9533	0.1098	0.0208
24	60.0575	0.4875	4982.1750	965.9670	0.1144	0.0222
25	60.0700	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	60.0825	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	60.0950	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	60.1075	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	60.1200	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	60.1325	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	60.1450	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	60.1575	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	60.1700	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	60.1950	0.6250	8183.8350	1861.8586	0.1879	0.0427
35	60.2200	0.6500	8831.7900	2074.5025	0.2027	0.0476
36	60.2450	0.6750	9479.7450	2303.3489	0.2176	0.0529
37	60.2700	0.7000	10127.7000	2548.3974	0.2325	0.0585
38	60.2950	0.7250	10775.6550	2809.6474	0.2474	0.0645
39	60.3200	0.7500	11423.6100	3087.0988	0.2622	0.0709
40	60.3450	0.7750	12071.5650	3380.7513	0.2771	0.0776
41	60.3700	0.8000	12719.5200	3690.6046	0.2920	0.0847
42	69.0700	9.5000	12719.5200	114350.4286	0.2920	2.6251

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| Variable storage data for node | MHI-13
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	58.1500	0.0000	4.3560	0.0000	0.0001	0.0000
2	59.8412	1.6912	4.3560	7.3671	0.0001	0.0002
3	61.5325	3.3825	4.3560	14.7342	0.0001	0.0003
4	63.2237	5.0737	4.3560	22.1013	0.0001	0.0005
5	64.9150	6.7650	4.3560	29.4683	0.0001	0.0007
6	66.6063	8.4562	4.3560	36.8354	0.0001	0.0008
7	68.2975	10.1475	4.3560	44.2025	0.0001	0.0010
8	69.9887	11.8387	4.3560	51.5696	0.0001	0.0012
9	71.6800	13.5300	4.3560	58.9367	0.0001	0.0014
10	71.7025	13.5525	330.5115	61.7328	0.0076	0.0014
11	71.7250	13.5750	656.6670	72.6306	0.0151	0.0017
12	71.7475	13.5975	982.8225	90.9520	0.0226	0.0021
13	71.7700	13.6200	1308.9780	116.6473	0.0301	0.0027
14	71.7925	13.6425	1635.1335	149.7006	0.0375	0.0034
15	71.8150	13.6650	1961.2890	190.1048	0.0450	0.0044
16	71.8375	13.6875	2287.4445	237.8560	0.0525	0.0055
17	71.8600	13.7100	2613.6000	292.9520	0.0600	0.0067
18	71.9225	13.7725	2831.4000	463.0629	0.0650	0.0106
19	71.9850	13.8350	3049.2000	646.7896	0.0700	0.0148
20	72.0475	13.8975	3267.0000	844.1317	0.0750	0.0194
21	72.1100	13.9600	3484.8000	1055.0889	0.0800	0.0242
22	72.1725	14.0225	3702.6000	1279.6607	0.0850	0.0294
23	72.2350	14.0850	3920.4000	1517.8471	0.0900	0.0348
24	72.2975	14.1475	4138.2000	1769.6476	0.0950	0.0406
25	72.3600	14.2100	4356.0000	2035.0623	0.1000	0.0467
26	72.4225	14.2725	4356.0000	2307.3123	0.1000	0.0530
27	72.4850	14.3350	4356.0000	2579.5623	0.1000	0.0592
28	72.5475	14.3975	4356.0000	2851.8123	0.1000	0.0655
29	72.6100	14.4600	4356.0000	3124.0623	0.1000	0.0717
30	72.6725	14.5225	4356.0000	3396.3123	0.1000	0.0780
31	72.7350	14.5850	4356.0000	3668.5623	0.1000	0.0842
32	72.7975	14.6475	4356.0000	3940.8123	0.1000	0.0905
33	72.8600	14.7100	4356.0000	4213.0623	0.1000	0.0967

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| Variable storage data for node | CI-12
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	62.4900	0.0000	4.3560	0.0000	0.0001	0.0000
2	62.5150	0.0250	150.8265	1.5068	0.0035	0.0000
3	62.5400	0.0500	297.2970	7.0058	0.0068	0.0002
4	62.5650	0.0750	443.7675	16.2082	0.0102	0.0004
5	62.5900	0.1000	590.2380	29.0898	0.0135	0.0007
6	62.6150	0.1250	736.7085	45.6428	0.0169	0.0010
7	62.6400	0.1500	883.1790	65.8638	0.0203	0.0015
8	62.6650	0.1750	1029.6495	89.7507	0.0236	0.0021
9	62.6900	0.2000	1176.1200	117.3026	0.0270	0.0027
10	62.7150	0.2250	1475.5950	150.3783	0.0339	0.0035
11	62.7400	0.2500	1775.0700	190.9540	0.0408	0.0044
12	62.7650	0.2750	2074.5450	239.0256	0.0476	0.0055
13	62.7900	0.3000	2374.0200	294.5906	0.0545	0.0068
14	62.8150	0.3250	2673.4950	357.6475	0.0614	0.0082
15	62.8400	0.3500	2972.9700	428.1952	0.0683	0.0098
16	62.8650	0.3750	3272.4450	506.2330	0.0751	0.0116
17	62.8900	0.4000	3571.9200	591.7602	0.0820	0.0136
18	62.9025	0.4125	3773.3850	637.6626	0.0866	0.0146
19	62.9150	0.4250	3974.8500	686.0836	0.0912	0.0158
20	62.9275	0.4375	4176.3150	737.0232	0.0959	0.0169
21	62.9400	0.4500	4377.7800	790.4814	0.1005	0.0181
22	62.9525	0.4625	4579.2450	846.4581	0.1051	0.0194
23	62.9650	0.4750	4780.7100	904.9533	0.1098	0.0208
24	62.9775	0.4875	4982.1750	965.9670	0.1144	0.0222
25	62.9900	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	63.0025	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	63.0150	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	63.0275	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	63.0400	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	63.0525	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	63.0650	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	63.0775	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	63.0900	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	63.1150	0.6250	8183.8350	1861.8586	0.1879	0.0427
35	63.1400	0.6500	8831.7900	2074.5025	0.2027	0.0476
36	63.1650	0.6750	9479.7450	2303.3489	0.2176	0.0529
37	63.1900	0.7000	10127.7000	2548.3974	0.2325	0.0585
38	63.2150	0.7250	10775.6550	2809.6474	0.2474	0.0645
39	63.2400	0.7500	11423.6100	3087.0988	0.2622	0.0709
40	63.2650	0.7750	12071.5650	3380.7513	0.2771	0.0776
41	63.2900	0.8000	12719.5200	3690.6046	0.2920	0.0847
42	67.6000	5.1100	12719.5200	58511.7358	0.2920	1.3432

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| Variable storage data for node | CI-8
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	62.9800	0.0000	4.3560	0.0000	0.0001	0.0000
2	63.0050	0.0250	150.8265	1.5068	0.0035	0.0000
3	63.0300	0.0500	297.2970	7.0058	0.0068	0.0002
4	63.0550	0.0750	443.7675	16.2082	0.0102	0.0004
5	63.0800	0.1000	590.2380	29.0898	0.0135	0.0007
6	63.1050	0.1250	736.7085	45.6428	0.0169	0.0010
7	63.1300	0.1500	883.1790	65.8638	0.0203	0.0015
8	63.1550	0.1750	1029.6495	89.7507	0.0236	0.0021
9	63.1800	0.2000	1176.1200	117.3026	0.0270	0.0027

10	63.2050	0.2250	1475.5950	150.3783	0.0339	0.0035
11	63.2300	0.2500	1775.0700	190.9540	0.0408	0.0044
12	63.2550	0.2750	2074.5450	239.0256	0.0476	0.0055
13	63.2800	0.3000	2374.0200	294.5906	0.0545	0.0068
14	63.3050	0.3250	2673.4950	357.6475	0.0614	0.0082
15	63.3300	0.3500	2972.9700	428.1952	0.0683	0.0098
16	63.3550	0.3750	3272.4450	506.2330	0.0751	0.0116
17	63.3800	0.4000	3571.9200	591.7602	0.0820	0.0136
18	63.3925	0.4125	3773.3850	637.6626	0.0866	0.0146
19	63.4050	0.4250	3974.8500	686.0836	0.0912	0.0158
20	63.4175	0.4375	4176.3150	737.0232	0.0959	0.0169
21	63.4300	0.4500	4377.7800	790.4814	0.1005	0.0181
22	63.4425	0.4625	4579.2450	846.4581	0.1051	0.0194
23	63.4550	0.4750	4780.7100	904.9533	0.1098	0.0208
24	63.4675	0.4875	4982.1750	965.9670	0.1144	0.0222
25	63.4800	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	63.4925	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	63.5050	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	63.5175	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	63.5300	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	63.5425	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	63.5550	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	63.5675	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	63.5800	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	63.6050	0.6250	8183.8350	1861.8586	0.1879	0.0427
35	63.6300	0.6500	8831.7900	2074.5025	0.2027	0.0476
36	63.6550	0.6750	9479.7450	2303.3489	0.2176	0.0529
37	63.6800	0.7000	10127.7000	2548.3974	0.2325	0.0585
38	63.7050	0.7250	10775.6550	2809.6474	0.2474	0.0645
39	63.7300	0.7500	11423.6100	3087.0988	0.2622	0.0709
40	63.7550	0.7750	12071.5650	3380.7513	0.2771	0.0776
41	63.7800	0.8000	12719.5200	3690.6046	0.2920	0.0847
42	67.3100	4.3300	12719.5200	48590.5102	0.2920	1.1155

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| Variable storage data for node | CI-11
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	61.0500	0.0000	4.3560	0.0000	0.0001	0.0000
2	61.0750	0.0250	150.8265	1.5068	0.0035	0.0000
3	61.1000	0.0500	297.2970	7.0058	0.0068	0.0002
4	61.1250	0.0750	443.7675	16.2082	0.0102	0.0004
5	61.1500	0.1000	590.2380	29.0898	0.0135	0.0007
6	61.1750	0.1250	736.7085	45.6428	0.0169	0.0010
7	61.2000	0.1500	883.1790	65.8638	0.0203	0.0015
8	61.2250	0.1750	1029.6495	89.7507	0.0236	0.0021
9	61.2500	0.2000	1176.1200	117.3026	0.0270	0.0027
10	61.2750	0.2250	1475.5950	150.3783	0.0339	0.0035
11	61.3000	0.2500	1775.0700	190.9540	0.0408	0.0044
12	61.3250	0.2750	2074.5450	239.0256	0.0476	0.0055
13	61.3500	0.3000	2374.0200	294.5906	0.0545	0.0068
14	61.3750	0.3250	2673.4950	357.6475	0.0614	0.0082
15	61.4000	0.3500	2972.9700	428.1952	0.0683	0.0098
16	61.4250	0.3750	3272.4450	506.2330	0.0751	0.0116
17	61.4500	0.4000	3571.9200	591.7602	0.0820	0.0136
18	61.4625	0.4125	3773.3850	637.6626	0.0866	0.0146
19	61.4750	0.4250	3974.8500	686.0836	0.0912	0.0158
20	61.4875	0.4375	4176.3150	737.0232	0.0959	0.0169
21	61.5000	0.4500	4377.7800	790.4814	0.1005	0.0181
22	61.5125	0.4625	4579.2450	846.4581	0.1051	0.0194
23	61.5250	0.4750	4780.7100	904.9533	0.1098	0.0208
24	61.5375	0.4875	4982.1750	965.9670	0.1144	0.0222
25	61.5500	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	61.5625	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	61.5750	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	61.5875	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	61.6000	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	61.6125	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	61.6250	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	61.6375	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	61.6500	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	61.6750	0.6250	8183.8350	1861.8586	0.1879	0.0427
35	61.7000	0.6500	8831.7900	2074.5025	0.2027	0.0476
36	61.7250	0.6750	9479.7450	2303.3489	0.2176	0.0529
37	61.7500	0.7000	10127.7000	2548.3974	0.2325	0.0585
38	61.7750	0.7250	10775.6550	2809.6474	0.2474	0.0645
39	61.8000	0.7500	11423.6100	3087.0988	0.2622	0.0709
40	61.8250	0.7750	12071.5650	3380.7513	0.2771	0.0776
41	61.8500	0.8000	12719.5200	3690.6046	0.2920	0.0847
42	67.1300	6.0800	12719.5200	70849.6702	0.2920	1.6265

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| Variable storage data for node | CI-2B
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	64.9600	0.0000	4.3560	0.0000	0.0001	0.0000
2	65.5537	0.5938	4.3560	2.5864	0.0001	0.0001
3	66.1475	1.1875	4.3560	5.1727	0.0001	0.0001
4	66.7412	1.7812	4.3560	7.7591	0.0001	0.0002
5	67.3350	2.3750	4.3560	10.3455	0.0001	0.0002
6	67.9287	2.9688	4.3560	12.9319	0.0001	0.0003
7	68.5225	3.5625	4.3560	15.5182	0.0001	0.0004
8	69.1162	4.1562	4.3560	18.1046	0.0001	0.0004
9	69.7100	4.7500	4.3560	20.6910	0.0001	0.0005
10	69.7338	4.7738	1637.3115	34.3563	0.0376	0.0008
11	69.7575	4.7975	3270.2670	91.5274	0.0751	0.0021
12	69.7813	4.8213	4903.2225	187.9364	0.1126	0.0043
13	69.8050	4.8450	6536.1780	323.3170	0.1500	0.0074
14	69.8288	4.8688	8169.1335	497.5844	0.1875	0.0114
15	69.8525	4.8925	9802.0890	710.7006	0.2250	0.0163
16	69.8763	4.9163	11435.0445	962.6453	0.2625	0.0221
17	69.9000	4.9400	13068.0000	1253.4064	0.3000	0.0288
18	69.9625	5.0025	13068.0000	2070.1564	0.3000	0.0475
19	70.0250	5.0650	13068.0000	2886.9064	0.3000	0.0663
20	70.0875	5.1275	13068.0000	3703.6564	0.3000	0.0850
21	70.1500	5.1900	13068.0000	4520.4064	0.3000	0.1038
22	70.2125	5.2525	13068.0000	5337.1564	0.3000	0.1225
23	70.2750	5.3150	13068.0000	6153.9064	0.3000	0.1413
24	70.3375	5.3775	13068.0000	6970.6564	0.3000	0.1600
25	70.4000	5.4400	13068.0000	7787.4064	0.3000	0.1788
26	70.4625	5.5025	13122.4500	8605.8574	0.3013	0.1976
27	70.5250	5.5650	13176.9000	9427.7115	0.3025	0.2164
28	70.5875	5.6275	13231.3500	10252.9687	0.3037	0.2354
29	70.6500	5.6900	13285.8000	11081.6291	0.3050	0.2544
30	70.7125	5.7525	13340.2500	11913.6926	0.3063	0.2735
31	70.7750	5.8150	13394.7000	12749.1592	0.3075	0.2927
32	70.8375	5.8775	13449.1500	13588.0289	0.3087	0.3119
33	70.9000	5.9400	13503.6000	14430.3018	0.3100	0.3313
34	70.9625	6.0025	13558.0500	15275.9778	0.3113	0.3507
35	71.0250	6.0650	13612.5000	16125.0569	0.3125	0.3702
36	71.0875	6.1275	13666.9500	16977.5391	0.3137	0.3898
37	71.1500	6.1900	13721.4000	17833.4245	0.3150	0.4094
38	71.2125	6.2525	13775.8500	18692.7130	0.3163	0.4291
39	71.2750	6.3150	13830.3000	19555.4046	0.3175	0.4489

40	71.3375	6.3775	13884.7500	20421.4994	0.3187	0.4688
41	71.4000	6.4400	13939.2000	21290.9973	0.3200	0.4888
42	71.4625	6.5025	13993.6500	22163.8983	0.3213	0.5088
43	71.5250	6.5650	14048.1000	23040.2024	0.3225	0.5289
44	71.5875	6.6275	14102.5500	23919.9097	0.3237	0.5491
45	71.6500	6.6900	14157.0000	24803.0201	0.3250	0.5694
46	71.7125	6.7525	14211.4500	25689.5336	0.3263	0.5898
47	71.7750	6.8150	14265.9000	26579.4502	0.3275	0.6102
48	71.8375	6.8775	14320.3500	27472.7700	0.3287	0.6307
49	71.9000	6.9400	14374.8000	28369.4929	0.3300	0.6513

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| Variable storage data for node | CI-2C
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	65.2100	0.0000	4.3560	0.0000	0.0001	0.0000
2	65.9025	0.6925	4740.9615	1128.5500	0.1088	0.0259
3	66.5950	1.3850	9477.5670	5957.9813	0.2176	0.1368
4	67.2875	2.0775	14214.1725	14106.0421	0.3263	0.3238
5	67.9800	2.7700	18950.7780	25550.1686	0.4350	0.5866
6	68.6725	3.4625	23687.3835	40283.1753	0.5438	0.9248
7	69.3650	4.1550	28423.9890	58301.8447	0.6525	1.3384
8	70.0575	4.8475	33160.5945	79604.4561	0.7613	1.8275
9	70.7500	5.5400	37897.2000	104189.9810	0.8700	2.3919
10	70.7550	5.5450	33160.5945	104367.4982	0.7613	2.3959
11	70.7600	5.5500	28423.9890	104521.3115	0.6525	2.3995
12	70.7650	5.5550	23687.3835	104651.4134	0.5438	2.4025
13	70.7700	5.5600	18950.7780	104757.7916	0.4350	2.4049
14	70.7750	5.5650	14214.1725	104840.4227	0.3263	2.4068
15	70.7800	5.5700	9477.5670	104899.2549	0.2176	2.4082
16	70.7850	5.5750	4740.9615	104934.1253	0.1088	2.4090
17	70.7900	5.5800	4.3560	104942.2739	0.0001	2.4091
18	70.8475	5.6375	9532.5615	105128.9701	0.2188	2.4134
19	70.9050	5.6950	19060.7670	105935.3649	0.4376	2.4319
20	70.9625	5.7525	28588.9725	107296.0693	0.6563	2.4632
21	71.0200	5.8100	38117.1780	109207.3120	0.8750	2.5071
22	71.0775	5.8675	47645.3835	111667.8921	1.0938	2.5635
23	71.1350	5.9250	57173.5890	114677.2722	1.3125	2.6326
24	71.1925	5.9825	66701.7945	118235.1648	1.5313	2.7143
25	71.2500	6.0400	76230.0000	122341.3981	1.7500	2.8086
26	71.3125	6.1025	81239.4000	127261.4866	1.8650	2.9215
27	71.3750	6.1650	86248.8000	132494.7123	1.9800	3.0417
28	71.4375	6.2275	91258.2000	138041.0696	2.0950	3.1690
29	71.5000	6.2900	96267.6000	143900.5538	2.2100	3.3035
30	71.5625	6.3525	101277.0000	150073.1608	2.3250	3.4452
31	71.6250	6.4150	106286.4000	156558.8873	2.4400	3.5941
32	71.6875	6.4775	111295.8000	163357.7303	2.5550	3.7502
33	71.7500	6.5400	116305.2000	170469.6872	2.6700	3.9134
34	71.8125	6.6025	118210.9500	177798.2363	2.7138	4.0817
35	71.8750	6.6650	120116.7000	185245.8960	2.7575	4.2527
36	71.9375	6.7275	122022.4500	192812.6663	2.8013	4.4264
37	72.0000	6.7900	123928.2000	200498.5472	2.8450	4.6028
38	72.0625	6.8525	125833.9500	208303.5386	2.8887	4.7820
39	72.1250	6.9150	127739.7000	216227.6406	2.9325	4.9639
40	72.1875	6.9775	129645.4500	224270.8530	2.9762	5.1486
41	72.2500	7.0400	131551.2000	232433.1759	3.0200	5.3359
42	72.3125	7.1025	136941.7500	240823.0169	3.1437	5.5285
43	72.3750	7.1650	142332.3000	249549.7890	3.2675	5.7289
44	72.4375	7.2275	147722.8500	258613.4906	3.3912	5.9369
45	72.5000	7.2900	153113.4000	268014.1203	3.5150	6.1528
46	72.5625	7.3525	158503.9500	277751.6768	3.6387	6.3763
47	72.6250	7.4150	163894.5000	287826.1588	3.7625	6.6076
48	72.6875	7.4775	169285.0500	298237.5655	3.8862	6.8466
49	72.7500	7.5400	174675.6000	308985.8958	4.0100	7.0933

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| Variable storage data for node | CI-10
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	60.6500	0.0000	4.3560	0.0000	0.0001	0.0000
2	60.6750	0.0250	150.8265	1.5068	0.0035	0.0000
3	60.7000	0.0500	297.2970	7.0058	0.0068	0.0002
4	60.7250	0.0750	443.7675	16.2082	0.0102	0.0004
5	60.7500	0.1000	590.2380	29.0898	0.0135	0.0007
6	60.7750	0.1250	736.7085	45.6428	0.0169	0.0010
7	60.8000	0.1500	883.1790	65.8638	0.0203	0.0015
8	60.8250	0.1750	1029.6495	89.7507	0.0236	0.0021
9	60.8500	0.2000	1176.1200	117.3026	0.0270	0.0027
10	60.8750	0.2250	1475.5950	150.3783	0.0339	0.0035
11	60.9000	0.2500	1775.0700	190.9540	0.0408	0.0044
12	60.9250	0.2750	2074.5450	239.0256	0.0476	0.0055
13	60.9500	0.3000	2374.0200	294.5906	0.0545	0.0068
14	60.9750	0.3250	2673.4950	357.6475	0.0614	0.0082
15	61.0000	0.3500	2972.9700	428.1952	0.0683	0.0098
16	61.0250	0.3750	3272.4450	506.2330	0.0751	0.0116
17	61.0500	0.4000	3571.9200	591.7602	0.0820	0.0136
18	61.0625	0.4125	3773.3850	637.6626	0.0866	0.0146
19	61.0750	0.4250	3974.8500	686.0836	0.0912	0.0158
20	61.0875	0.4375	4176.3150	737.0232	0.0959	0.0169
21	61.1000	0.4500	4377.7800	790.4814	0.1005	0.0181
22	61.1125	0.4625	4579.2450	846.4581	0.1051	0.0194
23	61.1250	0.4750	4780.7100	904.9533	0.1098	0.0208
24	61.1375	0.4875	4982.1750	965.9670	0.1144	0.0222
25	61.1500	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	61.1625	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	61.1750	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	61.1875	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	61.2000	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	61.2125	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	61.2250	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	61.2375	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	61.2500	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	61.2750	0.6250	8183.8350	1861.8586	0.1879	0.0427
35	61.3000	0.6500	8831.7900	2074.5025	0.2027	0.0476
36	61.3250	0.6750	9479.7450	2303.3489	0.2176	0.0529
37	61.3500	0.7000	10127.7000	2548.3974	0.2325	0.0585
38	61.3750	0.7250	10775.6550	2809.6474	0.2474	0.0645
39	61.4000	0.7500	11423.6100	3087.0988	0.2622	0.0709
40	61.4250	0.7750	12071.5650	3380.7513	0.2771	0.0776
41	61.4500	0.8000	12719.5200	3690.6046	0.2920	0.0847
42	68.2600	7.6100	12719.5200	90310.5358	0.2920	2.0732

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| Variable storage data for node | CI-5
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	62.0700	0.0000	4.3560	0.0000	0.0001	0.0000
2	62.0950	0.0250	150.8265	1.5068	0.0035	0.0000
3	62.1200	0.0500	297.2970	7.0058	0.0068	0.0002
4	62.1450	0.0750	443.7675	16.2082	0.0102	0.0004
5	62.1700	0.1000	590.2380	29.0898	0.0135	0.0007
6	62.1950	0.1250	736.7085	45.6428	0.0169	0.0010

7	62.2200	0.1500	883.1790	65.8638	0.0203	0.0015
8	62.2450	0.1750	1029.6495	89.7507	0.0236	0.0021
9	62.2700	0.2000	1176.1200	117.3026	0.0270	0.0027
10	62.2950	0.2250	1475.5950	150.3783	0.0339	0.0035
11	62.3200	0.2500	1775.0700	190.9540	0.0408	0.0044
12	62.3450	0.2750	2074.5450	239.0256	0.0476	0.0055
13	62.3700	0.3000	2374.0200	294.5906	0.0545	0.0068
14	62.3950	0.3250	2673.4950	357.6475	0.0614	0.0082
15	62.4200	0.3500	2972.9700	428.1952	0.0683	0.0098
16	62.4450	0.3750	3272.4450	506.2330	0.0751	0.0116
17	62.4700	0.4000	3571.9200	591.7602	0.0820	0.0136
18	62.4825	0.4125	3773.3850	637.6626	0.0866	0.0146
19	62.4950	0.4250	3974.8500	686.0836	0.0912	0.0158
20	62.5075	0.4375	4176.3150	737.0232	0.0959	0.0169
21	62.5200	0.4500	4377.7800	790.4814	0.1005	0.0181
22	62.5325	0.4625	4579.2450	846.4581	0.1051	0.0194
23	62.5450	0.4750	4780.7100	904.9533	0.1098	0.0208
24	62.5575	0.4875	4982.1750	965.9670	0.1144	0.0222
25	62.5700	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	62.5825	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	62.5950	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	62.6075	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	62.6200	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	62.6325	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	62.6450	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	62.6575	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	62.6700	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	62.6950	0.6250	8183.8350	1861.8586	0.1879	0.0427
35	62.7200	0.6500	8831.7900	2074.5025	0.2027	0.0476
36	62.7450	0.6750	9479.7450	2303.3489	0.2176	0.0529
37	62.7700	0.7000	10127.7000	2548.3974	0.2325	0.0585
38	62.7950	0.7250	10775.6550	2809.6474	0.2474	0.0645
39	62.8200	0.7500	11423.6100	3087.0988	0.2622	0.0709
40	62.8450	0.7750	12071.5650	3380.7513	0.2771	0.0776
41	62.8700	0.8000	12719.5200	3690.6046	0.2920	0.0847
42	70.0400	7.9700	12719.5200	94889.5630	0.2920	2.1784

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| Variable storage data for node | CI-6
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	62.4000	0.0000	4.3560	0.0000	0.0001	0.0000
2	62.4250	0.0250	150.8265	1.5068	0.0035	0.0000
3	62.4500	0.0500	297.2970	7.0058	0.0068	0.0002
4	62.4750	0.0750	443.7675	16.2082	0.0102	0.0004
5	62.5000	0.1000	590.2380	29.0898	0.0135	0.0007
6	62.5250	0.1250	736.7085	45.6428	0.0169	0.0010
7	62.5500	0.1500	883.1790	65.8638	0.0203	0.0015
8	62.5750	0.1750	1029.6495	89.7507	0.0236	0.0021
9	62.6000	0.2000	1176.1200	117.3026	0.0270	0.0027
10	62.6250	0.2250	1475.5950	150.3783	0.0339	0.0035
11	62.6500	0.2500	1775.0700	190.9540	0.0408	0.0044
12	62.6750	0.2750	2074.5450	239.0256	0.0476	0.0055
13	62.7000	0.3000	2374.0200	294.5906	0.0545	0.0068
14	62.7250	0.3250	2673.4950	357.6475	0.0614	0.0082
15	62.7500	0.3500	2972.9700	428.1952	0.0683	0.0098
16	62.7750	0.3750	3272.4450	506.2330	0.0751	0.0116
17	62.8000	0.4000	3571.9200	591.7602	0.0820	0.0136
18	62.8125	0.4125	3773.3850	637.6626	0.0866	0.0146
19	62.8250	0.4250	3974.8500	686.0836	0.0912	0.0158
20	62.8375	0.4375	4176.3150	737.0232	0.0959	0.0169
21	62.8500	0.4500	4377.7800	790.4814	0.1005	0.0181
22	62.8625	0.4625	4579.2450	846.4581	0.1051	0.0194
23	62.8750	0.4750	4780.7100	904.9533	0.1098	0.0208
24	62.8875	0.4875	4982.1750	965.9670	0.1144	0.0222
25	62.9000	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	62.9125	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	62.9250	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	62.9375	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	62.9500	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	62.9625	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	62.9750	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	62.9875	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	63.0000	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	63.0250	0.6250	8183.8350	1861.8586	0.1879	0.0427
35	63.0500	0.6500	8831.7900	2074.5025	0.2027	0.0476
36	63.0750	0.6750	9479.7450	2303.3489	0.2176	0.0529
37	63.1000	0.7000	10127.7000	2548.3974	0.2325	0.0585
38	63.1250	0.7250	10775.6550	2809.6474	0.2474	0.0645
39	63.1500	0.7500	11423.6100	3087.0988	0.2622	0.0709
40	63.1750	0.7750	12071.5650	3380.7513	0.2771	0.0776
41	63.2000	0.8000	12719.5200	3690.6046	0.2920	0.0847
42	68.4500	6.0500	12719.5200	70468.0846	0.2920	1.6177

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| Variable storage data for node | CI-12.1
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	65.5700	0.0000	4.3560	0.0000	0.0001	0.0000
2	65.5950	0.0250	150.8265	1.5068	0.0035	0.0000
3	65.6200	0.0500	297.2970	7.0058	0.0068	0.0002
4	65.6450	0.0750	443.7675	16.2082	0.0102	0.0004
5	65.6700	0.1000	590.2380	29.0898	0.0135	0.0007
6	65.6950	0.1250	736.7085	45.6428	0.0169	0.0010
7	65.7200	0.1500	883.1790	65.8638	0.0203	0.0015
8	65.7450	0.1750	1029.6495	89.7507	0.0236	0.0021
9	65.7700	0.2000	1176.1200	117.3026	0.0270	0.0027
10	65.7950	0.2250	1475.5950	150.3783	0.0339	0.0035
11	65.8200	0.2500	1775.0700	190.9540	0.0408	0.0044
12	65.8450	0.2750	2074.5450	239.0256	0.0476	0.0055
13	65.8700	0.3000	2374.0200	294.5906	0.0545	0.0068
14	65.8950	0.3250	2673.4950	357.6475	0.0614	0.0082
15	65.9200	0.3500	2972.9700	428.1952	0.0683	0.0098
16	65.9450	0.3750	3272.4450	506.2330	0.0751	0.0116
17	65.9700	0.4000	3571.9200	591.7602	0.0820	0.0136
18	65.9825	0.4125	3773.3850	637.6626	0.0866	0.0146
19	65.9950	0.4250	3974.8500	686.0836	0.0912	0.0158
20	66.0075	0.4375	4176.3150	737.0232	0.0959	0.0169
21	66.0200	0.4500	4377.7800	790.4814	0.1005	0.0181
22	66.0325	0.4625	4579.2450	846.4581	0.1051	0.0194
23	66.0450	0.4750	4780.7100	904.9533	0.1098	0.0208
24	66.0575	0.4875	4982.1750	965.9670	0.1144	0.0222
25	66.0700	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	66.0825	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	66.0950	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	66.1075	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	66.1200	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	66.1325	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	66.1450	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	66.1575	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	66.1700	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	66.1950	0.6250	8183.8350	1861.8586	0.1879	0.0427
35	66.2200	0.6500	8831.7900	2074.5025	0.2027	0.0476
36	66.2450	0.6750	9479.7450	2303.3489	0.2176	0.0529

37	66.2700	0.7000	10127.7000	2548.3974	0.2325	0.0585
38	66.2950	0.7250	10775.6550	2809.6474	0.2474	0.0645
39	66.3200	0.7500	11423.6100	3087.0988	0.2622	0.0709
40	66.3450	0.7750	12071.5650	3380.7513	0.2771	0.0776
41	66.3700	0.8000	12719.5200	3690.6046	0.2920	0.0847
42	69.6000	4.0300	12719.5200	44774.6542	0.2920	1.0279

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| Variable storage data for node | CI-13.1
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	65.5320	0.0000	4.3560	0.0000	0.0001	0.0000
2	66.0470	0.5150	4.3560	2.2433	0.0001	0.0001
3	66.5620	1.0300	4.3560	4.4867	0.0001	0.0001
4	67.0770	1.5450	4.3560	6.7300	0.0001	0.0002
5	67.5920	2.0600	4.3560	8.9734	0.0001	0.0002
6	68.1070	2.5750	4.3560	11.2167	0.0001	0.0003
7	68.6220	3.0900	4.3560	13.4600	0.0001	0.0003
8	69.1370	3.6050	4.3560	15.7034	0.0001	0.0004
9	69.6520	4.1200	4.3560	17.9467	0.0001	0.0004
10	69.7145	4.1825	450.3015	28.3414	0.0103	0.0007
11	69.7770	4.2450	896.2470	69.6295	0.0206	0.0016
12	69.8395	4.3075	1342.1925	139.1134	0.0308	0.0032
13	69.9020	4.3700	1788.1380	236.6036	0.0411	0.0054
14	69.9645	4.4325	2234.0835	362.0397	0.0513	0.0083
15	70.0270	4.4950	2680.0290	515.3945	0.0615	0.0118
16	70.0895	4.5575	3125.9745	696.6535	0.0718	0.0160
17	70.1520	4.6200	3571.9200	905.8079	0.0820	0.0208
18	70.2145	4.6825	5374.2150	1183.4639	0.1234	0.0272
19	70.2770	4.7450	7176.5100	1574.3191	0.1648	0.0361
20	70.3395	4.8075	8978.8050	2078.1222	0.2061	0.0477
21	70.4020	4.8700	10781.1000	2694.7612	0.2475	0.0619
22	70.4645	4.9325	12583.3950	3424.1765	0.2889	0.0786
23	70.5270	4.9950	14385.6900	4266.3324	0.3302	0.0979
24	70.5895	5.0575	16187.9850	5221.2059	0.3716	0.1199
25	70.6520	5.1200	17990.2800	6288.7814	0.4130	0.1444
26	70.7145	5.1825	18251.6400	7421.3316	0.4190	0.1704
27	70.7770	5.2450	18513.0000	8570.2169	0.4250	0.1967
28	70.8395	5.3075	18774.3600	9735.4373	0.4310	0.2235
29	70.9020	5.3700	19035.7200	10916.9929	0.4370	0.2506
30	70.9645	5.4325	19297.0800	12114.8836	0.4430	0.2781
31	71.0270	5.4950	19558.4400	13329.1095	0.4490	0.3060
32	71.0895	5.5575	19819.8000	14559.6705	0.4550	0.3342
33	71.1520	5.6200	20081.1600	15806.5665	0.4610	0.3629

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| Variable storage data for node | CI-16
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	66.0000	0.0000	4.3560	0.0000	0.0001	0.0000
2	66.0250	0.0250	150.8265	1.5068	0.0035	0.0000
3	66.0500	0.0500	297.2970	7.0058	0.0068	0.0002
4	66.0750	0.0750	443.7675	16.2082	0.0102	0.0004
5	66.1000	0.1000	590.2380	29.0898	0.0135	0.0007
6	66.1250	0.1250	736.7085	45.6428	0.0169	0.0010
7	66.1500	0.1500	883.1790	65.8638	0.0203	0.0015
8	66.1750	0.1750	1029.6495	89.7507	0.0236	0.0021
9	66.2000	0.2000	1176.1200	117.3026	0.0270	0.0027
10	66.2250	0.2250	1475.5950	150.3783	0.0339	0.0035
11	66.2500	0.2500	1775.0700	190.9540	0.0408	0.0044
12	66.2750	0.2750	2074.5450	239.0256	0.0476	0.0055
13	66.3000	0.3000	2374.0200	294.5906	0.0545	0.0068
14	66.3250	0.3250	2673.4950	357.6475	0.0614	0.0082
15	66.3500	0.3500	2972.9700	428.1952	0.0683	0.0098
16	66.3750	0.3750	3272.4450	506.2330	0.0751	0.0116
17	66.4000	0.4000	3571.9200	591.7602	0.0820	0.0136
18	66.4125	0.4125	3773.3850	637.6626	0.0866	0.0146
19	66.4250	0.4250	3974.8500	686.0836	0.0912	0.0158
20	66.4375	0.4375	4176.3150	737.0232	0.0959	0.0169
21	66.4500	0.4500	4377.7800	790.4814	0.1005	0.0181
22	66.4625	0.4625	4579.2450	846.4581	0.1051	0.0194
23	66.4750	0.4750	4780.7100	904.9533	0.1098	0.0208
24	66.4875	0.4875	4982.1750	965.9670	0.1144	0.0222
25	66.5000	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	66.5125	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	66.5250	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	66.5375	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	66.5500	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	66.5625	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	66.5750	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	66.5875	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	66.6000	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	66.6250	0.6250	8183.8350	1861.8586	0.1879	0.0427
35	66.6500	0.6500	8831.7900	2074.5025	0.2027	0.0476
36	66.6750	0.6750	9479.7450	2303.3489	0.2176	0.0529
37	66.7000	0.7000	10127.7000	2548.3974	0.2325	0.0585
38	66.7250	0.7250	10775.6550	2809.6474	0.2474	0.0645
39	66.7500	0.7500	11423.6100	3087.0988	0.2622	0.0709
40	66.7750	0.7750	12071.5650	3380.7513	0.2771	0.0776
41	66.8000	0.8000	12719.5200	3690.6046	0.2920	0.0847
42	70.1700	4.1700	12719.5200	46555.3870	0.2920	1.0688

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| Variable storage data for node | CI-8.1
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	69.8100	0.0000	4.3560	0.0000	0.0001	0.0000
2	70.1375	0.3275	4.3560	1.4266	0.0001	0.0000
3	70.4650	0.6550	4.3560	2.8532	0.0001	0.0001
4	70.7925	0.9825	4.3560	4.2798	0.0001	0.0001
5	71.1200	1.3100	4.3560	5.7064	0.0001	0.0001
6	71.4475	1.6375	4.3560	7.1330	0.0001	0.0002
7	71.7750	1.9650	4.3560	8.5595	0.0001	0.0002
8	72.1025	2.2925	4.3560	9.9861	0.0001	0.0002
9	72.4300	2.6200	4.3560	11.4127	0.0001	0.0003
10	72.4925	2.6825	450.3015	21.8074	0.0103	0.0005
11	72.5550	2.7450	896.2470	63.0955	0.0206	0.0014
12	72.6175	2.8075	1342.1925	132.5794	0.0308	0.0030
13	72.6800	2.8700	1788.1380	230.0696	0.0411	0.0053
14	72.7425	2.9325	2234.0835	355.5057	0.0513	0.0082
15	72.8050	2.9950	2680.0290	508.8605	0.0615	0.0117
16	72.8675	3.0575	3125.9745	690.1195	0.0718	0.0158
17	72.9300	3.1200	3571.9200	899.2739	0.0820	0.0206
18	72.9925	3.1825	5374.2150	1176.9299	0.1234	0.0270
19	73.0550	3.2450	7176.5100	1567.7851	0.1648	0.0360
20	73.1175	3.3075	8978.8050	2071.5882	0.2061	0.0476
21	73.1800	3.3700	10781.1000	2688.2272	0.2475	0.0617
22	73.2425	3.4325	12583.3950	3417.6425	0.2889	0.0785
23	73.3050	3.4950	14385.6900	4259.7984	0.3302	0.0978
24	73.3675	3.5575	16187.9850	5214.6719	0.3716	0.1197
25	73.4300	3.6200	17990.2800	6282.2474	0.4130	0.1442
26	73.4925	3.6825	18251.6400	7414.7976	0.4190	0.1702

27	73.5550	3.7450	18513.0000	8563.6829	0.4250	0.1966
28	73.6175	3.8075	18774.3600	9728.9033	0.4310	0.2233
29	73.6800	3.8700	19035.7200	10910.4589	0.4370	0.2505
30	73.7425	3.9325	19297.0800	12108.3496	0.4430	0.2780
31	73.8050	3.9950	19558.4400	13322.5755	0.4490	0.3058
32	73.8675	4.0575	19819.8000	14553.1365	0.4550	0.3341
33	73.9300	4.1200	20081.1600	15800.0325	0.4610	0.3627

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| Variable storage data for node | CI-4.2
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	69.6300	0.0000	4.3560	0.0000	0.0001	0.0000
2	69.6550	0.0250	150.8265	1.5068	0.0035	0.0000
3	69.6800	0.0500	297.2970	7.0058	0.0068	0.0002
4	69.7050	0.0750	443.7675	16.2082	0.0102	0.0004
5	69.7300	0.1000	590.2380	29.0898	0.0135	0.0007
6	69.7550	0.1250	736.7085	45.6428	0.0169	0.0010
7	69.7800	0.1500	883.1790	65.8638	0.0203	0.0015
8	69.8050	0.1750	1029.6495	89.7507	0.0236	0.0021
9	69.8300	0.2000	1176.1200	117.3026	0.0270	0.0027
10	69.8550	0.2250	1475.5950	150.3783	0.0339	0.0035
11	69.8800	0.2500	1775.0700	190.9540	0.0408	0.0044
12	69.9050	0.2750	2074.5450	239.0256	0.0476	0.0055
13	69.9300	0.3000	2374.0200	294.5906	0.0545	0.0068
14	69.9550	0.3250	2673.4950	357.6475	0.0614	0.0082
15	69.9800	0.3500	2972.9700	428.1952	0.0683	0.0098
16	70.0050	0.3750	3272.4450	506.2330	0.0751	0.0116
17	70.0300	0.4000	3571.9200	591.7602	0.0820	0.0136
18	70.0425	0.4125	3773.3850	637.6626	0.0866	0.0146
19	70.0550	0.4250	3974.8500	686.0836	0.0912	0.0158
20	70.0675	0.4375	4176.3150	737.0232	0.0959	0.0169
21	70.0800	0.4500	4377.7800	790.4814	0.1005	0.0181
22	70.0925	0.4625	4579.2450	846.4581	0.1051	0.0194
23	70.1050	0.4750	4780.7100	904.9533	0.1098	0.0208
24	70.1175	0.4875	4982.1750	965.9670	0.1144	0.0222
25	70.1300	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	70.1425	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	70.1550	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	70.1675	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	70.1800	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	70.1925	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	70.2050	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	70.2175	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	70.2300	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	70.2550	0.6250	8183.8350	1861.8586	0.1879	0.0427
35	70.2800	0.6500	8831.7900	2074.5025	0.2027	0.0476
36	70.3050	0.6750	9479.7450	2303.3489	0.2176	0.0529
37	70.3300	0.7000	10127.7000	2548.3974	0.2325	0.0585
38	70.3550	0.7250	10775.6550	2809.6474	0.2474	0.0645
39	70.3800	0.7500	11423.6100	3087.0988	0.2622	0.0709
40	70.4050	0.7750	12071.5650	3380.7513	0.2771	0.0776
41	70.4300	0.8000	12719.5200	3690.6046	0.2920	0.0847
42	74.3400	4.7100	12719.5200	53423.9278	0.2920	1.2264

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| Variable storage data for node | CI-2.2
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	69.8100	0.0000	4.3560	0.0000	0.0001	0.0000
2	69.8350	0.0250	150.8265	1.5068	0.0035	0.0000
3	69.8600	0.0500	297.2970	7.0058	0.0068	0.0002
4	69.8850	0.0750	443.7675	16.2082	0.0102	0.0004
5	69.9100	0.1000	590.2380	29.0898	0.0135	0.0007
6	69.9350	0.1250	736.7085	45.6428	0.0169	0.0010
7	69.9600	0.1500	883.1790	65.8638	0.0203	0.0015
8	69.9850	0.1750	1029.6495	89.7507	0.0236	0.0021
9	70.0100	0.2000	1176.1200	117.3026	0.0270	0.0027
10	70.0350	0.2250	1475.5950	150.3783	0.0339	0.0035
11	70.0600	0.2500	1775.0700	190.9540	0.0408	0.0044
12	70.0850	0.2750	2074.5450	239.0256	0.0476	0.0055
13	70.1100	0.3000	2374.0200	294.5906	0.0545	0.0068
14	70.1350	0.3250	2673.4950	357.6475	0.0614	0.0082
15	70.1600	0.3500	2972.9700	428.1952	0.0683	0.0098
16	70.1850	0.3750	3272.4450	506.2330	0.0751	0.0116
17	70.2100	0.4000	3571.9200	591.7602	0.0820	0.0136
18	70.2225	0.4125	3773.3850	637.6626	0.0866	0.0146
19	70.2350	0.4250	3974.8500	686.0836	0.0912	0.0158
20	70.2475	0.4375	4176.3150	737.0232	0.0959	0.0169
21	70.2600	0.4500	4377.7800	790.4814	0.1005	0.0181
22	70.2725	0.4625	4579.2450	846.4581	0.1051	0.0194
23	70.2850	0.4750	4780.7100	904.9533	0.1098	0.0208
24	70.2975	0.4875	4982.1750	965.9670	0.1144	0.0222
25	70.3100	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	70.3225	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	70.3350	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	70.3475	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	70.3600	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	70.3725	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	70.3850	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	70.3975	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	70.4100	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	70.4350	0.6250	8183.8350	1861.8586	0.1879	0.0427
35	70.4600	0.6500	8831.7900	2074.5025	0.2027	0.0476
36	70.4850	0.6750	9479.7450	2303.3489	0.2176	0.0529
37	70.5100	0.7000	10127.7000	2548.3974	0.2325	0.0585
38	70.5350	0.7250	10775.6550	2809.6474	0.2474	0.0645
39	70.5600	0.7500	11423.6100	3087.0988	0.2622	0.0709
40	70.5850	0.7750	12071.5650	3380.7513	0.2771	0.0776
41	70.6100	0.8000	12719.5200	3690.6046	0.2920	0.0847
42	74.8300	5.0200	12719.5200	57366.9790	0.2920	1.3170

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| Variable storage data for node | CI-5.1
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	69.3100	0.0000	4.3560	0.0000	0.0001	0.0000
2	69.3350	0.0250	150.8265	1.5068	0.0035	0.0000
3	69.3600	0.0500	297.2970	7.0058	0.0068	0.0002
4	69.3850	0.0750	443.7675	16.2082	0.0102	0.0004
5	69.4100	0.1000	590.2380	29.0898	0.0135	0.0007
6	69.4350	0.1250	736.7085	45.6428	0.0169	0.0010
7	69.4600	0.1500	883.1790	65.8638	0.0203	0.0015
8	69.4850	0.1750	1029.6495	89.7507	0.0236	0.0021
9	69.5100	0.2000	1176.1200	117.3026	0.0270	0.0027
10	69.5350	0.2250	1475.5950	150.3783	0.0339	0.0035
11	69.5600	0.2500	1775.0700	190.9540	0.0408	0.0044
12	69.5850	0.2750	2074.5450	239.0256	0.0476	0.0055
13	69.6100	0.3000	2374.0200	294.5906	0.0545	0.0068
14	69.6350	0.3250	2673.4950	357.6475	0.0614	0.0082
15	69.6600	0.3500	2972.9700	428.1952	0.0683	0.0098
16	69.6850	0.3750	3272.4450	506.2330	0.0751	0.0116

17	69.7100	0.4000	3571.9200	591.7602	0.0820	0.0136
18	69.7225	0.4125	3773.3850	637.6626	0.0866	0.0146
19	69.7350	0.4250	3974.8500	686.0836	0.0912	0.0158
20	69.7475	0.4375	4176.3150	737.0232	0.0959	0.0169
21	69.7600	0.4500	4377.7800	790.4814	0.1005	0.0181
22	69.7725	0.4625	4579.2450	846.4581	0.1051	0.0194
23	69.7850	0.4750	4780.7100	904.9533	0.1098	0.0208
24	69.7975	0.4875	4982.1750	965.9670	0.1144	0.0222
25	69.8100	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	69.8225	0.5125	5477.6700	1096.1239	0.1258	0.0252
27	69.8350	0.5250	5771.7000	1166.4244	0.1325	0.0268
28	69.8475	0.5375	6065.7300	1240.4008	0.1392	0.0285
29	69.8600	0.5500	6359.7600	1318.0528	0.1460	0.0303
30	69.8725	0.5625	6653.7900	1399.3806	0.1527	0.0321
31	69.8850	0.5750	6947.8200	1484.3840	0.1595	0.0341
32	69.8975	0.5875	7241.8500	1573.0631	0.1662	0.0361
33	69.9100	0.6000	7535.8800	1665.4178	0.1730	0.0382
34	69.9350	0.6250	8183.8350	1861.8586	0.1879	0.0427
35	69.9600	0.6500	8831.7900	2074.5025	0.2027	0.0476
36	69.9850	0.6750	9479.7450	2303.3489	0.2176	0.0529
37	70.0100	0.7000	10127.7000	2548.3974	0.2325	0.0585
38	70.0350	0.7250	10775.6550	2809.6474	0.2474	0.0645
39	70.0600	0.7500	11423.6100	3087.0988	0.2622	0.0709
40	70.0850	0.7750	12071.5650	3380.7513	0.2771	0.0776
41	70.1100	0.8000	12719.5200	3690.6046	0.2920	0.0847
42	73.6400	4.3300	12719.5200	48590.5102	0.2920	1.1155

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| Variable storage data for node | CI-6.1
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	67.3100	0.0000	4.3560	0.0000	0.0001	0.0000
2	67.9475	0.6375	4.3560	2.7769	0.0001	0.0001
3	68.5850	1.2750	4.3560	5.5539	0.0001	0.0001
4	69.2225	1.9125	4.3560	8.3308	0.0001	0.0002
5	69.8600	2.5500	4.3560	11.1078	0.0001	0.0003
6	70.4975	3.1875	4.3560	13.8847	0.0001	0.0003
7	71.1350	3.8250	4.3560	16.6617	0.0001	0.0004
8	71.7725	4.4625	4.3560	19.4386	0.0001	0.0004
9	72.4100	5.1000	4.3560	22.2156	0.0001	0.0005
10	72.4725	5.1625	450.3015	32.6103	0.0103	0.0007
11	72.5350	5.2250	896.2470	73.8984	0.0206	0.0017
12	72.5975	5.2875	1342.1925	143.3823	0.0308	0.0033
13	72.6600	5.3500	1788.1380	240.8725	0.0411	0.0055
14	72.7225	5.4125	2234.0835	366.3086	0.0513	0.0084
15	72.7850	5.4750	2680.0290	519.6634	0.0615	0.0119
16	72.8475	5.5375	3125.9745	700.9224	0.0718	0.0161
17	72.9100	5.6000	3571.9200	910.0768	0.0820	0.0209
18	72.9725	5.6625	5374.2150	1187.7328	0.1234	0.0273
19	73.0350	5.7250	7176.5100	1578.5880	0.1648	0.0362
20	73.0975	5.7875	8978.8050	2082.3911	0.2061	0.0478
21	73.1600	5.8500	10781.1000	2699.0301	0.2475	0.0620
22	73.2225	5.9125	12583.3950	3428.4454	0.2889	0.0787
23	73.2850	5.9750	14385.6900	4270.6013	0.3302	0.0980
24	73.3475	6.0375	16187.9850	5225.4748	0.3716	0.1200
25	73.4100	6.1000	17990.2800	6293.0503	0.4130	0.1445
26	73.4725	6.1625	18251.6400	7425.6004	0.4190	0.1705
27	73.5350	6.2250	18513.0000	8574.4858	0.4250	0.1968
28	73.5975	6.2875	18774.3600	9739.7062	0.4310	0.2236
29	73.6600	6.3500	19035.7200	10921.2618	0.4370	0.2507
30	73.7225	6.4125	19297.0800	12119.1525	0.4430	0.2782
31	73.7850	6.4750	19558.4400	13333.3784	0.4490	0.3061
32	73.8475	6.5375	19819.8000	14563.9393	0.4550	0.3343
33	73.9100	6.6000	20081.1600	15810.8354	0.4610	0.3630

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| Variable storage data for node | CI-14
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	66.1400	0.0000	4.3560	0.0000	0.0001	0.0000
2	66.8500	0.7100	4.3560	3.0928	0.0001	0.0001
3	67.5600	1.4200	4.3560	6.1855	0.0001	0.0001
4	68.2700	2.1300	4.3560	9.2783	0.0001	0.0002
5	68.9800	2.8400	4.3560	12.3710	0.0001	0.0003
6	69.6900	3.5500	4.3560	15.4638	0.0001	0.0004
7	70.4000	4.2600	4.3560	18.5566	0.0001	0.0004
8	71.1100	4.9700	4.3560	21.6493	0.0001	0.0005
9	71.8200	5.6800	4.3560	24.7421	0.0001	0.0006
10	71.8825	5.7425	450.3015	35.1368	0.0103	0.0008
11	71.9450	5.8050	896.2470	76.4249	0.0206	0.0018
12	72.0075	5.8675	1342.1925	145.9087	0.0308	0.0033
13	72.0700	5.9300	1788.1380	243.3990	0.0411	0.0056
14	72.1325	5.9925	2234.0835	368.8351	0.0513	0.0085
15	72.1950	6.0550	2680.0290	522.1899	0.0615	0.0120
16	72.2575	6.1175	3125.9745	703.4489	0.0718	0.0161
17	72.3200	6.1800	3571.9200	912.6032	0.0820	0.0210
18	72.3825	6.2425	5374.2150	1190.2593	0.1234	0.0273
19	72.4450	6.3050	7176.5100	1581.1144	0.1648	0.0363
20	72.5075	6.3675	8978.8050	2084.9175	0.2061	0.0479
21	72.5700	6.4300	10781.1000	2701.5566	0.2475	0.0620
22	72.6325	6.4925	12583.3950	3430.9719	0.2889	0.0788
23	72.6950	6.5550	14385.6900	4273.1278	0.3302	0.0981
24	72.7575	6.6175	16187.9850	5228.0013	0.3716	0.1200
25	72.8200	6.6800	17990.2800	6295.5767	0.4130	0.1445
26	72.8825	6.7425	18251.6400	7428.1269	0.4190	0.1705
27	72.9450	6.8050	18513.0000	8577.0122	0.4250	0.1969
28	73.0075	6.8675	18774.3600	9742.2327	0.4310	0.2237
29	73.0700	6.9300	19035.7200	10923.7883	0.4370	0.2508
30	73.1325	6.9925	19297.0800	12121.6790	0.4430	0.2783
31	73.1950	7.0550	19558.4400	13335.9049	0.4490	0.3062
32	73.2575	7.1175	19819.8000	14566.4658	0.4550	0.3344
33	73.3200	7.1800	20081.1600	15813.3619	0.4610	0.3630

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| Variable storage data for node | CI-14A
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	70.3100	0.0000	4.3560	0.0000	0.0001	0.0000
2	70.5850	0.2750	4.3560	1.1979	0.0001	0.0000
3	70.8600	0.5500	4.3560	2.3958	0.0001	0.0001
4	71.1350	0.8250	4.3560	3.5937	0.0001	0.0001
5	71.4100	1.1000	4.3560	4.7916	0.0001	0.0001
6	71.6850	1.3750	4.3560	5.9895	0.0001	0.0001
7	71.9600	1.6500	4.3560	7.1874	0.0001	0.0002
8	72.2350	1.9250	4.3560	8.3853	0.0001	0.0002
9	72.5100	2.2000	4.3560	9.5832	0.0001	0.0002
10	72.5725	2.2625	450.3015	19.9779	0.0103	0.0005
11	72.6350	2.3250	896.2470	61.2660	0.0206	0.0014
12	72.6975	2.3875	1342.1925	130.7499	0.0308	0.0030
13	72.7600	2.4500	1788.1380	228.2401	0.0411	0.0052
14	72.8225	2.5125	2234.0835	353.6762	0.0513	0.0081
15	72.8850	2.5750	2680.0290	507.0310	0.0615	0.0116

16	72.9475	2.6375	3125.9745	688.2900	0.0718	0.0158
17	73.0100	2.7000	3571.9200	897.4444	0.0820	0.0206
18	73.0725	2.7625	5374.2150	1175.1004	0.1234	0.0270
19	73.1350	2.8250	7176.5100	1565.9556	0.1648	0.0359
20	73.1975	2.8875	8978.8050	2069.7587	0.2061	0.0475
21	73.2600	2.9500	10781.1000	2686.3977	0.2475	0.0617
22	73.3225	3.0125	12583.3950	3415.8130	0.2889	0.0784
23	73.3850	3.0750	14385.6900	4257.9689	0.3302	0.0977
24	73.4475	3.1375	16187.9850	5212.8424	0.3716	0.1197
25	73.5100	3.2000	17990.2800	6280.4179	0.4130	0.1442
26	73.5725	3.2625	18251.6400	7412.9680	0.4190	0.1702
27	73.6350	3.3250	18513.0000	8561.8534	0.4250	0.1966
28	73.6975	3.3875	18774.3600	9727.0738	0.4310	0.2233
29	73.7600	3.4500	19035.7200	10908.6294	0.4370	0.2504
30	73.8225	3.5125	19297.0800	12106.5201	0.4430	0.2779
31	73.8850	3.5750	19558.4400	13320.7460	0.4490	0.3058
32	73.9475	3.6375	19819.8000	14551.3069	0.4550	0.3341
33	74.0100	3.7000	20081.1600	15798.2030	0.4610	0.3627

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| Variable storage data for node | CI-15A
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	68.3100	0.0000	4.3560	0.0000	0.0001	0.0000
2	68.8225	0.5125	4.3560	2.2324	0.0001	0.0001
3	69.3350	1.0250	4.3560	4.4649	0.0001	0.0001
4	69.8475	1.5375	4.3560	6.6973	0.0001	0.0002
5	70.3600	2.0500	4.3560	8.9298	0.0001	0.0002
6	70.8725	2.5625	4.3560	11.1622	0.0001	0.0003
7	71.3850	3.0750	4.3560	13.3947	0.0001	0.0003
8	71.8975	3.5875	4.3560	15.6271	0.0001	0.0004
9	72.4100	4.1000	4.3560	17.8596	0.0001	0.0004
10	72.4725	4.1625	450.3015	28.2543	0.0103	0.0006
11	72.5350	4.2250	896.2470	69.5424	0.0206	0.0016
12	72.5975	4.2875	1342.1925	139.0263	0.0308	0.0032
13	72.6600	4.3500	1788.1380	236.5165	0.0411	0.0054
14	72.7225	4.4125	2234.0835	361.9526	0.0513	0.0083
15	72.7850	4.4750	2680.0290	515.3074	0.0615	0.0118
16	72.8475	4.5375	3125.9745	696.5664	0.0718	0.0160
17	72.9100	4.6000	3571.9200	905.7208	0.0820	0.0208
18	72.9725	4.6625	5374.2150	1183.3768	0.1234	0.0272
19	73.0350	4.7250	7176.5100	1574.2320	0.1648	0.0361
20	73.0975	4.7875	8978.8050	2078.0351	0.2061	0.0477
21	73.1600	4.8500	10781.1000	2694.6741	0.2475	0.0619
22	73.2225	4.9125	12583.3950	3424.0894	0.2889	0.0786
23	73.2850	4.9750	14385.6900	4266.2453	0.3302	0.0979
24	73.3475	5.0375	16187.9850	5221.1188	0.3716	0.1199
25	73.4100	5.1000	17990.2800	6288.6943	0.4130	0.1444
26	73.4725	5.1625	18251.6400	7421.2444	0.4190	0.1704
27	73.5350	5.2250	18513.0000	8570.1298	0.4250	0.1967
28	73.5975	5.2875	18774.3600	9735.3502	0.4310	0.2235
29	73.6600	5.3500	19035.7200	10916.9058	0.4370	0.2506
30	73.7225	5.4125	19297.0800	12114.7965	0.4430	0.2781
31	73.7850	5.4750	19558.4400	13329.0224	0.4490	0.3060
32	73.8475	5.5375	19819.8000	14559.5833	0.4550	0.3342
33	73.9100	5.6000	20081.1600	15806.4794	0.4610	0.3629

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| Variable storage data for node | W43RD
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	63.7380	0.0000	435.6000	0.0000	0.0100	0.0000
2	63.7918	0.0537	3702.6000	96.8966	0.0850	0.0022
3	63.8455	0.1075	6969.6000	379.1222	0.1600	0.0087
4	63.8993	0.1613	10236.6000	838.7348	0.2350	0.0193
5	63.9530	0.2150	13503.6000	1474.7293	0.3100	0.0339
6	64.0067	0.2687	16770.6000	2286.7646	0.3850	0.0525
7	64.0605	0.3225	20037.6000	3274.6836	0.4600	0.0752
8	64.1142	0.3762	23304.6000	4438.4006	0.5350	0.1019
9	64.1680	0.4300	26571.6000	5777.8639	0.6100	0.1326
10	64.2930	0.5550	31744.3500	9417.8219	0.7288	0.2162
11	64.4180	0.6800	36917.1000	13705.0973	0.8475	0.3146
12	64.5430	0.8050	42089.8500	18639.5001	0.9663	0.4279
13	64.6680	0.9300	47262.6000	24220.9062	1.0850	0.5560
14	64.7930	1.0550	52435.3500	30449.2306	1.2038	0.6990
15	64.9180	1.1800	57608.1000	37324.4120	1.3225	0.8569
16	65.0430	1.3050	62780.8500	44846.4051	1.4413	1.0295
17	65.1680	1.4300	67953.6000	53015.1754	1.5600	1.2171
18	72.5700	8.8320	67953.6000	556007.7226	1.5600	12.7642

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| Variable storage data for node | COH01
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	62.1600	0.0000	435.6000	0.0000	0.0100	0.0000
2	62.2800	0.1200	6207.3000	331.4902	0.1425	0.0076
3	62.4000	0.2400	11979.0000	1403.8647	0.2750	0.0322
4	62.5200	0.3600	17750.7000	3176.3340	0.4075	0.0729
5	62.6400	0.4800	23522.4000	5644.6089	0.5400	0.1296
6	62.7600	0.6000	29294.1000	8807.2727	0.6725	0.2022
7	62.8800	0.7200	35065.8000	12663.6803	0.8050	0.2907
8	63.0000	0.8400	40837.5000	17213.4831	0.9375	0.3952
9	63.1200	0.9600	46609.2000	22456.4715	1.0700	0.5155
10	63.2450	1.0850	66102.3000	29465.5563	1.5175	0.6764
11	63.3700	1.2100	85595.4000	38920.4617	1.9650	0.8935
12	63.4950	1.3350	105088.5000	50817.3933	2.4125	1.1666
13	63.6200	1.4600	124581.6000	65154.5094	2.8600	1.4957
14	63.7450	1.5850	144074.7000	81930.7757	3.3075	1.8809
15	63.8700	1.7100	163567.8000	101145.5529	3.7550	2.3220
16	63.9950	1.8350	183060.9000	122798.4187	4.2025	2.8191
17	64.1200	1.9600	202554.0000	146889.0789	4.6500	3.3721
18	68.0400	5.8800	202554.0000	940900.7589	4.6500	21.6001

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| Variable storage data for node | MH-18S
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	62.4200	0.0000	435.6000	0.0000	0.0100	0.0000
2	62.5575	0.1375	980.1000	94.8337	0.0225	0.0022
3	62.6950	0.2750	1524.6000	265.6591	0.0350	0.0061
4	62.8325	0.4125	2069.1000	511.7752	0.0475	0.0117
5	62.9700	0.5500	2613.6000	832.9829	0.0600	0.0191
6	63.1075	0.6875	3158.1000	1229.1974	0.0725	0.0282
7	63.2450	0.8250	3702.6000	1700.3745	0.0850	0.0390
8	63.3825	0.9625	4247.1000	2246.4886	0.0975	0.0516
9	63.5200	1.1000	4791.6000	2867.5230	0.1100	0.0658
10	63.6450	1.2250	8820.9000	3705.5959	0.2025	0.0851
11	63.7700	1.3500	12850.2000	5052.1672	0.2950	0.1160
12	63.8950	1.4750	16879.5000	6904.5585	0.3875	0.1585
13	64.0200	1.6000	20908.8000	9261.8391	0.4800	0.2126

14	64.1450	1.7250	24938.1000	12123.5745	0.5725	0.2783
15	64.2700	1.8500	28967.4000	15489.5265	0.6650	0.3556
16	64.3950	1.9750	32996.7000	19359.5506	0.7575	0.4444
17	64.5200	2.1000	37026.0000	23733.5522	0.8500	0.5448
18	64.6450	2.2250	53361.0000	29351.7333	1.2250	0.6738
19	64.7700	2.3500	69696.0000	37020.1083	1.6000	0.8499
20	64.8950	2.4750	86031.0000	46735.1479	1.9750	1.0729
21	65.0200	2.6000	102366.0000	58495.1791	2.3500	1.3429
22	65.1450	2.7250	118701.0000	72299.2763	2.7250	1.6598
23	65.2700	2.8500	135036.0000	88146.8731	3.1000	2.0236
24	65.3950	2.9750	151371.0000	106037.5980	3.4750	2.4343
25	65.5200	3.1000	167706.0000	125971.1937	3.8500	2.8919
26	65.6450	3.2250	228199.9500	150618.4615	5.2388	3.4577
27	65.7700	3.3500	288693.9000	182850.3246	6.6275	4.1977
28	65.8950	3.4750	349187.8500	222658.0388	8.0163	5.1115
29	66.0200	3.6000	409681.8000	270037.0793	9.4050	6.1992
30	66.1450	3.7250	470175.7500	324984.7997	10.7938	7.4606
31	66.2700	3.8500	530669.7000	387499.5176	12.1825	8.8958
32	66.3950	3.9750	591163.6500	457580.0972	13.5712	10.5046
33	66.5200	4.1000	651657.6000	535225.7350	14.9600	12.2871
34	68.3500	5.9300	651657.6000	1.727759E+06	14.9600	39.6639

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| Variable storage data for node | MH-7S
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	56.1100	0.0000	435.6000	0.0000	0.0100	0.0000
2	56.1562	0.0462	108627.7500	1787.4419	2.4937	0.0410
3	56.2025	0.0925	216819.9000	9170.7364	4.9775	0.2105
4	56.2488	0.1387	325012.0500	21616.4893	7.4612	0.4962
5	56.2950	0.1850	433204.2000	39090.4324	9.9450	0.8974
6	56.3413	0.2313	541396.3500	61581.6358	12.4287	1.4137
7	56.3875	0.2775	649588.5000	89085.2015	14.9125	2.0451
8	56.4337	0.3237	757780.6500	121598.5092	17.3962	2.7915
9	56.4800	0.3700	865972.8000	159119.9924	19.8800	3.6529
10	56.6050	0.4950	1124719.200	283186.4233	25.8200	6.5011
11	56.7300	0.6200	1383465.600	439669.1828	31.7600	10.0934
12	56.8550	0.7450	1642212.000	628543.1185	37.7000	14.4294
13	56.9800	0.8700	1900958.400	849794.1781	43.6400	19.5086
14	57.1050	0.9950	2159704.800	1.103414E+06	49.5800	25.3309
15	57.2300	1.1200	2418451.200	1.389396E+06	55.5200	31.8961
16	57.3550	1.2450	2677197.600	1.707737E+06	61.4600	39.2042
17	57.4800	1.3700	2935944.000	2.058434E+06	67.4000	47.2551
18	57.6050	1.4950	3125157.750	2.437191E+06	71.7438	55.9502
19	57.7300	1.6200	3314371.500	2.839604E+06	76.0875	65.1883
20	57.8550	1.7450	3503585.250	3.265672E+06	80.4313	74.9695
21	57.9800	1.8700	3692799.000	3.715394E+06	84.7750	85.2937
22	58.1050	1.9950	3882012.750	4.188770E+06	89.1188	96.1609
23	58.2300	2.1200	4071226.500	4.685801E+06	93.4625	107.5712
24	58.3550	2.2450	4260440.250	5.206485E+06	97.8062	119.5245
25	58.4800	2.3700	4449654.000	5.750823E+06	102.1500	132.0207
26	71.6300	15.5200	4449654.000	64.263774E+06	102.1500	1475.2932

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| FREE OUTFALL DATA (DATA GROUP I1) |
| BOUNDARY CONDITION ON DATA GROUP J1 |
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Outfall at Junction....BRCKH00.1 has boundary condition number... 1
Outfall at Junction....E5150100 has boundary condition number... 2

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| INTERNAL CONNECTIVITY INFORMATION |
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CONDUIT	JUNCTION	JUNCTION
FREE # 1	BRCKH00.1	BOUNDARY
FREE # 2	E5150100	BOUNDARY

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| Boundary Condition Information |
| Data Groups J1-J4 |
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| XP Note Field Summary |
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| Table E9 - JUNCTION SUMMARY STATISTICS |
| The Maximum area is only the area of the node, it |
| does not include the area of the surrounding conduits |
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Junction Name	Ground Elevation feet	Uppermost PipeCrown Elevation feet	Maximum Junction Elevation feet	Time of Occurence Hr.	Min.	Feet of Surcharge at Max Elevation	Freeboard of node feet	Maximum Junction Area ft^2	Maximum Gutter Depth feet	Maximum Gutter Width feet	Maximum Gutter Velocity ft/s
MH1-2	67.7400	65.8200	70.2598	17	46	4.4398	0.0000	62130.929	0.0000	0.0000	0.0000
MH1-1	67.5800	66.4600	70.3443	17	59	3.8843	0.0000	79342.528	0.0000	0.0000	0.0000
CI-3A	67.3600	65.4200	69.5353	18	40	4.1153	0.0000	44024.433	0.0000	0.0000	0.0000
MH1-4	67.0500	64.9800	69.6225	18	12	4.6425	0.0000	65492.617	0.0000	0.0000	0.0000
CI-3	67.9200	65.3100	69.5640	18	11	4.2540	0.0000	12719.520	0.0000	0.0000	0.0000
MH1-3	68.0000	65.2700	69.6069	18	5	4.3369	0.0000	24936.771	0.0000	0.0000	0.0000
CI-1	68.4600	66.5200	70.3497	17	59	3.8297	0.0000	12719.520	0.0000	0.0000	0.0000
CI-2	67.6100	66.1800	70.2381	17	43	4.0581	0.0000	12719.520	0.0000	0.0000	0.0000
E11504.6	72.6200	72.2400	72.2143	18	8	0.0000	0.4057	12.5660	0.0000	0.0000	0.0000
CI-4	69.5800	65.0200	69.6270	18	11	4.6070	0.0000	279.6624	0.0000	0.0000	0.0000
MH1-4.1	71.9800	61.5000	70.3136	18	5	8.8136	1.6664	12.5660	0.0000	0.0000	0.0000
CI-1.1	66.1800	60.7600	69.8799	17	58	9.1199	0.0000	29567.427	0.0000	0.0000	0.0000
MH1-1.1	65.1600	60.7600	69.8793	17	57	9.1193	0.0000	560468.05	0.0000	0.0000	0.0000
MH1-2.1	66.1200	61.0000	69.7066	18	55	8.7066	0.0000	180557.18	0.0000	0.0000	0.0000
CI-2.1	67.9800	61.0400	69.7078	18	56	8.6678	0.0000	28142.311	0.0000	0.0000	0.0000
JCT-3	69.8100	61.4600	70.3118	18	5	8.8518	0.0000	8258.5596	0.0000	0.0000	0.0000
MH-7	73.0000	66.0600	71.4375	18	34	5.3775	1.5625	12.5660	0.0000	0.0000	0.0000
MH-6	67.7100	62.2000	70.8137	18	22	8.6137	0.0000	111395.76	0.0000	0.0000	0.0000
JCT-10	73.0000	62.7900	70.8395	18	25	8.0495	2.1605	12.5660	0.0000	0.0000	0.0000
CI-3.1	69.8600	62.8900	70.8396	18	24	7.9496	0.0000	4.3560	0.0000	0.0000	0.0000
MH1-22	70.9900	63.5100	70.8572	18	27	7.3472	0.1328	2177.9873	0.0000	0.0000	0.0000
CI-9	69.0700	63.5700	70.8550	18	27	7.2850	0.0000	12719.520	0.0000	0.0000	0.0000
MH1-13	70.0950	63.6500	70.9454	18	38	7.2954	0.0000	4.3560	0.0000	0.0000	0.0000
JCT-14	69.3300	64.0100	71.0679	19	0	7.0579	0.0000	28425.616	0.0000	0.0000	0.0000
MH-23	68.5100	63.8800	70.8140	18	41	6.9340	0.0000	50070.607	0.0000	0.0000	0.0000
MH-16	67.7400	64.6400	71.4210	20	53	6.7810	0.0000	198438.11	0.0000	0.0000	0.0000
CI-7	67.1700	64.7000	71.4165	21	25	6.7165	0.0000	349290.91	0.0000	0.0000	0.0000
MH-24	68.1600	64.7200	70.7065	20	1	5.9865	0.0000	63809.069	0.0000	0.0000	0.0000
MH-25	68.0800	64.9100	70.6948	20	19	5.7848	0.0000	68325.236	0.0000	0.0000	0.0000

CI-12	67.6000	64.9900	70.6936	20	24	5.7036	0.0000	12719.520	0.0000	0.0000	0.0000
CI-8	67.3100	64.9800	71.5862	20	36	6.6062	0.0000	12719.520	0.0000	0.0000	0.0000
MH-19	67.6900	64.9500	71.5861	20	37	6.6361	0.0000	246040.59	0.0000	0.0000	0.0000
MH-20	70.6300	65.3100	71.5866	20	42	6.2766	0.0000	13013.563	0.0000	0.0000	0.0000
MH-21	70.3600	65.6300	71.5944	16	47	5.9644	0.0000	17182.291	0.0000	0.0000	0.0000
CI-11	67.1300	64.5500	70.7125	19	43	6.1625	0.0000	12719.520	0.0000	0.0000	0.0000
JCT-15	68.3800	64.3400	71.2219	20	0	6.8819	0.0000	85742.003	0.0000	0.0000	0.0000
MH-18	68.1800	64.7900	71.5845	20	37	6.7945	0.0000	150502.42	0.0000	0.0000	0.0000
CI-4.1	70.3700	63.8100	70.9460	18	38	7.1360	0.0000	8894.4099	0.0000	0.0000	0.0000
BRCKH01.0	70.0100	69.5800	69.6554	17	45	0.0754	0.3546	12.5660	0.0000	0.0000	0.0000
MHI-5	73.2000	61.9000	70.5397	16	15	8.6397	2.6603	12.5660	0.0000	0.0000	0.0000
CI-2B	67.8300	66.4600	71.3243	19	15	4.8643	0.0000	13873.257	0.0000	0.0000	0.0000
CI-2C	67.7600	66.7100	71.2727	20	8	4.5627	0.0000	78051.114	0.0000	0.0000	0.0000
MH-7S2	68.2400	62.7300	71.7120	18	38	8.9820	0.0000	161004.87	0.0000	0.0000	0.0000
MH-8	74.0400	62.9100	71.4376	18	33	8.5276	2.6024	12.5660	0.0000	0.0000	0.0000
JCT-9	67.8500	62.4800	70.8262	18	23	8.3462	0.0000	98061.749	0.0000	0.0000	0.0000
MHI-12	74.3100	63.2900	70.8607	18	26	7.5707	3.4493	12.5660	0.0000	0.0000	0.0000
CI-10	68.2600	64.1500	70.7701	18	52	6.6201	0.0000	12719.520	0.0000	0.0000	0.0000
MHI-12S	70.7000	63.4100	70.8607	18	26	7.4507	0.0000	5871.4616	0.0000	0.0000	0.0000
MH-11	75.5800	63.0800	70.8518	18	26	7.7718	4.7282	12.5660	0.0000	0.0000	0.0000
CI-5	70.0400	64.0700	71.0692	18	58	6.9992	0.0000	12719.520	0.0000	0.0000	0.0000
CI-6	68.4500	64.4000	71.2220	19	58	6.8220	0.0000	12719.520	0.0000	0.0000	0.0000
MH-18S2	67.9000	65.9170	71.7420	19	57	5.8250	0.0000	233097.67	0.0000	0.0000	0.0000
MH-24S	67.3700	66.1000	70.7076	20	4	4.6076	0.0000	140764.32	0.0000	0.0000	0.0000
CI-13	68.1000	65.3900	70.6899	20	42	5.2999	0.0000	66643.802	0.0000	0.0000	0.0000
CI-12A	67.9700	64.5900	70.6947	20	25	6.1047	0.0000	76257.601	0.0000	0.0000	0.0000
CI-13A	68.6400	65.4500	70.6906	20	42	5.2406	0.0000	38863.190	0.0000	0.0000	0.0000
BRCKH01.3	71.8000	70.0000	71.8245	18	8	1.8245	0.0000	5123.9879	0.0000	0.0000	0.0000
BRCKH01.2	71.8000	71.5200	71.4225	18	8	0.0000	0.3775	12.5660	0.0000	0.0000	0.0000
BRCKH00.1	70.0100	69.3000	69.2200	17	29	0.0000	0.7900	12.5660	0.0000	0.0000	0.0000
MH-13	71.7600	71.7200	73.5255	18	36	1.8055	0.0000	29223.580	0.0000	0.0000	0.0000
MH-9	71.5700	69.7600	73.4905	18	11	3.7305	0.0000	34122.912	0.0000	0.0000	0.0000
MH-10	71.1800	70.5800	73.3622	18	17	2.7822	0.0000	44327.847	0.0000	0.0000	0.0000
CI-9.1	70.9500	70.6100	73.3664	18	19	2.7564	0.0000	56027.222	0.0000	0.0000	0.0000
CI-10.1	70.5100	68.8100	73.2545	18	30	4.4445	0.0000	77782.819	0.0000	0.0000	0.0000
CI-11.1	69.9200	68.3104	73.1265	18	49	4.8161	0.0000	123466.10	0.0000	0.0000	0.0000
CI-12.1	69.6000	67.6100	73.0679	18	21	5.4579	0.0000	12719.520	0.0000	0.0000	0.0000
MHI-17	70.4000	67.6100	73.0679	18	20	5.4579	0.0000	72045.943	0.0000	0.0000	0.0000
CI-13.1	69.1700	67.1100	72.9295	18	6	5.8195	0.0000	20081.160	0.0000	0.0000	0.0000
MHI-16	70.9700	68.0000	73.1864	18	28	5.1864	0.0000	45872.159	0.0000	0.0000	0.0000
MHI-18	70.8500	66.9900	72.9643	18	9	5.9743	0.0000	41419.832	0.0000	0.0000	0.0000
CI-16	70.1700	68.0400	73.1864	18	30	5.1464	0.0000	12719.520	0.0000	0.0000	0.0000
JCT-11	70.3100	68.1100	73.2526	18	30	5.1426	0.0000	12.5660	0.0000	0.0000	0.0000
JCT-12	70.5300	67.7400	73.1385	18	30	5.3985	0.0000	67891.212	0.0000	0.0000	0.0000
MH-8.1	72.4100	69.8100	73.4921	18	11	3.6821	0.0000	14754.283	0.0000	0.0000	0.0000
MHI-6	72.2100	70.3600	74.1343	17	2	3.7743	0.0000	34252.696	0.0000	0.0000	0.0000
CI-8.1	71.8100	71.8100	73.8121	17	52	2.0021	0.0000	19587.974	0.0000	0.0000	0.0000
JCT-7	72.3100	71.1222	73.8108	17	52	2.6886	0.0000	22426.826	0.0000	0.0000	0.0000
CI-7.1	73.8600	72.0500	74.6595	16	55	2.6095	0.0000	11121.646	0.0000	0.0000	0.0000
MHI-3.1	74.1000	72.0060	74.6513	16	55	2.6453	0.0000	8677.2533	0.0000	0.0000	0.0000
CI-4.2	74.3400	71.6300	76.2044	16	47	4.5744	0.0000	12719.520	0.0000	0.0000	0.0000
MHI-2.2	77.2400	71.5000	75.8222	16	44	4.3222	1.4178	12.5660	0.0000	0.0000	0.0000
CI-3.2	75.5700	72.8300	76.2269	16	51	3.3969	0.0000	9644.2917	0.0000	0.0000	0.0000
CI-1.2	76.3000	72.9500	77.4660	16	58	4.5160	0.0000	16046.398	0.0000	0.0000	0.0000
CI-2.2	74.8300	72.3100	77.3614	16	51	5.0514	0.0000	12719.520	0.0000	0.0000	0.0000
CI-5.1	73.6400	71.3100	75.0903	16	58	3.7803	0.0000	12719.520	0.0000	0.0000	0.0000
MHI-4.2	74.4400	71.2400	74.9311	16	57	3.6911	0.0000	8170.5373	0.0000	0.0000	0.0000
MHI-1.2	76.2500	71.7200	76.9957	16	46	5.2757	0.0000	10539.765	0.0000	0.0000	0.0000
MHI-5.1	74.0000	69.8100	74.4715	16	55	4.6615	0.0000	8012.2250	0.0000	0.0000	0.0000
CI-6.1	71.3800	69.8100	74.7582	16	51	4.9482	0.0000	20081.160	0.0000	0.0000	0.0000
CI-14	71.2500	68.6400	73.5268	18	36	4.8868	0.0000	20081.160	0.0000	0.0000	0.0000
CI-14A	71.8100	71.8100	73.5272	18	36	1.7172	0.0000	18062.400	0.0000	0.0000	0.0000
CI-15A	71.2700	69.8100	73.5194	18	35	3.7094	0.0000	18447.892	0.0000	0.0000	0.0000
MH-14	71.5000	69.7030	73.5191	18	36	3.8161	0.0000	37656.135	0.0000	0.0000	0.0000
W43RD	72.5700	68.7380	73.8206	18	9	5.0826	0.0000	60529.932	0.0000	0.0000	0.0000
CI-15	70.5000	68.8100	73.3849	18	42	4.5749	0.0000	89511.750	0.0000	0.0000	0.0000
JCT-15.1	70.9200	68.7100	73.3830	18	41	4.6730	0.0000	58699.572	0.0000	0.0000	0.0000
CI-131	70.3100	70.3100	72.9210	18	4	2.6110	0.0000	68061.674	0.0000	0.0000	0.0000
E11504.4	75.1600	74.7200	72.9208	18	3	0.0000	2.2392	12.5660	0.0000	0.0000	0.0000
COH1	68.1900	65.8400	71.1021	18	2	5.2621	0.0000	12.5660	0.0000	0.0000	0.0000
E11504.5	75.1600	74.4100	72.2704	18	10	0.0000	2.8896	12.5660	0.0000	0.0000	0.0000
COH01	68.0400	66.1600	71.8690	18	31	5.7090	0.0000	202554.00	0.0000	0.0000	0.0000
E11504.3	75.2300	74.8700	73.1258	17	52	0.0000	2.1042	12.5660	0.0000	0.0000	0.0000
E11504.7	72.6100	71.5700	71.9578	18	10	0.3878	0.6522	12.5660	0.0000	0.0000	0.0000
E11504.8	73.2900	72.9200	71.9242	18	11	0.0000	1.3658	12.5660	0.0000	0.0000	0.0000
BRCKH01.1	70.5000	69.6800	70.9656	18	5	1.2856	0.0000	7964.5127	0.0000	0.0000	0.0000
J-CI-2	69.0700	65.2300	70.2255	17	42	4.9955	0.0000	15877.303	0.0000	0.0000	0.0000
J-COH1	70.3900	65.1600	70.1534	17	41	4.9934	0.2366	12.5660	0.0000	0.0000	0.0000
E5150100	70.0000	60.9300	70.9400	16	59	10.0100	0.0000	12.5660	0.0000	0.0000	0.0000
MH-14s	72.5000	68.3900	73.5772	18	28	5.1872	0.0000	14681.707	0.0000	0.0000	0.0000
MH-18S	68.3500	66.4200	72.6698	18	13	6.2498	0.0000	651657.60	0.0000	0.0000	0.0000
MH-7S	71.6300	63.1100	72.7356	18	39	9.6256	0.0000	2388722.4	0.0000	0.0000	0.0000

Table E10 - CONDUIT SUMMARY STATISTICS
Note: The peak flow may be less than the design flow and the conduit may still surcharge because of the downstream boundary conditions.
* denotes an open conduit that has been overtopped this is a potential source of severe errors

Conduit Name	Design Flow (cfs)	Conduit Design Velocity (ft/s)	Maximum Vertical Depth (in)	Maximum Computed Flow (cfs)	Time of Occurence Hr.	Time of Occurence Min.	Maximum Computed Velocity (ft/s)	Time of Occurence Hr.	Time of Occurence Min.	Ratio of Max. to Design Flow	Maximum Water Elev at Pipe Ends Upstream (ft)	Maximum Water Elev at Pipe Ends Dwnstrm (ft)	Ratio d/D US	Ratio d/D DS
CI1-MH1	4.0683	2.3022	18.0000	8.3232	16	3	4.6716	16	3	2.0459	70.3497	70.3443	3.553	3.590
MH1-2	12.7972	4.0735	24.0000	23.4045	15	57	7.4786	15	53	1.8289	70.3443	70.2598	2.942	3.220
MH2-CI2	24.2661	4.9434	30.0000	50.9870	16	16	10.3383	16	16	2.1012	70.2598	70.2381	2.776	2.823
E11504.6	114.9217	16.2581	36.0000	67.7374	16	16	11.5950	15	45	0.5894	70.2381	70.2255	2.353	2.665
CI3A-3	3.2045	1.8134	18.0000	4.3744	21	56	2.4430	21	56	1.3651	69.5353	69.5640	3.744	3.836
CI3-MH3	3.3218	1.8797	18.0000	-6.6215	17	12	-3.6843	17	12	-1.9934	69.5640	69.6069	3.836	3.891
MH3-01.0	10.7968	3.4367	24.0000	17.1427	16	38	5.3868	16	38	1.5878	69.6069	69.6554	3.443	3.673
CI4-MH4	3.3218	1.8797	18.0000	7.2840	16	0	4.0605	16	0	2.1928	69.6270	69.6225	4.071	4.095
Link191	8.1566	2.5963	24.0000	10.3904	15	28	3.2859	15	28	1.2739	69.6225	69.6069	3.321	3.443
CI2-MHI2	6.8209	2.1712	24.0000	14.9057	23	9	4.6423	23	9	2.1853	69.7078	69.7066	5.334	5.353
MHI2-I1	14.2088	2.8946	30.0000	-26.1278	17	13	-5.2064	17	13	-1.8389	69.7066	69.8793	4.483	4.648
MHI4-J3	14.9773	3.0512	30.0000	37.6038	16	15	7.5145	16	15	2.5107	70.3136	70.3118	4.525	4.541
MHI5-4	10.1170	3.2204	24.0000	19.2767	16	15	5.9736	16	15	1.9054	70.5397	70.3136	5.320	5.407
MH-21-2	8.8309	2.8110	24.0000	9.4300	15	50	2.9572	15	50	1.0678	71.5944	71.5866	3.982	4.138
MH-20-1	13.7576	2.8027	30.0000	20.1618	16	3	4.0528	16	3	1.4655	71.5866	71.5861	3.511	3.654
MH-19-1	21.0919	2.9839	36.0000	71.4297	25	9	10.0279	25	9	3.3866	71.5861	71.5845	3.212	3.265
MH-18-1	73.1781	3.7269	60.0000	89.5111	24	42	4.5299	24	42	1.2232	71.5845	71.4210	2.359	2.356
MH16-J15	82.3592	4.1945	60.0000	155.1520	24	58	7.8617	24	58	1.8838	71.4210	71.2219	2.356	2.376
J15-J14	86.3790	4.3992	60.0000	154.7912	24	47	7.8481	24	58	1.7920	71.2219	71.0679	2.376	2.412
J14-MH13	90.2200	4.5949	60.0000	154.8332	24	47	7.8527	24	47	1.7162	71.0679	70.9454	2.412	2.459
MHI13-12	106.1922	4.4697	66.0000	154.8610	24	47	6.4985	24	47	1.4583	70.9454	70.8607	2.326	2.376
MH12-11	212.3829	5.5187	84.0000	210.1521	25	3	5.4122	24	47	0.9895	70.8607	70.8518	2.082	2.110
MH11-J10	213.3532	5.5439	84.0000	208.7315	24	47	5.4126	24	47	0.9783	70.8518	70.8395	2.110	2.150
J10-J9	212.5635	5.5234	84.0000	208.9030	25	1	5.4130	24	47	0.9828	70.8395	70.8262	2.150	2.192
J9-MH6	213.7941	5.5553	84.0000	210.6641	22	30	5.4419	22	30	0.9854	70.8262	70.8137	2.192	2.231
MH6-J3	449.9012	7.0720	108.0000	492.5756	21	31	7.7001	21	31	1.0949	70.8137	70.3118	1.957	1.984
J3-MH1	467.1999	7.3439	108.0000	498.5381	16	30	7.7943	16	30	1.0671	70.3118	69.8793	1.984	2.013
MH1-01.0	468.2416	7.3603	108.0000	624.0159	21	23	9.7546	21	23	1.3327	69.8793	69.6554	2.013	2.038
MH8-7	10.1170	3.2204	24.0000	6.9571	16	15	2.1623	16	15	0.6877	71.4376	71.4375	5.264	5.424
MH7-6	263.0602	6.8355	84.0000	372.3516	22	8	9.6081	22	8	1.4155	71.4375	70.8137	2.264	2.231

CI8-MH19	6.9267	2.2048	24.0000	51.3778	25	14	18.6463	25	17	7.4174	71.5862	71.5861	4.303	4.318	
CI7-16	9.7958	3.1181	24.0000	86.5902	25	19	27.2089	25	19	8.8395	71.4165	71.4210	4.358	4.391	
CI6-J1	9.7958	3.1181	24.0000	14.3514	16	16	4.4843	16	16	1.4651	71.2220	71.2219	4.411	4.441	
CI5-J1	9.7958	3.1181	24.0000	11.4260	16	9	3.5693	16	9	1.1664	71.0692	71.0679	4.500	4.529	
CI4-MH1	12.2016	3.8839	24.0000	13.0699	16	15	4.0768	16	15	1.0712	70.9460	70.9454	4.568	4.648	
CI3-J1	12.6463	4.0254	24.0000	19.7005	16	0	6.1431	16	0	1.5578	70.8396	70.8395	4.975	5.025	
CI1-MHI1	12.5829	4.0053	24.0000	-24.6241	20	15	-7.6302	20	15	-1.9570	69.8799	69.8793	5.560	5.609	
CI2C-CI2	3.4814	1.9701	18.0000	10.4311	24	18	5.8459	24	18	2.9963	71.2727	71.3243	4.042	4.243	
CI2B-MH7	5.9830	3.3857	18.0000	12.4496	22	34	6.9391	22	34	2.0808	71.3243	71.4375	4.243	4.585	
CI13I-1	8.7074	2.7716	24.0000	27.2891	25	14	8.5576	25	14	3.1340	70.6899	70.6936	3.650	3.852	
CI12-MH2	13.8663	2.8248	30.0000	43.1460	25	4	8.7111	25	4	3.1116	70.6936	70.6948	3.281	3.314	
MH25-2	14.1346	2.8795	30.0000	48.2744	24	58	9.7490	24	58	3.4153	70.6948	70.7065	3.314	3.395	
MH24-CI1	31.8156	3.3068	42.0000	50.0392	24	54	5.1740	24	54	1.5728	70.7065	70.7125	2.710	2.761	
CI11-1	31.8156	3.3068	42.0000	54.0643	24	48	5.5873	24	48	1.6993	70.7125	70.7701	2.761	2.891	
CI10-MH2	37.9267	3.9420	42.0000	53.9363	24	48	5.5816	24	48	1.4221	70.7701	70.8140	2.891	2.981	
MH23-CI9	45.4240	3.6147	48.0000	53.9823	24	48	4.2810	24	48	1.1884	70.8140	70.8550	2.733	2.821	
CI9-MHI2	49.7595	3.9597	48.0000	55.7069	22	32	4.3912	22	32	1.1195	70.8550	70.8572	2.821	2.837	
MH22-12	65.2211	4.1008	54.0000	55.7350	22	32	3.4750	22	32	0.8546	70.8572	70.8607	2.633	2.682	
MH18s-18	45.6990	3.6366	48.0000	96.1450	18	9	7.5701	18	9	2.1039	71.7420	71.5845	2.726	2.699	
MH24s-24	36.6077	11.6526	24.0000	-16.8922	16	24	-5.2946	16	24	-0.4614	70.7076	70.7065	3.304	3.993	
MH12s-12	29.3197	4.1479	36.0000	28.2296	16	0	3.9430	16	0	0.9628	70.8607	70.8607	3.484	3.524	
MH7S-7	241.4559	6.2741	84.0000	372.5493	17	3	9.6068	17	3	1.5429	71.7120	71.4375	2.283	2.264	
CI12A-12	9.2356	2.9398	24.0000	22.3396	25	12	7.0340	25	12	2.4189	70.6947	70.6936	4.052	4.102	
CI13A-13	7.1538	2.2771	24.0000	17.4675	25	24	5.5046	25	24	2.4417	70.6906	70.6899	3.620	3.650	
E115-01.3	10057.17	3.9195	221.0400	6290.242	18	8	6.6702	23	7	0.6254	71.8245	71.4225	1.099	1.088	*
E115-03.1	8404.522	4.3815	220.9200	8458.746	18	21	8.3334	23	7	1.0065	71.4225	70.9656	1.088	1.070	*
E115-01.1	11089.12	6.6997	220.0800	8927.542	18	39	11.4707	21	21	0.8051	69.6554	69.2200	1.004	0.996	*
CI1-2	9.0490	2.8804	24.0000	12.8333	18	10	4.0428	18	10	1.4182	77.4660	77.3614	3.258	3.526	
CI2-MH1	10.2314	3.2567	24.0000	27.1099	17	36	8.4970	17	36	2.6497	77.3614	76.9957	3.776	3.638	
MH1-2.1	14.1830	2.8893	30.0000	37.3492	15	42	7.5600	15	42	2.6334	76.9957	75.8222	3.110	2.729	
CI5-MH4	9.0232	2.8722	24.0000	15.2437	15	47	5.4533	15	38	1.6894	75.0903	74.9311	2.890	2.846	
MH4-5	15.3311	3.1232	30.0000	21.1319	15	47	4.3794	15	31	1.3784	74.9311	74.4715	2.896	2.865	
MH5-6	34.8522	3.6225	42.0000	44.4193	16	34	4.5778	16	34	1.2745	74.4715	74.1343	2.372	2.344	
CI6-MH5	10.8521	2.2108	30.0000	16.0279	16	44	3.2248	16	44	1.4769	74.7582	74.4715	2.979	2.921	
CI3-4	12.3908	3.9441	24.0000	11.9024	15	43	3.7560	15	43	0.9606	76.2269	76.2044	2.698	3.287	
CI4-MH2	12.2966	3.9141	24.0000	25.4055	15	43	8.0173	15	43	2.0661	76.2044	75.8222	3.287	3.161	
MH2-3	51.7913	4.1214	48.0000	72.1032	16	30	5.6999	16	30	1.3922	75.8222	74.6513	2.081	1.950	
MH3-6	55.2531	4.3969	48.0000	79.0582	16	3	6.2598	16	3	1.4308	74.6513	74.1343	2.000	1.944	
MH6-J7	90.2200	4.5949	60.0000	128.9078	16	34	6.5270	16	34	1.4288	74.1343	73.8108	1.955	1.939	
J7-MH9	90.1408	4.5908	60.0000	127.8913	16	36	6.4776	16	36	1.4188	73.8108	73.4905	1.939	1.966	
MH9-10	93.9039	4.7825	60.0000	126.8577	16	21	6.4303	16	21	1.3509	73.4905	73.3622	1.966	1.992	
MH10-J11	97.2477	4.9528	60.0000	130.3015	16	20	6.6068	16	20	1.3399	73.3622	73.2526	1.992	2.029	
J11-J12	100.5975	5.1231	60.0000	131.2728	15	46	6.6672	15	46	1.3049	73.2526	73.1385	2.029	2.080	
CI14-M13	13.1925	2.6876	30.0000	24.7031	15	56	4.9871	15	56	1.8725	73.5268	73.5255	2.955	3.002	
MH13-14	12.8290	2.6135	30.0000	26.2359	15	53	5.3020	15	53	2.0450	73.5255	73.5191	3.002	3.072	
MH14-J15	106.1922	4.4697	66.0000	168.9985	16	28	7.0821	16	28	1.5914	73.5191	73.3830	1.942	1.953	
J15-16	106.1922	4.4697	66.0000	170.2142	16	20	7.1369	16	20	1.6029	73.3830	73.1864	1.953	1.972	
CI7-MH3	7.1538	2.2771	24.0000	10.0243	18	11	3.1722	18	11	1.4013	74.6595	74.6513	2.305	2.323	
CI8-J7	33.1661	10.5571	24.0000	6.8520	16	0	6.5865	15	37	0.2066	73.8121	73.8108	2.001	2.344	
MH8-9	6.8209	2.1712	24.0000	21.5214	20	45	6.7954	20	45	3.1552	73.4921	73.4905	2.841	2.865	
CI9-MH10	6.9267	2.2048	24.0000	14.2349	20	50	4.5166	20	50	2.0551	73.3664	73.3622	2.378	2.391	
CI10-J11	33.5544	10.6807	24.0000	23.3418	20	58	7.3767	20	58	0.6956	73.2545	73.2526	3.222	3.573	
CI11-J12	30.2032	9.6140	24.0000	40.2867	21	2	12.7139	21	2	1.3339	73.1265	73.1385	3.408	3.699	
CI14A-13	4.6977	2.6583	18.0000	-3.4479	20	47	2.3648	20	47	-0.7340	73.5272	73.5255	2.145	2.204	
CI15A-14	4.7021	2.6608	18.0000	-3.1928	17	44	-1.7797	17	44	-0.6790	73.5194	73.5191	3.473	3.544	
CI15-J15	13.0610	4.1575	24.0000	27.6279	20	50	8.7146	20	50	2.1153	73.3849	73.3830	3.287	3.336	
CI-16-to-M	6.8209	2.1712	24.0000	17.6120	20	57	5.5551	20	57	2.5821	73.1864	73.1864	3.573	3.593	
CI12-MH17	6.8209	2.1712	24.0000	19.7013	21	1	6.2133	21	1	2.8884	73.0679	73.0679	3.729	3.749	
CI-13-to-C	5.3562	3.0310	18.0000	-19.7613	17	18	-10.9466	17	18	-3.6894	72.9295	72.9210	4.880	4.926	
MH18o	222.4320	6.7032	78.0000	343.6906	16	18	10.3346	16	18	1.5451	72.9643	72.9210	1.919	1.940	
MH17-18	221.5475	6.6765	78.0000	343.6955	16	18	10.3301	16	18	1.5513	73.0679	72.9643	1.881	1.919	
MH16-17	117.4566	4.9438	66.0000	191.8437	16	18	8.0483	16	18	1.6333	73.1864	73.0679	1.972	1.992	
J12-MH17	97.8408	4.9830	60.0000	135.2723	15	47	6.8717	15	47	1.3826	73.1385	73.0679	2.080	2.136	
E11504_4	4654.511	10.1185	120.0000	350.2087	16	17	1.8714	30	2	0.0752	72.9210	72.9208	1.261	1.265	*
W43-14	116.4735	5.9319	60.0000	156.6342	17	2	7.9310	17	2	1.3448	73.8206	73.5772	2.017	2.037	
E11504_5	64.4290	5.1271	48.0000	129.3647	20	46	10.2318	20	45	2.0079	71.1021	70.1536	2.316	2.248	
L-COH1	64.2392	5.1120	48.0000	129.3576	20	46	10.2324	20	46	2.0137	71.8690	71.1021	2.427	2.316	
11504.3	14803.09	4.6888	196.6800	2217.639	17	30	6.3394	13	2	0.1498	73.1258	72.9208	0.894	0.890	
11504.4	12286.47	3.8917	196.6800	2189.047	17	41	7.4636	16	0	0.1782	72.9208	72.2704	0.890	0.869	
11504.5	2253.036	2.8600	170.7600	2575.694	17	49	6.6023	13	2	1.1432	72.2704	72.2143	1.001	0.998	*
11504.6	8964.048	5.8766	170.7600	2182.735	18	2	6.7112	12	41	0.2435	72.2143	71.9578	0.998	1.027	*
11504.7	9411.198	6.1698	170.7600	2146.033	18	3	6.8204	11	47	0.2280	71.9578	71.9242	1.027	1.033	*
11504.8	22225.70	6.6003	188.2800	2295.487	20	41	6.7831	11	42	0.1033	71.9242	71.4225	0.937	0.994	
E115-02	2213.822	1.3375	220.0800	8477.537	18	23	8.7907	23	6	3.8294	70.9656	69.6554	1.074	1.004	*
Link204	43.8140	8.9257	30.0000	67.7336	16	16	13.7598	16	16	1.5459	70.2255	70.1536	3.198	3.525	
Link205	86.8651	5.4617	54.0000	193.4195	16	16	12.1154	16	16	2.2267	70.1534	70.0000	3.014	3.016	
MH14s-MH14	82.7741	4.2156	60.0000	156.0326	17	2	7.9031	17	2	1.8850	73.5772	73.5191	2.037	2.036	
Link207	74.0819	5.8952	48.0000	115.6550	17	15	9.1167	17	13	1.5612	72.6698	71.7420	2.562	2.456	
Link208	206.1274	5.3561	84.0000	465.8695	22	3	12.0095	22	3	2.2601	72.7356	71.7120	2.375	2.283	
FREE # 1	Undefnd	Undefnd	Undefn	8927.542	18	39									
FREE # 2	Undefnd	Undefnd	Undefn	193.4209	16	16									

Table E14 - Natural Channel Overbank Flow Information

Conduit Name	Maximum Velocity: Left	Center	Right	Maximum Flow: Left	Center	Right	Maximum Area: Left	Center	Right	Max. Storage Volume: Left	Center	Right	Maximum Depth
E115-01.3	0.3531	7.4133	0.5006	602.1573	5661.7392	26.3453	1705.4200	763.7268	52.6298	223580.56	194521.23	14925.806	18.3897
E115-03.1	0.4604	10.6931	0.6792	410.0981	8012.1702	36.4781	890.6483	749.2836	53.7083	527441.91	113141.83	10532.204	18.1742
E115-01.1	0.4304	11.2521	0.6374	346.5055	8527.4754	53.5616	805.0816	757.8537	84.0321	78656.477	86546.892	11075.432	18.3320
11504.3	0.4395	4.9455	0.2542	153.3662	1948.8520	115.4207	348.9306	394.0631	454.0654	70832.913	78812.616	90813.090	14.6397
11504.4	0.4339	4.9720	0.2525	145.6389	1938.4359	104.9720	335.6621	389.8704	415.8113	202404.23	233922.27	248239.37	14.5687
11504.5	0.4879	5.2395	0.2946	100.2884	2441.5652	33.8405	205.5623	465.9916	114.8669	8736.3957	19804.645	4881.8429	14.2253
11504.6	0.3486	4.4085	0.2449	176.5521	1864.8616	141.3218	506.5033	423.0139	577.0230	220835.44	181049.95	242926.67	14.2069
11504.7	0.3425	4.3649	0.2404	170.8620	1839.9750	135.1961	498.9006	421.5424	562.4338	31804.916	26873.329	35855.154	14.1777
11504.8	0.1328	3.9505	0.2314	91.6512	2029.4438	174.3923	690.0757	513.7125	753.6398	536878.87	399668.34	586331.74	14.7913
E115-02	0.4101	10.6737	0.6052	332.6334	8093.8355	51.0684	811.0500	758.2959	84.3776	250208.91	232796.83	27017.699	18.3386

Table E14a - Natural Channel Encroachment Information

Conduit Name	Existing Conveyance Condition: Left Bank	Centre Channel	Right Bank	Total	Left Station	Right Station	Encroachment Conveyance Condition: Left Bank	Centre Channel	Right Bank	Total	Left Station	Right Station	% Volume Reduction: Left	Right	Depth Incr.	Encroachment Data: Method
E115-01.3	36722.8	345283.	1606.7	383613.	4319.2	5058.5	36722.8	345283.	1606.7	383613.	4319.2	5058.5	0.0000	0.0000	0.0000	None
E115-03.1	17119.6	334469.	1522.8	353111.	4231.8	5062.5	17119.6	334469.	1522.8	353111.	4231.8	5062.5	0.0000	0.0000	0.0000	None
E115-01.1	13820.1	340113.	2136.3	356069.	4060.4	5085.6	13820.1	340113.	2136.3	356069.	4060.4	5085.6	0.0000	0.0000	0.0000	None

11504.3	9794.4	124459.	7371.1	141624.	4968.1	6128.7	9794.4	124459.	7371.1	141624.	4968.1	6128.7	0.0000	0.0000	0.0000	None
11504.4	9205.0	122517.	6634.7	138357.	4968.3	6122.6	9205.0	122517.	6634.7	138357.	4968.3	6122.6	0.0000	0.0000	0.0000	None
11504.5	6051.0	147313.	2041.8	155406.	4858.0	5148.9	6051.0	147313.	2041.8	155406.	4858.0	5148.9	0.0000	0.0000	0.0000	None
11504.6	14578.2	153985.	11669.2	180232.	4711.9	5528.2	14578.2	153985.	11669.2	180232.	4711.9	5528.2	0.0000	0.0000	0.0000	None
11504.7	14216.4	153093.	11248.8	178558.	4711.9	5528.2	14216.4	153093.	11248.8	178558.	4711.9	5528.2	0.0000	0.0000	0.0000	None
11504.8	8261.9	182943.	15720.5	206925.	4560.4	5910.6	8261.9	182943.	15720.5	206925.	4560.4	5910.6	0.0000	0.0000	0.0000	None
E115-02	13991.2	340443.	2148.0	356583.	4060.4	5085.7	13991.2	340443.	2148.0	356583.	4060.4	5085.7	0.0000	0.0000	0.0000	None

Table E14b - Floodplain Mapping

Conduit Name	Upstream WS Elev.	Downstream WS Elev.	Channel Length	Center Station	<----- Left Offsets Natural	Encroach	------> Bank	<----- Right Offsets Natural	Encroach	------> Bank	<- Channel Widths-> Total	Encroach.
E115-01.3	71.8245	71.4225	254.7000	5001.8000	682.5895	682.5895	34.1000	56.7001	56.7001	32.9000	739.2896	739.2896
E115-03.1	71.4225	70.9656	151.0000	5001.8000	770.0088	770.0088	34.1000	60.7001	60.7001	32.9000	830.7089	830.7089
E115-01.1	69.6554	69.2200	114.2000	5000.1000	939.7001	939.7001	34.0000	85.4718	85.4718	33.1000	1025.1719	1025.1719
11504.3	73.1258	72.9208	200.0000	5003.3000	35.2082	35.2082	35.5000	1125.4000	1125.4000	24.0000	1160.6082	1160.6082
11504.4	72.9208	72.2704	600.0000	5003.3000	35.0019	35.0019	35.5000	1119.2719	1119.2719	24.0000	1154.2739	1154.2739
11504.5	72.2704	72.2143	42.5000	5000.5000	142.5001	142.5001	41.6000	148.4001	148.4001	27.6000	290.9002	290.9002
11504.6	72.2143	71.9578	428.0000	5000.5000	288.6001	288.6001	28.2000	527.7001	527.7001	22.2000	816.3002	816.3002
11504.7	71.9578	71.9242	63.7500	5000.5000	288.6001	288.6001	28.2000	527.7001	527.7001	22.2000	816.3002	816.3002
11504.8	71.9242	71.4225	778.0000	5000.3000	439.8896	439.8896	34.4000	910.3001	910.3001	29.3000	1350.1896	1350.1896
E115-02	70.9656	69.6554	307.0000	5000.1000	939.7001	939.7001	34.0000	85.5774	85.5774	33.1000	1025.2775	1025.2775

Table E15 - SPREADSHEET INFO LIST

Conduit Flow and Junction Depth Information for use in spreadsheets. The maximum values in this table are the true maximum values because they sample every time step. The values in the review results may only be the maximum of a subset of all the time steps in the run.

Note: These flows are only the flows in a single barrel.

Conduit Name	Maximum Flow (cfs)	Total Flow (ft^3)	Maximum Velocity (ft/s)	Maximum Volume (ft^3)	##	Junction Name	Invert Elevation (ft)	Maximum Elevation (ft)
CI1-MH1	8.3232	48539.9446	4.6716	74.1014	##	MHI-2	63.3200	70.2598
MH1-2	23.4045	208511.2524	7.4786	651.5538	##	MHI-1	63.8200	70.3443
MH2-CI2	50.9870	365312.6042	10.3383	205.8378	##	CI-3A	63.9200	69.5353
E11504_6	67.7374	463564.0823	11.5950	232.7414	##	MHI-4	62.9800	69.6225
CI3A-3	4.3744	16866.5534	2.4430	218.9702	##	CI-3	63.8100	69.5640
CI3-MH3	-6.6215	28927.7040	-3.6843	74.1016	##	MHI-3	62.7200	69.6069
MH3-01.0	17.1427	238596.7883	5.3868	588.7844	##	CI-1	65.0200	70.3497
CI4-MH4	7.2840	50042.9698	4.0605	74.1016	##	CI-2	63.1800	70.2381
Link191	10.3904	129427.3235	3.2859	658.6788	##	E11504.6	58.0100	72.2143
CI2-MHI2	14.9057	71478.6150	4.6423	144.9082	##	CI-4	63.5200	69.6270
MHI2-I1	-26.1278	146507.6123	-5.2064	1029.1862	##	MHI-4.1	59.0000	70.3136
MHI4-J3	37.6038	180647.6877	7.5145	154.3784	##	CI-1.1	58.7600	69.8799
MHI5-4	19.2767	92538.3027	5.9736	654.6290	##	MHI-1.1	51.7600	69.8793
MH-21-2	9.4300	74523.0629	2.9572	690.8605	##	MHI-2.1	58.5000	69.7066
MH-20-1	20.1618	144527.1328	4.0528	1646.7013	##	CI-2.1	59.0400	69.7078
MH-19-1	71.4297	218144.7163	10.0279	1185.6256	##	JCT-3	52.4600	70.3118
MH-18-1	89.5111	2835641.854	4.5299	3910.9186	##	MH-7	55.5900	71.4375
MH16-J15	155.1520	2908257.496	7.8617	6175.1348	##	MH-6	53.2000	70.8137
J15-J14	154.7912	3006935.925	7.8481	6175.1190	##	JCT-10	55.7900	70.8395
J14-MH13	154.8332	3157799.372	7.8527	6175.1320	##	CI-3.1	60.8900	70.8396
MHI13-12	154.8610	3287460.637	6.4985	8966.2985	##	MHI-22	59.0100	70.8572
MH12-11	210.1521	4158399.581	5.4122	7665.3971	##	CI-9	59.5700	70.8550
MH11-J10	208.7315	4222358.380	5.4126	10489.4951	##	MHI-13	58.1500	70.9454
J10-J9	208.9030	4303366.913	5.4130	11296.3840	##	JCT-14	59.0100	71.0679
J9-MH6	210.6641	4331636.976	5.4419	10086.0564	##	MH-23	59.8800	70.8140
MH6-J3	492.5756	16337821.80	7.7001	38014.1426	##	MH-16	59.6400	71.4210
J3-MH1	498.5381	16540104.47	7.7943	33345.7376	##	CI-7	62.7000	71.4165
MH1-01.0	624.0159	16805413.48	9.7546	21341.2744	##	MH-24	61.2200	70.7065
MH8-7	6.9571	33500.7777	2.1623	526.5483	##	MH-25	62.4100	70.6948
MH7-6	372.3516	11988865.67	9.6081	9279.1711	##	CI-12	62.4900	70.6936
CI8-MH19	51.3778	73011.0115	18.6463	105.3890	##	CI-8	62.9800	71.5862
CI7-16	86.5902	51283.0050	27.2089	105.3864	##	MH-19	61.9500	71.5861
CI6-J1	14.3514	98149.2902	4.4843	105.3881	##	MH-20	62.8100	71.5866
CI5-J1	11.4260	93668.5584	3.5693	105.3877	##	MH-21	63.6300	71.5944
CI4-MH1	13.0699	68240.4771	4.0768	181.1362	##	CI-11	61.0500	70.7125

CI3-J1	19.7005	81407.5241	6.1431	105.3887	##	JCT-15	59.3400	71.2219
CI1-MHI1	-24.6241	46811.2470	-7.6302	105.3889	##	MH-18	59.7900	71.5845
CI2C-CI2	10.4311	80657.7829	5.8459	421.0123	##	CI-4.1	61.8100	70.9460
CI2B-MH7	12.4496	78812.1627	6.9391	226.3511	##	BRCKH01.0	51.2400	69.6554
CI13I-1	27.2891	149375.5403	8.5576	885.5541	##	MHI-5	59.9000	70.5397
CI12-MH2	43.1460	187756.7023	8.7111	360.2158	##	CI-2B	64.9600	71.3243
MH25-2	48.2744	190121.7951	9.7490	823.3506	##	CI-2C	65.2100	71.2727
MH24-CI1	50.0392	274799.6283	5.1740	1714.6297	##	MH-7S2	55.7300	71.7120
CI11-1	54.0643	318692.5394	5.5873	4034.4175	##	MH-8	60.9100	71.4376
CI10-MH2	53.9363	335488.6504	5.5816	1916.3507	##	JCT-9	55.4800	70.8262
MH23-CI9	53.9823	333916.2261	4.2810	4083.8241	##	MHI-12	56.2900	70.8607
CI9-MHI2	55.7069	635176.0628	4.3912	658.6801	##	CI-10	60.6500	70.7701
MH22-12	55.7350	754360.7522	3.4750	3334.5741	##	MHI-12S	60.4100	70.8607
MH18s-18	96.1450	2616578.740	7.5701	650.7765	##	MH-11	56.0800	70.8518
MH24s-24	-16.8922	436.4376	-5.2946	168.7168	##	CI-5	62.0700	71.0692
MH12s-12	28.2296	116746.7798	3.9430	460.1688	##	CI-6	62.4000	71.2220
MH7S-7	372.5493	11878063.48	9.6068	3953.7345	##	MH-18S2	60.8400	71.7420
CI12A-12	22.3396	37468.7254	7.0340	197.6043	##	MH-24S	64.1000	70.7076
CI13A-13	17.4675	100505.7137	5.5046	197.6044	##	CI-13	63.3900	70.6899
E115-01.3	6290.2418	225811926.7	6.6702	433027.5901	##	CI-12A	62.5900	70.6947
E115-03.1	8458.7464	281311860.2	8.3334	651115.9375	##	CI-13A	63.4500	70.6906
E115-01.1	8927.5425	298382461.8	11.4707	176278.8016	##	BRCKH01.3	51.5800	71.8245
CI1-2	12.8333	53945.7592	4.0428	1297.2745	##	BRCKH01.2	51.3900	71.4225
CI2-MH1	27.1099	304795.3406	8.4970	144.9095	##	BRCKH00.1	50.9600	69.2200
MH1-2.1	37.3492	427161.9465	7.5600	946.8541	##	MH-13	66.0200	73.5255
CI5-MH4	15.2437	206263.6572	5.4533	144.8903	##	MH-9	63.6600	73.4905
MH4-5	21.1319	247515.9004	4.3794	1399.4488	##	MH-10	63.4000	73.3622
MH5-6	44.4193	471795.5923	4.5778	2017.2107	##	CI-9.1	68.6100	73.3664
CI6-MH5	16.0279	135054.1270	3.2248	1029.1891	##	CI-10.1	66.8100	73.2545
CI3-4	11.9024	24672.8478	3.7560	1274.9345	##	CI-11.1	65.7404	73.1265
CI4-MH2	25.4055	199078.2575	8.0173	144.9098	##	CI-12.1	65.5700	73.0679
MH2-3	72.1032	745737.2689	5.6999	6585.9998	##	MHI-17	60.8400	73.0679
MH3-6	79.0582	814901.3701	6.2598	2582.0305	##	CI-13.1	65.5320	72.9295
MH6-J7	128.9078	1373845.603	6.5270	4199.0932	##	MHI-16	62.3400	73.1864
J7-MH9	127.8913	1418769.715	6.4776	7821.8405	##	MHI-18	60.4900	72.9643
MH9-10	126.8577	1446753.937	6.4303	4116.7582	##	CI-16	66.0000	73.1864
MH10-J11	130.3015	1503418.814	6.6068	4281.4281	##	JCT-11	63.1100	73.2526
J11-J12	131.2728	1527848.683	6.6672	5104.7722	##	JCT-12	62.7400	73.1385
CI14-M13	24.7031	120588.9954	4.9871	596.9298	##	MH-8.1	67.8100	73.4921
MH13-14	26.2359	136576.4980	5.3020	946.8544	##	MHI-6	64.3600	74.1343
MH14-J15	168.9985	2706430.149	7.0821	4981.2767	##	CI-8.1	69.8100	73.8121
J15-16	170.2142	2752575.573	7.1369	7471.9060	##	JCT-7	64.1152	73.8108
CI7-MH3	10.0243	32280.5436	3.1722	144.9097	##	CI-7.1	70.0500	74.6595
CI8-J7	6.8520	45471.8051	6.5865	101.9565	##	MHI-3.1	66.6500	74.6513
MH8-9	21.5214	28444.7439	6.7954	181.1374	##	CI-4.2	69.6300	76.2044
CI9-MH10	14.2349	57057.2180	4.5166	105.3880	##	MHI-2.2	67.5000	75.8222
CI10-J11	23.3418	24582.2648	7.3767	102.1774	##	CI-3.2	70.8300	76.2269
CI11-J12	40.2867	22957.7994	12.7139	103.1151	##	CI-1.2	70.9500	77.4660
CI14A-13	-3.4479	-80.4480	2.3648	83.3642	##	CI-2.2	69.8100	77.3614
CI15A-14	-3.1928	85.2717	-1.7797	98.9257	##	CI-5.1	69.3100	75.0903
CI15-J15	27.6279	46673.1415	8.7146	98.8019	##	MHI-4.2	67.6900	74.9311
CI-16-to-M	17.6120	28859.6380	5.5551	144.9039	##	MHI-1.2	69.2200	76.9957
CI12-MH17	19.7013	20365.2495	6.2133	144.9090	##	MHI-5.1	66.1700	74.4715
CI-13-to-C	-19.7613	36881.4731	-10.9466	55.5760	##	CI-6.1	67.3100	74.7582
MH18o	343.6906	4569495.612	10.3346	3478.6593	##	CI-14	66.1400	73.5268
MH17-18	343.6955	4563254.159	10.3301	6818.1689	##	CI-14A	70.3100	73.5272
MH16-17	191.8437	2878840.270	8.0483	4682.3994	##	CI-15A	68.3100	73.5194
J12-MH17	135.2723	1551739.470	6.8717	5104.7786	##	MH-14	62.8400	73.5191
E11504_4	350.2087	4607470.790	1.8714	18400.0000	##	W43RD	63.7380	73.8206
W43-14	156.6342	2557628.583	7.9310	3581.5774	##	CI-15	66.8100	73.3849
E11504_5	129.3647	2912429.763	10.2318	4444.1370	##	JCT-15.1	62.6400	73.3830
L-COH1	129.3576	2915621.680	10.2324	2107.7802	##	CI-131	60.3100	72.9210
11504.3	2217.6389	50735946.42	6.3394	240458.6183	##	E11504.4	58.3300	72.9208
11504.4	2189.0467	55349896.97	7.4636	684565.8684	##	COH1	61.8400	71.1021

11504.5	2575.6941	55296990.44	6.6023	33422.8837	##	E11504.5	58.0200	72.2704
11504.6	2182.7355	55302763.88	6.7112	644812.0496	##	COH01	62.1600	71.8690
11504.7	2146.0332	55314753.95	6.8204	94533.3998	##	E11504.3	58.4800	73.1258
11504.8	2295.4873	55316350.37	6.7831	1.52288E+06	##	E11504.7	57.3400	71.9578
E115-02	8477.5372	281322215.7	8.7907	510023.4408	##	E11504.8	57.2300	71.9242
Link204	67.7336	464174.0151	13.7598	396.4697	##	BRCKH01.1	51.2700	70.9656
Link205	193.4195	3378377.221	12.1154	1367.1754	##	J-CI-2	62.2300	70.2255
MH14s-MH14	156.0326	2558879.273	7.9031	1018.8975	##	J-COH1	56.5900	70.1534
Link207	115.6550	2629703.503	9.1167	2491.2401	##	E5150100	56.4300	70.9400
Link208	465.8695	11882241.82	12.0095	14725.4016	##	MH-14s	63.3900	73.5772
FREE # 1	8927.5425	298380857.0	0.0000	0.0000	##	MH-18S	62.4200	72.6698
FREE # 2	193.4209	3378301.157	0.0000	0.0000	##	MH-7S	56.1100	72.7356

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| Table E15a - SPREADSHEET REACH LIST |
| Peak flow and Total Flow listed by Reach or those |
| conduits or diversions having the same |
| upstream and downstream nodes. |
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Upstream Node	Downstream Node	Maximum Flow (cfs)	Total Flow (ft^3)
CI-1	MHI-1	8.3232	48539.9446
MHI-1	MHI-2	23.4045	208511.252
MHI-2	CI-2	50.9870	365312.604
CI-2	J-CI-2	67.7374	463564.082
CI-3A	CI-3	4.3744	16866.5534
CI-3	MHI-3	-6.6215	28927.7040
MHI-3	BRCKH01.0	17.1427	238596.788
CI-4	MHI-4	7.2840	50042.9698
MHI-4	MHI-3	10.3904	129427.324
CI-2.1	MHI-2.1	14.9057	71478.6150
MHI-2.1	MHI-1.1	-26.1278	146507.612
MHI-4.1	JCT-3	37.6038	180647.688
MHI-5	MHI-4.1	19.2767	92538.3027
MH-21	MH-20	9.4300	74523.0629
MH-20	MH-19	20.1618	144527.133
MH-19	MH-18	71.4297	218144.716
MH-18	MH-16	89.5111	2835641.85
MH-16	JCT-15	155.1520	2908257.50
JCT-15	JCT-14	154.7912	3006935.93
JCT-14	MHI-13	154.8332	3157799.37
MHI-13	MHI-12	154.8610	3287460.64
MHI-12	MH-11	210.1521	4158399.58
MH-11	JCT-10	208.7315	4222358.38
JCT-10	JCT-9	208.9030	4303366.91
JCT-9	MH-6	210.6641	4331636.98
MH-6	JCT-3	492.5756	16337821.8
JCT-3	MHI-1.1	498.5381	16540104.5
MHI-1.1	BRCKH01.0	624.0159	16805413.5
MH-8	MH-7	6.9571	33500.7777
MH-7	MH-6	372.3516	11988865.7
CI-8	MH-19	51.3778	73011.0115
CI-7	MH-16	86.5902	51283.0050
CI-6	JCT-15	14.3514	98149.2902
CI-5	JCT-14	11.4260	93668.5584
CI-4.1	MHI-13	13.0699	68240.4771
CI-3.1	JCT-10	19.7005	81407.5241
CI-1.1	MHI-1.1	-24.6241	46811.2470
CI-2C	CI-2B	10.4311	80657.7829
CI-2B	MH-7	12.4496	78812.1627
CI-13	CI-12	27.2891	149375.540
CI-12	MH-25	43.1460	187756.702
MH-25	MH-24	48.2744	190121.795
MH-24	CI-11	50.0392	274799.628
CI-11	CI-10	54.0643	318692.539
CI-10	MH-23	53.9363	335488.650
MH-23	CI-9	53.9823	333916.226

CI-9	MHI-22	55.7069	635176.063
MHI-22	MHI-12	55.7350	754360.752
MH-18S2	MH-18	96.1450	2616578.74
MH-24S	MH-24	-16.8922	436.4376
MHI-12S	MHI-12	28.2296	116746.780
MH-7S2	MH-7	372.5493	11878063.5
CI-12A	CI-12	22.3396	37468.7254
CI-13A	CI-13	17.4675	100505.714
BRCKH01.3	BRCKH01.2	6290.2418	225811927.
BRCKH01.2	BRCKH01.1	8458.7464	281311860.
BRCKH01.0	BRCKH00.1	8927.5425	298382462.
CI-1.2	CI-2.2	12.8333	53945.7592
CI-2.2	MHI-1.2	27.1099	304795.341
MHI-1.2	MHI-2.2	37.3492	427161.947
CI-5.1	MHI-4.2	15.2437	206263.657
MHI-4.2	MHI-5.1	21.1319	247515.900
MHI-5.1	MHI-6	44.4193	471795.592
CI-6.1	MHI-5.1	16.0279	135054.127
CI-3.2	CI-4.2	11.9024	24672.8478
CI-4.2	MHI-2.2	25.4055	199078.257
MHI-2.2	MHI-3.1	72.1032	745737.269
MHI-3.1	MHI-6	79.0582	814901.370
MHI-6	JCT-7	128.9078	1373845.60
JCT-7	MH-9	127.8913	1418769.72
MH-9	MH-10	126.8577	1446753.94
MH-10	JCT-11	130.3015	1503418.81
JCT-11	JCT-12	131.2728	1527848.68
CI-14	MH-13	24.7031	120588.995
MH-13	MH-14	26.2359	136576.498
MH-14	JCT-15.1	168.9985	2706430.15
JCT-15.1	MHI-16	170.2142	2752575.57
CI-7.1	MHI-3.1	10.0243	32280.5436
CI-8.1	JCT-7	6.8520	45471.8051
MH-8.1	MH-9	21.5214	28444.7439
CI-9.1	MH-10	14.2349	57057.2180
CI-10.1	JCT-11	23.3418	24582.2648
CI-11.1	JCT-12	40.2867	22957.7994
CI-14A	MH-13	-3.4479	-80.4480
CI-15A	MH-14	-3.1928	85.2717
CI-15	JCT-15.1	27.6279	46673.1415
CI-16	MHI-16	17.6120	28859.6380
CI-12.1	MHI-17	19.7013	20365.2495
CI-13.1	CI-131	-19.7613	36881.4731
MHI-18	CI-131	343.6906	4569495.61
MHI-17	MHI-18	343.6955	4563254.16
MHI-16	MHI-17	191.8437	2878840.27
JCT-12	MHI-17	135.2723	1551739.47
CI-131	E11504.4	350.2087	4607470.79
W43RD	MH-14s	156.6342	2557628.58
COH1	J-COH1	129.3647	2912429.76
COH01	COH1	129.3576	2915621.68
E11504.3	E11504.4	2217.6389	50735946.4
E11504.4	E11504.5	2189.0467	55349897.0
E11504.5	E11504.6	2575.6941	55296990.4
E11504.6	E11504.7	2182.7355	55302763.9
E11504.7	E11504.8	2146.0332	55314754.0
E11504.8	BRCKH01.2	2295.4873	55316350.4
BRCKH01.1	BRCKH01.0	8477.5372	281322216.
J-CI-2	J-COH1	67.7336	464174.015
J-COH1	E5150100	193.4195	3378377.22
MH-14s	MH-14	156.0326	2558879.27
MH-18S	MH-18S2	115.6550	2629703.50
MH-7S	MH-7S2	465.8695	11882241.8

Table E19 - Junction Inflow & Outflow Listing
Units are either ft^3 or m^3 depending on the units in your model.

Junction Name	Constant Inflow to Node	User Inflow to Node	Interface Inflow to Node	DWF Inlow to Node	Inflow through Outfall	RNF Layer Inflow to Node	Outflow from Node	Evaporation from Node	Inflow from 2D Layer
MHI-2	0.0000	154863.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
MHI-1	0.0000	159867.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
CI-3A	0.0000	16542.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
MHI-4	0.0000	80883.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
CI-3	0.0000	11700.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
MHI-3	0.0000	79686.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
CI-1	0.0000	48330.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
CI-2	0.0000	96228.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
CI-4	0.0000	50040.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
MHI-4.1	0.0000	88137.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
CI-1.1	0.0000	32427.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
MHI-1.1	0.0000	66690.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
MHI-2.1	0.0000	73107.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
CI-2.1	0.0000	66456.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
JCT-3	0.0000	24795.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
MH-6	0.0000	18702.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
CI-3.1	0.0000	81414.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
MHI-22	0.0000	119259.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
CI-9	0.0000	301784.2500	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
MHI-13	0.0000	61789.5500	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
JCT-14	0.0000	57879.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
MH-16	0.0000	24363.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
CI-7	0.0000	64422.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
MH-24	0.0000	83556.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
CI-8	0.0000	71730.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
MH-20	0.0000	70038.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
MH-21	0.0000	74853.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
CI-11	0.0000	41193.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
CI-4.1	0.0000	68364.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
MHI-5	0.0000	92547.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
CI-2C	0.0000	78399.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
MH-8	0.0000	33507.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
JCT-9	0.0000	29205.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
CI-10	0.0000	16956.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
MHI-12S	0.0000	116685.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
MH-11	0.0000	64116.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
CI-5	0.0000	94032.1000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
CI-6	0.0000	98838.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
CI-13	0.0000	50760.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
CI-12A	0.0000	34947.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
CI-13A	0.0000	99909.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
BRCKH01.3	0.0000	225.8073E+06	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
BRCKH00.1	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	298.3809E+06	0.0000	
MH-13	0.0000	16110.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
CI-9.1	0.0000	56376.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
CI-10.1	0.0000	23778.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
CI-11.1	0.0000	22977.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
CI-12.1	0.0000	20484.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
MHI-17	0.0000	109692.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
CI-13.1	0.0000	36333.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
MHI-16	0.0000	96246.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
CI-16	0.0000	28710.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
MH-8.1	0.0000	22644.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
MHI-6	0.0000	88191.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
CI-8.1	0.0000	45666.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
CI-7.1	0.0000	31410.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
MHI-3.1	0.0000	36972.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
CI-4.2	0.0000	174843.1000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
MHI-2.2	0.0000	120114.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	

CI-3.2	0.0000	20133.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CI-1.2	0.0000	51651.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CI-2.2	0.0000	250228.6000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CI-5.1	0.0000	206420.7500	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
MHI-4.2	0.0000	41760.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
MHI-1.2	0.0000	122724.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
MHI-5.1	0.0000	89262.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CI-6.1	0.0000	134928.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CI-14	0.0000	121032.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
MH-14	0.0000	12186.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
W43RD	0.0000	2.5545E+06	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CI-15	0.0000	46143.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
COH01	0.0000	2.8762E+06	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
E11504.3	0.0000	50.7313E+06	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
E5150100	0.0000	0.0000	0.0000	0.0000	14244.3563	0.0000	3.3925E+06	0.0000
MH-18S	0.0000	2.6455E+06	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
MH-7S	0.0000	11.4391E+06	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Table E20 - Junction Flooding and Volume Listing. The maximum volume is the total volume in the node including the volume in the flooded storage area. This is the max volume at any time. The volume in the flooded storage area is the total volume above the ground elevation, where the flooded pond storage area starts. The fourth column is instantaneous, the fifth is the sum of the flooded volume over the entire simulation. Units are either ft^3 or m^3 depending on the units.

Junction Name	Surcharged Time (min)	Flooded Time(min)	Out of 1D-System (Flooded Volume)	Maximum Volume	Passed to 2D cell OR Volume Stored in allowed Flood Pond of 1D-System
MHI-2	299.9167	211.1429	0.0000	57186.4711	60925.1873
MHI-1	284.1109	265.1980	0.0000	74389.7758	76764.0630
CI-3A	540.2444	456.5010	0.0000	39067.6599	43691.5942
MHI-4	564.1593	471.9236	0.0000	60543.7605	66567.1878
CI-3	547.5074	394.7083	0.0000	14477.0088	15173.5900
MHI-3	549.5741	383.2887	0.0000	20003.1191	20725.6943
CI-1	279.5690	243.2887	0.0000	17594.2284	18958.5499
CI-2	267.7751	206.5979	0.0000	26999.2639	27098.3800
E11504.6	0.0000	0.0000	0.0000	178.4913	0.0000
CI-4	562.1741	53.0089	0.0000	82.3177	7.5859
MHI-4.1	722.8750	0.0000	0.0000	142.1668	0.0000
CI-1.1	754.2917	0.0000	0.0000	10963.3608	0.0000
MHI-1.1	754.2917	560.6407	0.0000	555636.4318	576431.9223
MHI-2.1	743.0000	503.8958	0.0000	175652.9324	183441.4438
CI-2.1	741.1667	421.7199	0.0000	23254.6506	25776.0966
JCT-3	724.2083	197.7054	0.0000	3476.5797	3438.4814
MH-7	540.2148	0.0000	0.0000	199.1395	0.0000
MH-6	692.5417	453.3065	0.0000	106578.0919	142991.2906
JCT-10	675.4904	0.0000	0.0000	189.1123	0.0000
CI-3.1	670.5385	0.0000	0.0000	43.3405	0.0000
MHI-22	655.1974	0.0000	0.0000	643.9533	0.0000
CI-9	652.8769	416.5149	0.0000	16338.9269	19180.1206
MHI-13	653.5564	0.0000	0.0000	55.7366	0.0000
JCT-14	647.0179	455.2708	0.0000	23555.2975	25351.5372
MH-23	644.8857	462.0268	0.0000	45179.0520	50534.9195
MH-16	634.8048	583.5433	0.0000	193539.8911	216092.6344
CI-7	641.1576	610.4495	0.0000	344347.0796	393706.8294
MH-24	627.0250	546.9143	0.0000	58896.2772	64337.2620
MH-25	628.3032	564.7190	0.0000	63396.4856	65584.2523
CI-12	632.2382	583.0278	0.0000	32927.8551	33231.9362
CI-8	628.0269	599.5556	0.0000	47961.1791	50698.2605
MH-19	628.5128	591.3750	0.0000	241112.7153	244507.5186
MH-20	619.3259	507.5370	0.0000	8111.8295	9451.9092
MH-21	616.0296	540.7004	0.0000	12266.8601	19201.7771
CI-11	630.7917	572.4419	0.0000	39158.6682	40952.4286
JCT-15	640.8810	551.3690	0.0000	80855.5994	83910.2401
MH-18	631.4846	577.3225	0.0000	145607.8519	157924.1181

CI-4.1	650.1667	332.5741	0.0000	4001.9749	4339.6094
BRCKH01.0	47.2431	0.0000	0.0000	231.4076	0.0000
MHI-5	700.4583	0.0000	0.0000	133.6985	0.0000
CI-2B	606.7415	0.0000	0.0000	20238.3988	0.0000
CI-2C	635.6806	0.0000	0.0000	124094.0843	0.0000
MH-7S2	675.1827	444.7143	0.0000	156162.0686	293075.6512
MH-8	669.9942	0.0000	0.0000	132.2904	0.0000
JCT-9	685.1667	453.9911	0.0000	93217.1909	119989.3390
MHI-12	660.8942	0.0000	0.0000	183.0950	0.0000
CI-10	639.4417	490.6637	0.0000	25537.5914	28979.3834
MHI-12S	658.0994	161.7488	0.0000	1000.7657	961.9282
MH-11	665.6603	0.0000	0.0000	185.6228	0.0000
CI-5	645.5436	401.1587	0.0000	6705.8298	7737.0362
CI-6	639.6000	549.7429	0.0000	28850.0946	31509.2646
MH-18S2	610.6179	584.9048	0.0000	228186.3871	265709.6799
MH-24S	593.3051	571.7389	0.0000	135805.4075	152307.5771
CI-13	625.6278	594.1806	0.0000	61702.9877	67178.4961
CI-12A	641.1611	576.9563	0.0000	71325.2061	78237.0504
CI-13A	624.7917	585.7553	0.0000	33928.4078	38134.0855
BRCKH01.3	259.3363	23.4375	0.0000	378.0724	7671.4452
BRCKH01.2	0.0000	0.0000	0.0000	251.7280	0.0000
BRCKH00.1	0.0000	0.0000	0.0000	229.4552	0.0000
MH-13	295.1083	294.4000	0.0000	24295.7088	25699.0832
MH-9	349.3333	298.2018	0.0000	29222.3090	33365.4768
MH-10	318.1468	300.7500	0.0000	39425.6107	41374.6212
CI-9.1	317.5532	311.0545	0.0000	51056.6267	55729.8080
CI-10.1	446.7622	314.0407	0.0000	72829.3135	79546.0314
CI-11.1	452.4048	335.4167	0.0000	118518.6197	130956.0929
CI-12.1	461.5278	360.3542	0.0000	37675.3916	41044.1224
MHI-17	461.5000	271.2776	0.0000	67166.0745	67689.7052
CI-13.1	482.9514	0.0000	0.0000	15806.5665	0.0000
MHI-16	457.0903	264.0417	0.0000	40980.6032	41636.0843
MHI-18	489.5208	224.5236	0.0000	36550.0156	36920.7968
CI-16	456.4514	309.0321	0.0000	31935.1077	34632.4964
JCT-11	457.3750	317.0001	0.0000	127.4519	93.7787
JCT-12	461.3542	293.6921	0.0000	62989.1011	67636.6199
MH-8.1	347.4404	259.9447	0.0000	9812.0862	11562.1347
MHI-6	323.1190	290.9762	0.0000	29351.3387	33498.3696
CI-8.1	304.2321	0.0000	0.0000	13460.8117	0.0000
JCT-7	313.7827	277.2863	0.0000	17529.8014	18833.2374
CI-7.1	297.9226	138.7303	0.0000	6169.5220	7083.2443
MHI-3.1	299.6190	114.2676	0.0000	3770.8700	4108.9769
CI-4.2	309.2440	141.8197	0.0000	17287.9957	20232.4575
MHI-2.2	310.4673	0.0000	0.0000	104.5770	0.0000
CI-3.2	248.8284	105.0047	0.0000	4703.8546	5715.8648
CI-1.2	244.1933	133.5720	0.0000	11113.6259	12423.7096
CI-2.2	293.3071	150.0089	0.0000	25776.5503	27228.8756
CI-5.1	314.2857	166.0625	0.0000	12015.9150	13565.1467
MHI-4.2	314.7202	99.1324	0.0000	3255.3578	3677.2599
MHI-1.2	317.5556	90.6852	0.0000	5628.1038	6375.4436
MHI-5.1	351.1429	113.1829	0.0000	3110.6168	3325.8828
CI-6.1	351.4286	0.0000	0.0000	15810.8354	0.0000
CI-14	454.3264	0.0000	0.0000	15813.3619	0.0000
CI-14A	291.0394	0.0000	0.0000	6591.3066	0.0000
CI-15A	345.3333	0.0000	0.0000	8282.4043	0.0000
MH-14	361.3333	287.2940	0.0000	32764.9561	37616.6824
W43RD	453.5595	263.4335	0.0000	41605.6169	49079.4877
CI-15	447.3095	311.6388	0.0000	84558.1185	91824.0610
JCT-15.1	449.3810	297.5417	0.0000	53803.6189	58117.2911
CI-131	237.9236	237.9236	0.0000	63187.3345	68763.8242
E11504.4	0.0000	0.0000	0.0000	183.3479	0.0000
COH1	332.5708	278.3280	0.0000	116.3877	65.8742
E11504.5	0.0000	0.0000	0.0000	179.0705	0.0000
COH01	338.4286	313.1640	0.0000	525526.8404	572792.5306

E11504.3	0.0000	0.0000	0.0000	184.0396	0.0000	
E11504.7	120.1984	0.0000	0.0000	183.6868	0.0000	
E11504.8	0.0000	0.0000	0.0000	184.6471	0.0000	
BRCKH01.1	231.9583	128.5053	0.0000	3206.1568	130668.9568	
J-CI-2	319.6519	138.1905	0.0000	10963.2546	11048.3307	
J-COH1	298.2398	0.0000	0.0000	170.4401	0.0000	
E5150100	551.4473	0.0000	0.0000	182.3327	0.0000	
MH-14s	457.0694	232.1149	0.0000	9796.1828	11813.5985	
MH-18S	603.8952	581.6288	0.0000	678547.9135	796358.0376	
MH-7S	664.0654	380.2485	0.0000	1355116.910	1.6192E+06	

==================================
| Simulation Specific Information |
==================================

Number of Input Conduits.....	109	Number of Simulated Conduits.....	111
Number of Natural Channels.....	10	Number of Junctions.....	111
Number of Storage Junctions.....	32	Number of Weirs.....	0
Number of Orifices.....	0	Number of Pumps.....	0
Number of Free Outfalls.....	2	Number of Tide Gate Outfalls.....	0

===
| Average % Change in Junction or Conduit is defined as: |
| Conduit % Change ==> 100.0 (Q(n+1) - Q(n)) / Qfull |
| Junction % Change ==> 100.0 (Y(n+1) - Y(n)) / Yfull |
===

The Conduit with the largest average change was..11504.5 with 5.920 percent
The Junction with the largest average change was.MH-7S with 0.224 percent
The Conduit with the largest sinuosity was.....MH8-9 with 160.697

===
| Table E21. Continuity balance at the end of the simulation |
| Junction Inflow, Outflow or Street Flooding |
| Error = Inflow + Initial Volume - Outflow - Final   Volume |
===

Inflow Junction	Inflow Volume,ft^3	Average Inflow, cfs
MHI-2	154864.8714	1.1949
MHI-1	159869.1441	1.2336
CI-3A	16542.2737	0.1276
MHI-4	80885.7252	0.6241
CI-3	11700.1462	0.0903
MHI-3	79687.1198	0.6149
CI-1	48330.7569	0.3729
CI-2	96229.0252	0.7425
CI-4	50041.6617	0.3861
MHI-4.1	88138.7528	0.6801
CI-1.1	32427.5439	0.2502
MHI-1.1	66691.2306	0.5146
MHI-2.1	73108.3218	0.5641
CI-2.1	66457.1488	0.5128
JCT-3	24795.4525	0.1913
MH-6	18702.3576	0.1443
CI-3.1	81416.6386	0.6282
MHI-22	119261.0742	0.9202
CI-9	301790.6529	2.3286
MHI-13	61791.4372	0.4768
JCT-14	57880.0051	0.4466
MH-16	24363.4947	0.1880
CI-7	64424.0870	0.4971
MH-24	83557.7093	0.6447
CI-8	71731.8359	0.5535
MH-20	70039.3426	0.5404
MH-21	74854.2806	0.5776
CI-11	41193.8783	0.3179
CI-4.1	68364.9724	0.5275
MHI-5	92548.8491	0.7141
CI-2C	78401.9081	0.6050
MH-8	33507.6608	0.2585
JCT-9	29205.5267	0.2254
CI-10	16956.3156	0.1308
MHI-12S	116688.7799	0.9004
MH-11	64117.3184	0.4947
CI-5	94034.0319	0.7256
CI-6	98841.1997	0.7627
CI-13	50761.6433	0.3917

CI-12A	34948.1341	0.2697
CI-13A	99912.2479	0.7709
BRCKH01.3	225.80720E+06	1742.3395
MH-13	16110.5225	0.1243
CI-9.1	56377.3811	0.4350
CI-10.1	23778.7710	0.1835
CI-11.1	22977.7459	0.1773
CI-12.1	20484.6631	0.1581
MHI-17	109695.4870	0.8464
CI-13.1	36333.6113	0.2804
MHI-16	96247.3288	0.7426
CI-16	28710.5776	0.2215
MH-8.1	22644.7341	0.1747
MHI-6	88192.2295	0.6805
CI-8.1	45666.8331	0.3524
CI-7.1	31410.5418	0.2424
MHI-3.1	36973.1274	0.2853
CI-4.2	174845.8114	1.3491
MHI-2.2	120115.1624	0.9268
CI-3.2	20133.6838	0.1554
CI-1.2	51652.6948	0.3986
CI-2.2	250232.9790	1.9308
CI-5.1	206424.5616	1.5928
MHI-4.2	41761.2560	0.3222
MHI-1.2	122727.3958	0.9470
MHI-5.1	89263.0693	0.6888
CI-6.1	134929.6407	1.0411
CI-14	121035.9218	0.9339
MH-14	12186.3957	0.0940
W43RD	2.55453E+06	19.7109
CI-15	46144.4957	0.3561
COH01	2.87616E+06	22.1926
E11504.3	50.73142E+06	391.4462
E5150100	14244.3563	0.1099
MH-18S	2.64555E+06	20.4132
MH-7S	11.43919E+06	88.2653
BRCKH00.1	-298.381E+06	-2302.3214
E5150100	-3.393E+06	-26.1771

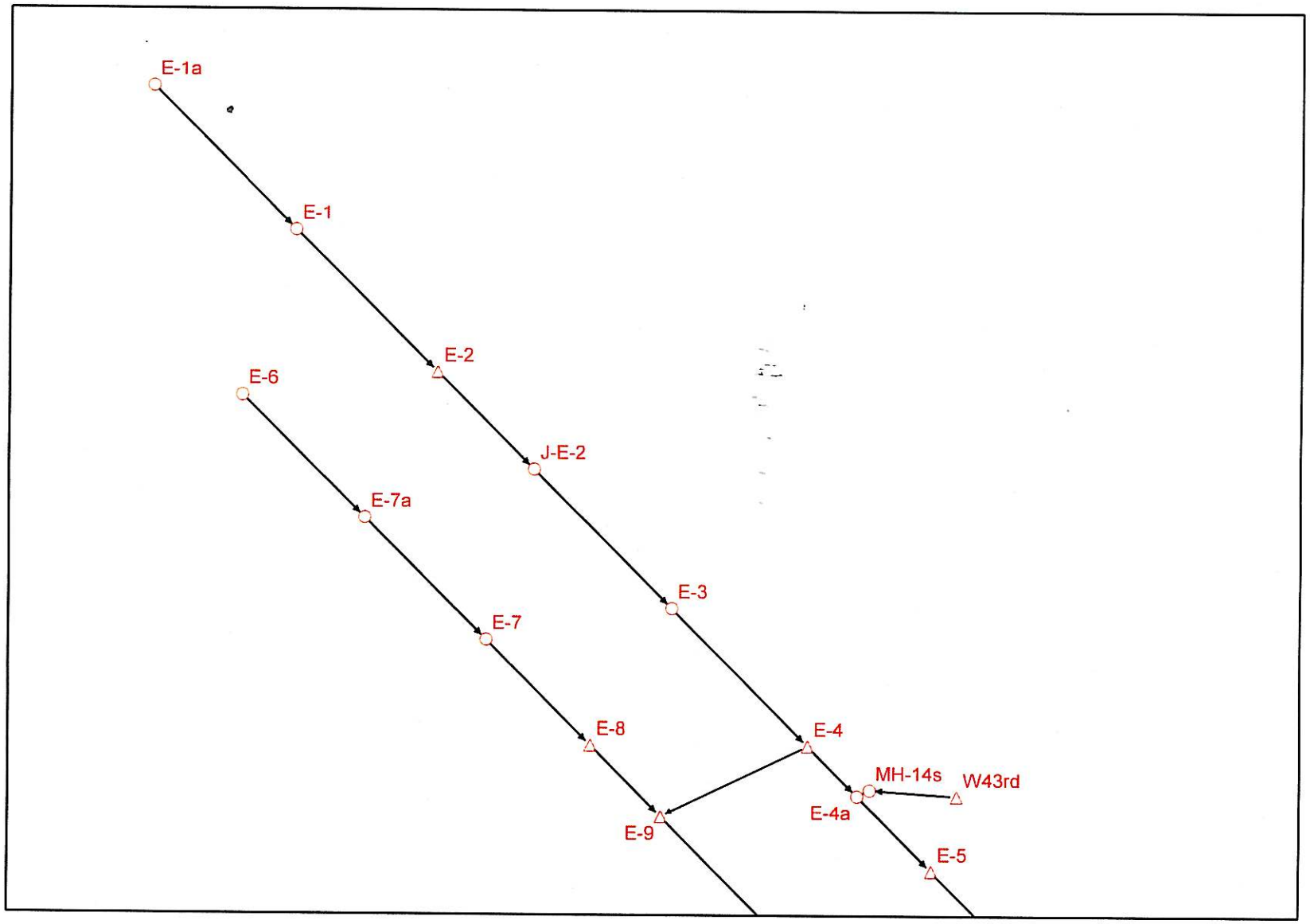
Outflow Junction	Outflow Volume,ft^3	Average Outflow, cfs
BRCKH00.1	298.38086E+06	2302.3214
E5150100	3.39255E+06	26.1771

```
*=====================================================*
| Initial system volume        =         1.3823 Cu Ft |
| Total system inflow volume   = 301.094196E+06 Cu Ft |
| Inflow + Initial volume      = 301.094197E+06 Cu Ft |
*=====================================================*
| Total system outflow         = 301.773404E+06 Cu Ft |
| Volume left in system        =     36377.9127 Cu Ft |
| Evaporation                  =         0.0000 Cu Ft |
| Outflow + Final Volume       = 301.809782E+06 Cu Ft |
*=====================================================*


*================================================*
| Total Model Continuity Error                   |
| Error in Continuity, Percent =        -0.2377 |
| Error in Continuity, ft^3    =    -715585.113 |
| + Error means a continuity loss, - a gain      |
*================================================*

#####################################################
# Table E22. Numerical Model judgement section    #
#####################################################

Your overall error was                                -0.2377 percent


Worst nodal error was in node MH-7S            with       -1.9000 percent


Of the total inflow this loss was                      0.1472 percent
```

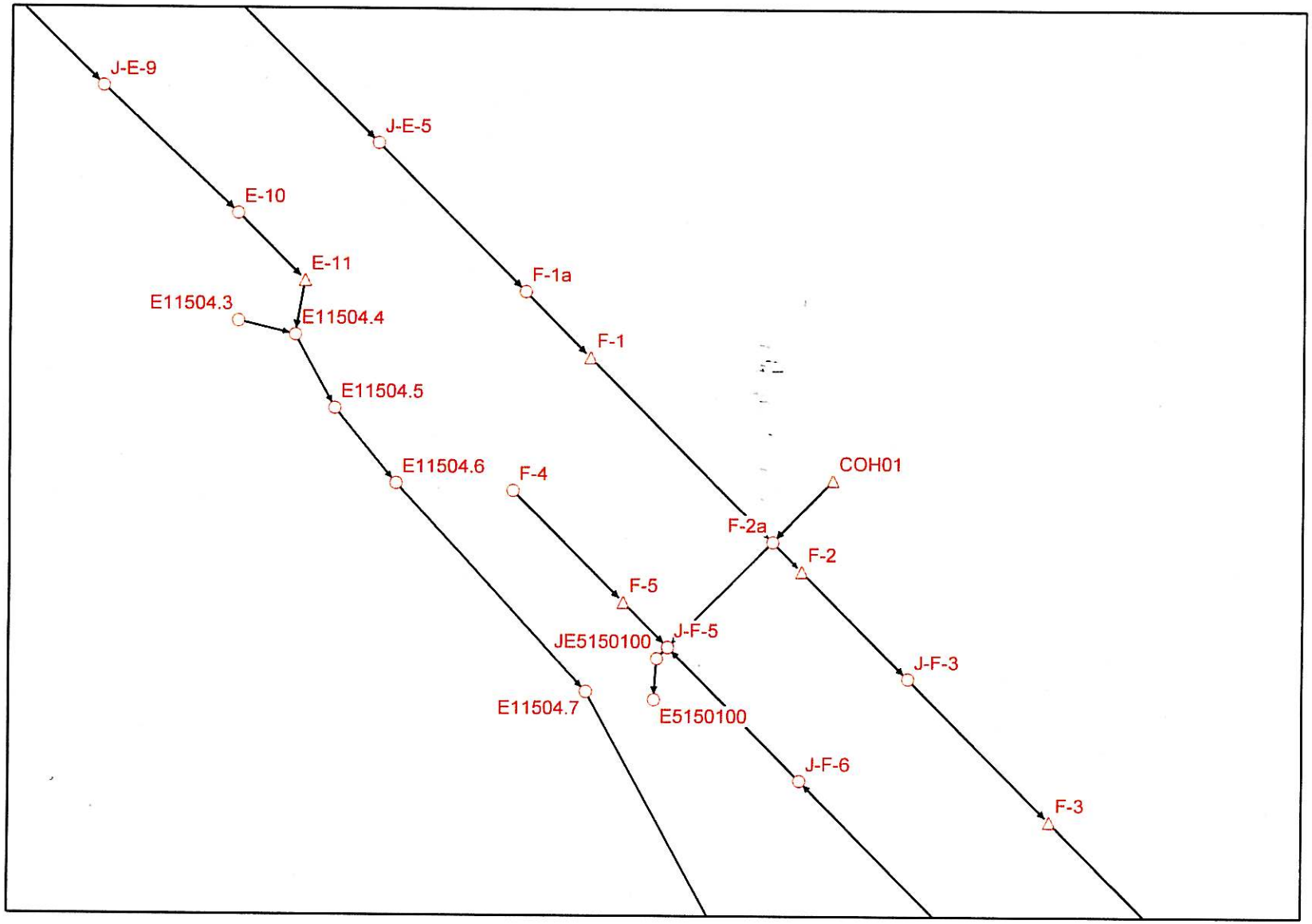
```
Your overall continuity error was                 Excellent

                                                 Excellent Efficiency

Efficiency of the simulation                      1.94

Most Number of Non Convergences at one Node       2.

Total Number Non Convergences at all Nodes        3.

Total Number of Nodes with Non Convergences       2.


===> Hydraulic model simulation ended normally.
===> XP-SWMM Simulation ended normally.


===> Your input file was named  : P:\PROJECTS\290PMC\PhaseII\DRA\Models\SWMM\Segment A\Existing\US290_SegA_Sys_BKHSEW43_Ext100-adjust-wat.DAT
===> Your output file was named : P:\PROJECTS\290PMC\PhaseII\DRA\Models\SWMM\Segment A\Existing\US290_SegA_Sys_BKHSEW43_Ext100-adjust-wat.out

*============================================================*
|             SWMM Simulation Date and Time Summary          |
*============================================================*
| Starting Date... August     22, 2009  Time...    8:42: 9:54  |
|   Ending Date... August     22, 2009  Time...    8:44:47: 6  |
|  Elapsed Time...    2.62533 minutes or    157.52000 seconds  |
*============================================================*
```

OUTFALLS 20-22
SWMM OUTPUT
100 YR- MITIGATED CONDITIONS

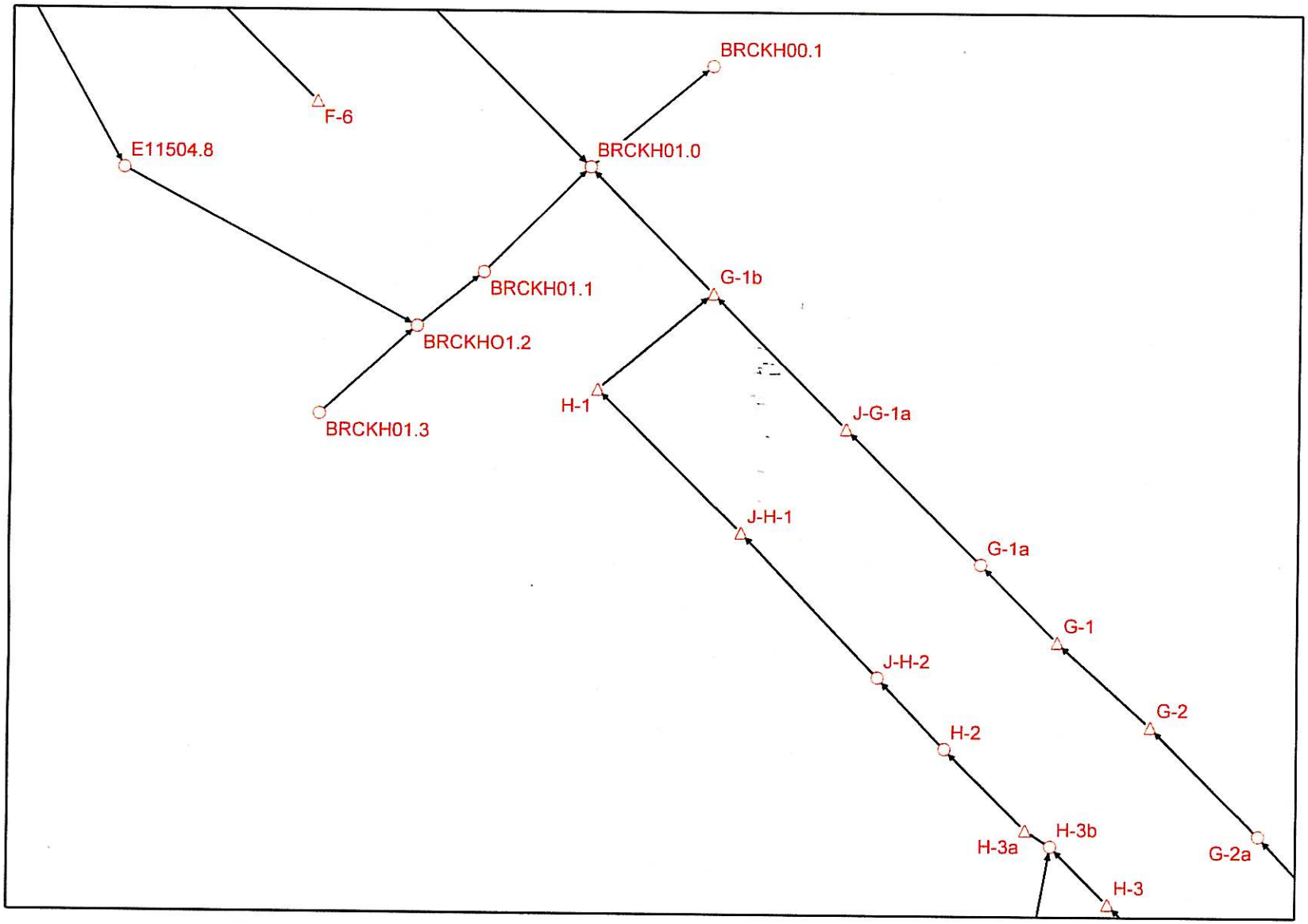
OUTFALL 20, 21, & 22
MITIGATED CONDITIONS SWMM LAYOUT



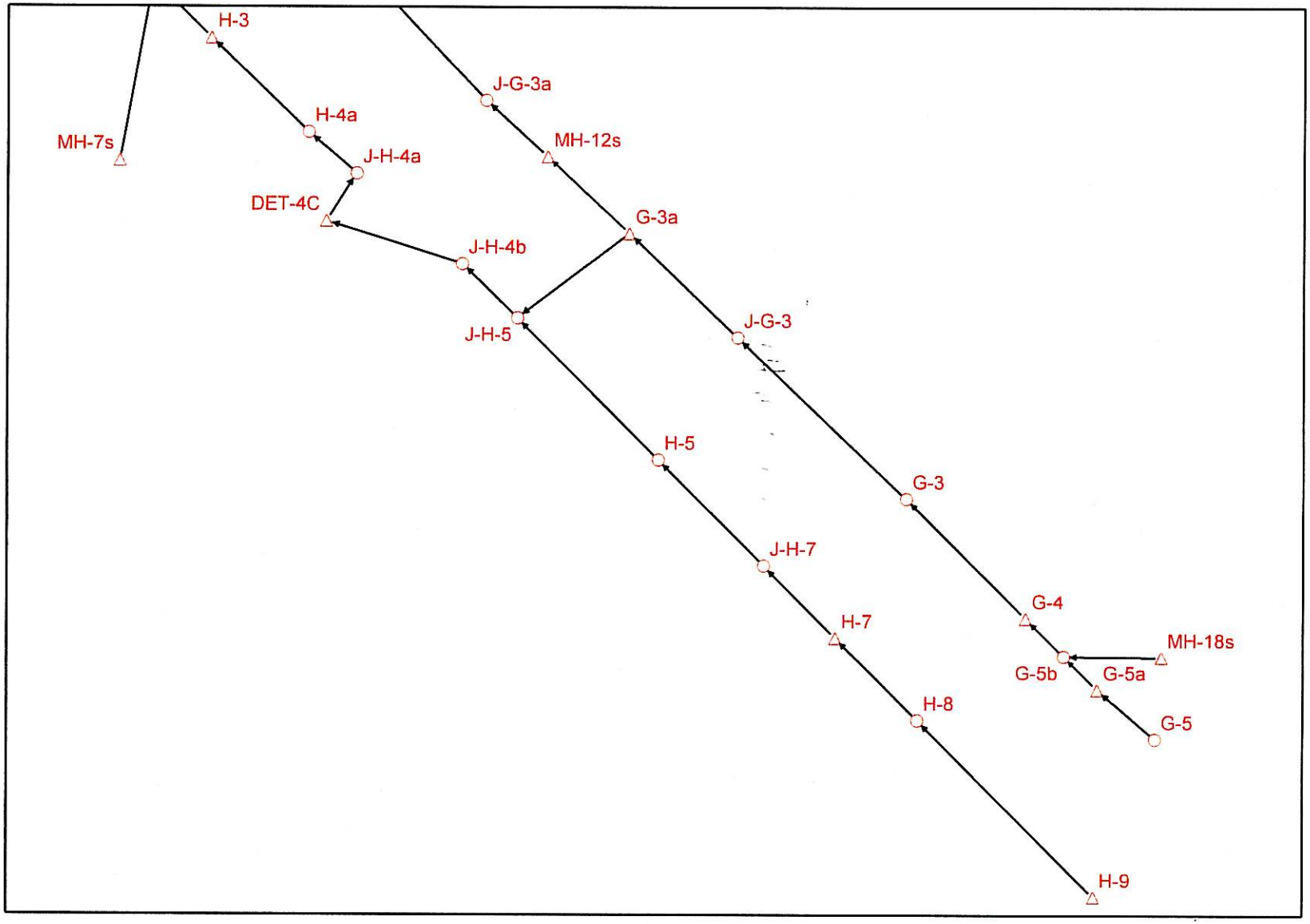
OUTFALL 20, 21, & 22
MITIGATED CONDITIONS SWMM LAYOUT



OUTFALL 20, 21, & 22
MITIGATED CONDITIONS SWMM LAYOUT



OUTFALL 20, 21, & 22
MITIGATED CONDITIONS SWMM LAYOUT



```
 Current Directory:   C:\XPS\xpstorm
 Engine Name: C:\XPS\xpstorm\SWMMEN~1.EXE


 Input File : \Segment A\Mitigated\US290_SegA_Sys_BKHSEW43_Mit100-adjust-wat.XP

          *================================================*
          |                     xpswmm                     |
          |     Storm and Wastewater Management Model      |
          |           Interface Version: 10.52             |
          |              Engine Version: 10.54             |
          |================================================|
          |                                                |
          |                 Developed by                   |
          |                                                |
          |                 XP Software                    |
          |                                                |
          |================================================|
          |      XP Software       November, 2006          |
          |       Data File Version --->   11.9            |
          |       Serial Number: 66-1000-0581              |
          |                      HNTB                      |
          *================================================*

Engine Name: C:\XPS\xpstorm\SWMMEN~1.EXE


*====================================================*
|       Input and Output file names by Layer         |
*====================================================*

 Input File  to Layer #     1 JOT.US
 Output File to Layer #     1 JOT.US

*============================================================*
|   Special command line arguments in XP-SWMM2000. This     |
|   now includes program defaults. $Keywords are the program|
|   defaults.  Other Keywords are from the SWMMCOM.CFG file.|
|   or the command line or any cfg file on the command line.|
|   Examples include these in the file xpswm.bat under the   |
|   section :solve or in the windows version XPSWMM32 in the|
|   file solve.bat                                           |
|                                                            |
|   Note: the cfg file should be in the subdirectory swmxp   |
|         or defined by the set variable in the xpswm.bat    |
|         file.  Some examples of the command lines possible|
|         are shown below:                                   |
|                                                            |
|   swmmd swmmcom.cfg                                        |
|   swmmd my.cfg                                             |
|   swmmd nokeys nconv5 perv extranwq                        |
*============================================================*

 $powerstation                          0.0000         1         2
 $perv                                  0.0000         0         4
 $oldegg                                0.0000         0         7
 $as                                    0.0000         0        11
 $noflat                                0.0000         0        21
 $oldomega                              0.0000         0        24
 $oldvol                                0.0000         1        28
 $implicit                              0.0000         1        29
 $oldhot                                0.0000         1        31
 $oldscs                                0.0000         0        33
 $flood                                 0.0000         1        40
 $nokeys                                0.0000         0        42
 $pzero                                 0.0000         0        55
 $oldvol2                               0.0000         2        59
 $storage2                              0.0000         3        62
 $oldhot1                               0.0000         1        63
 $pumpwt                                0.0000         1        70
 $ecloss                                0.0000         1        77
 $exout                                 0.0000         0        97
 $spatial = 0.90                        0.9000         5       124
 $djref = -1.0                         -0.1000         3       143
 $weirlen = 50                         50.0000         1       153
 $oldbnd                                0.0000         1       154
 $nogrelev                              0.0000         1       161
 $ncmid                                 0.0000         0       164
 $new_nl_97                             0.0000         2       290
 $best97                                0.0000         1       294
 $newbound                              0.0000         1       295
 $q_tol = 0.01                          0.0001         1       316
 $new_storage                           0.0000         1       322
 $old_iteration                         0.0000         1       333
 $minlen=30.0                          30.0000         1       346
 $review_elevation                      0.0000         1       383
 $use_half_volume                       0.0000         1       385
 $min_ts = 0.5                          0.5000         1       407
 $design_restart = on                   0.0000         1       412
 $zero_value=1.e-05                     0.0000         1       415
 $relax_depth = on                      0.0000         1       427
 $saveallpts = on                       0.0000         1       434

 *============================================================*
 | Parameter Values on the Tapes Common Block.These are the |
 | values read from the data file and dynamically allocated |
 | by the model for this simulation.                        |
 *============================================================*

  Number of Subcatchments in the Runoff Block (NW)....     0
  Number of Channel/Pipes in the Runoff Block (NG)....     0
  Runoff Water quality constituents (NRQ).............     0
  Runoff Land Uses per Subcatchment (NLU).............     0
  Number of Elements in the Transport Block (NET).....     0
  Number of Storage Junctions in Transport (NTSE).....     0
  Number of Input Hydrographs in Transport (NTH)......     0
  Number of Elements in the Extran Block (NEE)........    81
  Number of Groundwater Subcatchments in Runoff (NGW).     0
  Number of Interface locations for all Blocks (NIE)..    81
  Number of Pumps in Extran (NEP).....................     0
  Number of Orifices in Extran (NEO)..................     0
  Number of Tide Gates/Free Outfalls in Extran (NTG)..     2
  Number of Extran Weirs (NEW)........................     0
  Number of scs hydrograph points.....................     1
  Number of Extran printout locations (NPO)...........     0
  Number of Tide elements in Extran (NTE).............     2
  Number of Natural channels (NNC)....................    10
  Number of Storage junctions in Extran (NVSE)........    30
  Number of Time history data points in Extran(NTVAL).   300
  Number of Variable storage elements in Extran (NVST)    15
  Number of Input Hydrographs in Extran (NEH).........    47
  Number of Particle sizes in Transport Block (NPS)...     0
  Number of User defined conduits (NHW)...............    81
  Number of Connecting conduits in Extran (NECC)......    20
  Number of Upstream elements in Transport (NTCC).....    10
  Number of Storage/treatment plants (NSTU)...........     1
```

```
 Number of Values for R1 lines in Transport (NR1)....     0
 Number of Nodes to be allowed for (NNOD)............    81
 Number of Plugs in a Storage Treatment Unit.........     1


####################################################
#    Entry made to the HYDRAULIC Layer(Block) of SWMM #
#    Last Updated June,2005 by XP Software           #

    US 290/Hempstead Corridor
    DRAINAGE IMPACT STUDY- SEGMENT A BRICKHOUSE SYSTEM


*==========================================================*
|        HYDRAULICS TABLES IN THE OUTPUT FILE              |
|  These are the more important tables in the output file.  |
|  You can use your editor to find the table numbers,       |
|  for example: search for Table E20 to check continuity.   |
|  This output file can be imported into a Word Processor   |
|  and printed on US letter or A4 paper using portrait      |
|  mode, courier font, a size of 8 pt. and margins of 0.75  |
|                                                           |
| Table E1   - Basic Conduit Data                           |
| Table E2   - Conduit Factor Data                          |
| Table E3a  - Junction Data                                |
| Table E3b  - Junction Data                                |
| Table E4   - Conduit Connectivity Data                    |
| Table E4a  - Dry Weather Flow Data                        |
| Table E4b  - Real Time Control Data                       |
| Table E5   - Junction Time Step Limitation Summary        |
| Table E5a  - Conduit Explicit Condition Summary           |
| Table E6   - Final Model Condition                        |
| Table E7   - Iteration Summary                            |
| Table E8   - Junction Time Step Limitation Summary        |
| Table E9   - Junction  Summary  Statistics                |
| Table E10  - Conduit   Summary  Statistics                |
| Table E11  - Area assumptions used in the analysis        |
| Table E12  - Mean conduit information                     |
| Table E13  - Channel losses(H) and culvert info           |
| Table E13a - Culvert Analysis Classification              |
| Table E14  - Natural Channel Overbank Flow Information    |
| Table E14a - Natural Channel Encroachment Information     |
| Table E14b - Floodplain Mapping                           |
| Table E15  - Spreadsheet Info List                        |
| Table E15a - Spreadsheet Reach List                       |
| Table E16  - New Conduit Output Section                   |
| Table E17  - Pump Operation                               |
| Table E18  - Junction Continuity Error                    |
| Table E19  - Junction Inflow & Outflow Listing            |
| Table E20  - Junction Flooding and Volume List            |
| Table E21  - Continuity balance at simulation end         |
| Table E22  - Model Judgement Section                      |
*==========================================================*

Time Control from Hydraulics Job Control
Year.........    2009 Month.......       1
Day..........       1 Hour........       0
Minute.......       0 Second......       0


Control information for simulation
----------------------------------

Integration cycles..................     12960
Length of integration step is......     10.00 seconds
Simulation length...................     36.00 hours
Do not create equiv. pipes(NEQUAL).         0
Use U.S. customary units for I/O...         0
Printing starts in cycle...........         1
Intermediate printout intervals of.       500 cycles
Intermediate printout intervals of.     83.33 minutes
Summary printout intervals of......       500 cycles
Summary printout time interval of..     83.33 minutes
Hot start file parameter (REDO)....         0
Initial time.......................      0.00 hours

Iteration variables: Flow Tolerance.   0.00010
                     Head Tolerance.   0.00010
    Minimum depth (m or ft).........   0.00001
    Underrelaxation parameter.......   0.85000
    Time weighting parameter........   0.85000
    Conduit roughness factor........   1.00000
    Flow adjustment factor..........   1.00000
    Initial Condition Smoothing.....         0
    Courant Time Step Factor........   1.00000
    Default Expansion/Contraction K.   0.00000
    Default Entrance/Exit K.........   0.00000
    Routing Method..................   Dynamic Wave
Default surface area of junctions...     12.57 square feet.
Minimum Junction/Conduit Depth......   0.00001 feet.
Ponding Area Coefficient............   5000.00
Ponding Area Exponent...............    1.0000
Minimum Orifice Length..............    500.00 feet.
NJSW input hydrograph junctions.....    47
     or user defined hydrographs....

        Natural Cross-Section information for Channel E115-01.3
        =======================================================
         Cross-Section ID (from X1 card) :     1.0 Channel sequence number :     1

  Left Overbank Length   :    131.1 ft               Maximum Elevation        :    70.00 ft.
  Main Channel Length    :    254.7 ft               Maximum Depth            :    18.42 ft.
  Right Overbank Length  :    283.6 ft               Maximum Section Area     : 2565.914 ft^2
                                                     Maximum hydraulic radius :     1.74 ft.
  Manning N :      0.080  to Station        4967.7    Max topwidth             :  1460.20 ft.
    "    "  :      0.015  in main Channel             Maximum Wetted Perimeter : 1.47E+03 ft
    "    "  :      0.080  Beyond station    5034.7    Max left bank area       :  1746.81 ft^2
                                                     Max right bank area      :    53.35 ft^2
  Allowable Encroachment Depth :    0.00 ft          Max center channel area  : 765.7545 ft^2

        Natural Cross-Section information for Channel E115-03.1
        =======================================================
         Cross-Section ID (from X1 card) :     2.0 Channel sequence number :     2

  Left Overbank Length   :    592.2 ft               Maximum Elevation        :    69.80 ft.
  Main Channel Length    :    151.0 ft               Maximum Depth            :    18.41 ft.
  Right Overbank Length  :    196.1 ft               Maximum Section Area     : 1918.198 ft^2
                                                     Maximum hydraulic radius :     1.97 ft.
  Manning N :      0.080  to Station        4967.7    Max topwidth             :   964.60 ft.
    "    "  :      0.015  in main Channel             Maximum Wetted Perimeter : 9.76E+02 ft
    "    "  :      0.080  Beyond station    5034.7    Max left bank area       :  1092.85 ft^2
                                                     Max right bank area      :    60.26 ft^2
  Allowable Encroachment Depth :    0.00 ft          Max center channel area  : 765.0845 ft^2

        Natural Cross-Section information for Channel E115-02
        =====================================================
         Cross-Section ID (from X1 card) :     3.0 Channel sequence number :     3
```

```
Left Overbank Length   :    308.5 ft               Maximum Elevation        :    69.61 ft.
Main Channel Length    :    307.0 ft               Maximum Depth            :    18.34 ft.
Right Overbank Length  :    320.2 ft               Maximum Section Area     : 1655.169 ft^2
                                                   Maximum hydraulic radius :     1.60 ft.
Manning N :      0.080  to Station        4966.1    Max topwidth             :  1025.30 ft.
  "    "  :      0.015  in main Channel             Maximum Wetted Perimeter : 1.04E+03 ft
  "    "  :      0.080  Beyond station    5033.2    Max left bank area       :   812.33 ft^2
                                                   Max right bank area      :    84.45 ft^2
Allowable Encroachment Depth :    0.00 ft          Max center channel area  : 758.3905 ft^2

      Natural Cross-Section information for Channel E115-01.1
      =======================================================
       Cross-Section ID (from X1 card) :     4.0 Channel sequence number :     4

Left Overbank Length   :     97.7 ft               Maximum Elevation        :    69.58 ft.
Main Channel Length    :    114.2 ft               Maximum Depth            :    18.34 ft.
Right Overbank Length  :    131.8 ft               Maximum Section Area     : 1655.169 ft^2
                                                   Maximum hydraulic radius :     1.60 ft.
Manning N :      0.080  to Station        4966.1    Max topwidth             :  1025.30 ft.
  "    "  :      0.015  in main Channel             Maximum Wetted Perimeter : 1.04E+03 ft
  "    "  :      0.080  Beyond station    5033.2    Max left bank area       :   812.33 ft^2
                                                   Max right bank area      :    84.45 ft^2
Allowable Encroachment Depth :    0.00 ft          Max center channel area  : 758.3905 ft^2

      Natural Cross-Section information for Channel Link71
      ====================================================
       Cross-Section ID (from X1 card) :     5.0 Channel sequence number :     5

Left Overbank Length   :    203.0 ft               Maximum Elevation        :    74.80 ft.
Main Channel Length    :    200.0 ft               Maximum Depth            :    16.39 ft.
Right Overbank Length  :    200.0 ft               Maximum Section Area     : 3157.084 ft^2
                                                   Maximum hydraulic radius :     2.27 ft.
Manning N :      0.080  to Station        4967.8    Max topwidth             :  1378.60 ft.
  "    "  :      0.015  in main Channel             Maximum Wetted Perimeter : 1.39E+03 ft
  "    "  :      0.080  Beyond station    5027.3    Max left bank area       :   707.45 ft^2
                                                   Max right bank area      :  1951.44 ft^2
Allowable Encroachment Depth :    0.00 ft          Max center channel area  : 498.1940 ft^2

      Natural Cross-Section information for Channel Link72
      ====================================================
       Cross-Section ID (from X1 card) :     6.0 Channel sequence number :     6

Left Overbank Length   :    778.0 ft               Maximum Elevation        :    71.93 ft.
Main Channel Length    :    778.0 ft               Maximum Depth            :    15.69 ft.
Right Overbank Length  :    778.0 ft               Maximum Section Area     : 3367.358 ft^2
                                                   Maximum hydraulic radius :     1.97 ft.
Manning N :      0.120  to Station        4965.9    Max topwidth             :  1698.82 ft.
  "    "  :      0.015  in main Channel             Maximum Wetted Perimeter : 1.71E+03 ft
  "    "  :      0.080  Beyond station    5029.6    Max left bank area       :  1363.48 ft^2
                                                   Max right bank area      :  1432.92 ft^2
Allowable Encroachment Depth :    0.00 ft          Max center channel area  : 570.9610 ft^2

      Natural Cross-Section information for Channel Link73
      ====================================================
       Cross-Section ID (from X1 card) :     7.0 Channel sequence number :     7

Left Overbank Length   :     63.8 ft               Maximum Elevation        :    72.24 ft.
Main Channel Length    :     63.8 ft               Maximum Depth            :    14.23 ft.
Right Overbank Length  :     63.8 ft               Maximum Section Area     : 1525.378 ft^2
                                                   Maximum hydraulic radius :     1.84 ft.
Manning N :      0.080  to Station        4972.3    Max topwidth             :   816.30 ft.
  "    "  :      0.015  in main Channel             Maximum Wetted Perimeter : 8.31E+02 ft
  "    "  :      0.080  Beyond station    5022.7    Max left bank area       :   512.53 ft^2
                                                   Max right bank area      :   588.67 ft^2
Allowable Encroachment Depth :    0.00 ft          Max center channel area  : 424.1795 ft^2

      Natural Cross-Section information for Channel Link74
      ====================================================
       Cross-Section ID (from X1 card) :     8.0 Channel sequence number :     8

Left Overbank Length   :    436.0 ft               Maximum Elevation        :    72.24 ft.
Main Channel Length    :    428.0 ft               Maximum Depth            :    14.23 ft.
Right Overbank Length  :    421.0 ft               Maximum Section Area     : 1525.378 ft^2
                                                   Maximum hydraulic radius :     1.84 ft.
Manning N :      0.080  to Station        4972.3    Max topwidth             :   816.30 ft.
  "    "  :      0.015  in main Channel             Maximum Wetted Perimeter : 8.31E+02 ft
  "    "  :      0.080  Beyond station    5022.7    Max left bank area       :   512.53 ft^2
                                                   Max right bank area      :   588.67 ft^2
Allowable Encroachment Depth :    0.00 ft          Max center channel area  : 424.1795 ft^2

      Natural Cross-Section information for Channel Link75
      ====================================================
       Cross-Section ID (from X1 card) :     9.0 Channel sequence number :     9

Left Overbank Length   :     42.5 ft               Maximum Elevation        :    72.25 ft.
Main Channel Length    :     42.5 ft               Maximum Depth            :    14.23 ft.
Right Overbank Length  :     42.5 ft               Maximum Section Area     : 787.7791 ft^2
                                                   Maximum hydraulic radius :     2.58 ft.
Manning N :      0.080  to Station        4958.9    Max topwidth             :   290.90 ft.
  "    "  :      0.015  in main Channel             Maximum Wetted Perimeter : 3.05E+02 ft
  "    "  :      0.080  Beyond station    5028.1    Max left bank area       :   206.03 ft^2
                                                   Max right bank area      :   115.43 ft^2
Allowable Encroachment Depth :    0.00 ft          Max center channel area  : 466.3156 ft^2

      Natural Cross-Section information for Channel Link77
      ====================================================
       Cross-Section ID (from X1 card) :    10.0 Channel sequence number :    10

Left Overbank Length   :    603.0 ft               Maximum Elevation        :    74.80 ft.
Main Channel Length    :    600.0 ft               Maximum Depth            :    16.39 ft.
Right Overbank Length  :    597.0 ft               Maximum Section Area     : 3157.084 ft^2
                                                   Maximum hydraulic radius :     2.27 ft.
Manning N :      0.080  to Station        4967.8    Max topwidth             :  1378.60 ft.
  "    "  :      0.015  in main Channel             Maximum Wetted Perimeter : 1.39E+03 ft
  "    "  :      0.080  Beyond station    5027.3    Max left bank area       :   707.45 ft^2
                                                   Max right bank area      :  1951.44 ft^2
Allowable Encroachment Depth :    0.00 ft          Max center channel area  : 498.1940 ft^2

*=================================================*
|          Table E1 - Conduit Data                |
*=================================================*
```

Inp Num	Conduit Name	Length (ft)	Conduit Class	Area (ft^2)	Manning Coef.	Max Width (ft)	Depth (ft)	Trapezoid Side Slopes
1	Link1	107.5800	Rectangle	40.0000	0.0130	8.0000	5.0000	
2	L_LJ-H-5	152.9800	Rectangle	40.0000	0.0130	8.0000	5.0000	
3	L_L-H-5	397.6400	Circular	19.6350	0.0130	5.0000	5.0000	
4	L_L-H-5a	280.3400	Rectangle	40.0000	0.0130	8.0000	5.0000	
5	L_LJ-H-7	297.7000	Circular	15.9043	0.0130	4.5000	4.5000	
6	L_LJ-G-3	300.5400	Rectangle	35.0000	0.0130	7.0000	5.0000	
7	L_L-H-7	202.3000	Circular	12.5664	0.0130	4.0000	4.0000	
8	L_L-G-3	463.9300	Rectangle	35.0000	0.0130	7.0000	5.0000	
9	L_L-H-8	230.0000	Circular	9.6211	0.0130	3.5000	3.5000	
10	L_L-G-4	335.3900	Rectangle	35.0000	0.0130	7.0000	5.0000	
11	L_L-H-9	492.9100	Circular	9.6211	0.0130	3.5000	3.5000	
12	L_L-G-5b	106.8400	Rectangle	35.0000	0.0130	7.0000	5.0000	

13	L_L-G-5a	93.1600	Circular	9.6211	0.0130	3.5000	3.5000	
14	L_L-MH-18s	191.1100	Circular	12.5664	0.0130	4.0000	4.0000	
15	L_L-G-5	150.4800	Circular	9.6211	0.0130	3.5000	3.5000	
16	L_L-F-3	467.6550	Rectangle	45.0000	0.0130	9.0000	5.0000	
17	L_L-G-1b	351.8050	Rectangle	100.0000	0.0130	10.0000	10.0000	
18	L_LJ-F-3	399.9180	Rectangle	45.0000	0.0130	9.0000	5.0000	
19	L_L-JG-1a	379.9400	Rectangle	35.0000	0.0130	7.0000	5.0000	
20	L_L-F-2	300.0820	Rectangle	45.0000	0.0130	9.0000	5.0000	
21	L_L-G-1a	382.6540	Rectangle	35.0000	0.0130	7.0000	5.0000	
22	L_L-F-2a	82.4870	Rectangle	45.0000	0.0130	9.0000	5.0000	
23	L_L-G-1	217.9460	Rectangle	35.0000	0.0130	7.0000	5.0000	
24	L_L-F-1	517.5130	Rectangle	35.0000	0.0130	7.0000	5.0000	
25	L_L-COH01	172.0590	Circular	12.5664	0.0130	4.0000	4.0000	
26	L_L-G-2	250.3380	Rectangle	35.0000	0.0130	7.0000	5.0000	
27	L_L-F-1a	183.6710	Rectangle	35.0000	0.0120	7.0000	5.0000	
28	L_L-G-2a	306.0000	Rectangle	35.0000	0.0130	7.0000	5.0000	
29	L_LJ-E-5	416.4730	Rectangle	35.0000	0.0120	7.0000	5.0000	
30	L_LJ-G-3a	357.4750	Rectangle	35.0000	0.0130	7.0000	5.0000	
31	L_L-E-5	399.8570	Rectangle	35.0000	0.0130	7.0000	5.0000	
32	L_L-MH-12s	166.3210	Rectangle	35.0000	0.0130	7.0000	5.0000	
33	L_L-E-4a	210.2310	Rectangle	35.0000	0.0130	7.0000	5.0000	
34	L_L-E-4	139.7690	Rectangle	24.0000	0.0130	6.0000	4.0000	
35	L_L-MH-14s	27.7490	Circular	19.6350	0.0130	5.0000	5.0000	
36	L_L-E-3	385.9470	Rectangle	20.0000	0.0130	5.0000	4.0000	
37	L_L-W43rd	173.8720	Circular	19.6350	0.0130	5.0000	5.0000	
38	L_LJ-E-2	391.7310	Rectangle	16.0000	0.0130	4.0000	4.0000	
39	L_L-E-2	272.3220	Rectangle	16.0000	0.0130	4.0000	4.0000	
40	L_L-E-1	400.1320	Circular	12.5664	0.0130	4.0000	4.0000	
41	L_L-E-1a	400.4060	Circular	7.0686	0.0130	3.0000	3.0000	
42	L_L-H-1	296.3195	Rectangle	81.0000	0.0130	9.0000	9.0000	
43	L_LJ-H-1a	406.4570	Rectangle	72.0000	0.0130	9.0000	8.0000	
44	L_LJ-H-1	396.9450	Rectangle	72.0000	0.0130	9.0000	8.0000	
45	L_L-H-2	196.7470	Rectangle	72.0000	0.0130	9.0000	8.0000	
46	L_L-H-3a	230.0000	Rectangle	72.0000	0.0130	9.0000	8.0000	
47	L_L-H-3b	59.4090	Rectangle	72.0000	0.0130	9.0000	8.0000	
48	L_L-H-3	162.0000	Rectangle	40.0000	0.0130	8.0000	5.0000	
49	L_L-MH-7s	364.9940	Circular	38.4845	0.0130	7.0000	7.0000	
50	L_L-H-4a	268.2970	Rectangle	40.0000	0.0130	8.0000	5.0000	
51	L_L-J-H-4A	125.1810	Rectangle	40.0000	0.0130	8.0000	5.0000	
52	Link52	108.6590	Rectangle	25.0000	0.0130	5.0000	5.0000	
53	L_L-E-11	63.6720	Rectangle	24.0000	0.0130	6.0000	4.0000	
54	L_L-E-10	187.8200	Rectangle	24.0000	0.0130	6.0000	4.0000	
55	L_LJ-E-9	368.2930	Rectangle	24.0000	0.0130	6.0000	4.0000	
56	L_L-E-9	393.8240	Rectangle	24.0000	0.0130	6.0000	4.0000	
57	L_L-E-8	200.0000	Rectangle	20.0000	0.0130	5.0000	4.0000	
58	L_L-E-7	296.0550	Circular	12.5664	0.0130	4.0000	4.0000	
59	L_L-E-7a	342.4810	Circular	9.6211	0.0130	3.5000	3.5000	
60	L_L-E-6	344.0000	Circular	7.0686	0.0130	3.0000	3.0000	
61	L_L-E-515	82.0000	Circular	15.9043	0.0130	4.5000	4.5000	
62	L_LJ-F-5	31.3980	Circular	4.9087	0.0130	2.5000	2.5000	
63	L_L-F-5	126.2320	Circular	12.5664	0.0130	4.0000	4.0000	
64	L_LJ-F-6	373.6200	Circular	9.6211	0.0130	3.5000	3.5000	
65	L_L-F-4	313.0140	Circular	7.0686	0.0130	3.0000	3.0000	
66	L_L-F-6	400.1480	Circular	9.6211	0.0130	3.5000	3.5000	
67	E115-01.3	254.7000	Natural	2565.9140	0.0150	1460.2000	18.4200	
68	E115-03.1	151.0000	Natural	1918.1985	0.0150	964.6000	18.4100	
69	E115-02	307.0000	Natural	1655.1693	0.0150	1025.3000	18.3400	
70	E115-01.1	114.2000	Natural	1655.1693	0.0150	1025.3000	18.3400	
71	Link71	200.0000	Natural	3157.0840	0.0150	1378.6000	16.3900	
72	Link72	778.0000	Natural	3367.3575	0.0150	1698.8200	15.6900	
73	Link73	63.7500	Natural	1525.3775	0.0150	816.3000	14.2300	
74	Link74	428.0000	Natural	1525.3775	0.0150	816.3000	14.2300	
75	Link75	42.5000	Natural	787.7791	0.0150	290.9000	14.2300	
76	Link77	600.0000	Natural	3157.0840	0.0150	1378.6000	16.3900	
77	Link78	295.0000	Circular	12.5664	0.0130	4.0000	4.0000	
78	Link79	220.3600	Rectangle	35.0000	0.0130	7.0000	5.0000	
79	Link81	325.2900	Rectangle	20.0000	0.0130	5.0000	4.0000	

Total length of all conduits .... 21474.6185 feet

==
| If there are messages about (sqrt(g*d)*dt/dx), or |
| the sqrt(wave celerity)*time step/conduit length |
| in the output file all it means is that the |
| program will lower the internal time step to |
| satisfy this condition (explicit condition). |
| You control the actual internal time step by |
| using the minimum courant time step factor in the |
| HYDRAULICS job control. The message put in words |
| states that the smallest conduit with the fastest |
| velocity will control the time step selection. |
| You have further control by using the modify |
| conduit option in the HYDRAULICS Job Control. |
==

Conduit Name	Courant Ratio	
Link1	1.18	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L_LJ-H-5	0.83	
L_L-H-5	0.32	
L_L-H-5a	0.45	
L_LJ-H-7	0.40	
L_LJ-G-3	0.42	
L_L-H-7	0.56	
L_L-G-3	0.27	
L_L-H-8	0.46	
L_L-G-4	0.38	
L_L-H-9	0.22	
L_L-G-5b	1.19	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L_L-G-5a	1.14	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L_L-MH-18s	0.59	
L_L-G-5	0.71	
L_L-F-3	0.27	
L_L-G-1b	0.51	
L_LJ-F-3	0.32	
L_L-JG-1a	0.33	
L_L-F-2	0.42	
L_L-G-1a	0.33	
L_L-F-2a	1.54	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L_L-G-1	0.58	
L_L-F-1	0.25	
L_L-COH01	0.66	
L_L-G-2	0.51	
L_L-F-1a	0.69	
L_L-G-2a	0.41	
L_LJ-E-5	0.30	
L_LJ-G-3a	0.35	
L_L-E-5	0.32	
L_L-MH-12s	0.76	
L_L-E-4a	0.60	
L_L-E-4	0.81	
L_L-MH-14s	4.23	===> Warning ! (sqrt(wave celerity)*time step/conduit length)
L_L-E-3	0.29	
L_L-W43rd	0.73	
L_LJ-E-2	0.29	
L_L-E-2	0.42	
L_L-E-1	0.28	

```
       L_L-E-1a        0.25
         L_L-H-1       0.57
      L_LJ-H-1a        0.39
        L_LJ-H-1       0.40
         L_L-H-2       0.82
        L_L-H-3a       0.70
        L_L-H-3b       2.70  ===> Warning ! (sqrt(wave celerity)*time step/conduit length)
         L_L-H-3       0.78
      L_L-MH-7s        0.41
        L_L-H-4a       0.47
     L_L-J-H-4A        1.01  ===> Warning ! (sqrt(wave celerity)*time step/conduit length)
          Link52       1.17  ===> Warning ! (sqrt(wave celerity)*time step/conduit length)
        L_L-E-11       1.78  ===> Warning ! (sqrt(wave celerity)*time step/conduit length)
        L_L-E-10       0.60
        L_LJ-E-9       0.31
         L_L-E-9       0.29
         L_L-E-8       0.57
         L_L-E-7       0.38
        L_L-E-7a       0.31
         L_L-E-6       0.29
      L_L-E-515        1.47  ===> Warning ! (sqrt(wave celerity)*time step/conduit length)
        L_LJ-F-5       2.86  ===> Warning ! (sqrt(wave celerity)*time step/conduit length)
         L_L-F-5       0.90
       L_LJ-F-6        0.28
         L_L-F-4       0.31
         L_L-F-6       0.27
      E115-01.3        0.25
      E115-03.1        0.47
        E115-02        0.26
      E115-01.1        0.71
         Link71        0.43
         Link72        0.10
         Link73        1.22  ===> Warning ! (sqrt(wave celerity)*time step/conduit length)
         Link74        0.18
         Link75        2.20  ===> Warning ! (sqrt(wave celerity)*time step/conduit length)
         Link77        0.14
         Link78        0.38
         Link79        0.58
         Link81        0.35

*==================*
|  Conduit Volume  |
*==================*

Full pipe or full open conduit volume
Input full depth volume.............    8.1440E+06 cubic feet

===> Warning !! The upstream and downstream junctions for the following conduits
                have been reversed to correspond to the positive flow and decreasing
                slope convention.  A negative flow in the output thus means
                the flow was from your original upstream junction to your original
                downstream junction.  Any initial flow has been multiplied by -1.

                1.  Conduit #...Link75      has been changed.


*=====================================================*
|           Table E3a - Junction Data                 |
*=====================================================*

Inp          Junction      Ground     Crown    Invert    Qinst  Initial  Interface
Num             Name   Elevation Elevation Elevation      cfs Depth-ft   Flow (%)
---  ---------------- ---------- --------- --------- -------- --------  ---------
  1           J-H-4b    71.1800   71.1800   57.8500   0.0000   0.0000   100.0000
  2            J-H-5    70.5700   70.5700   58.0000   0.0000   0.0000   100.0000
  3              H-5    69.3600   69.3600   59.4000   0.0000   0.0000   100.0000
  4             G-3a    70.0300   70.0300   59.8100   0.0000   0.0000   100.0000
  5            J-H-7    69.3600   69.3600   60.1900   0.0000   0.0000   100.0000
  6            J-G-3    71.0800   71.0800   60.1100   0.0000   0.0000   100.0000
  7              H-7    69.3600   69.3600   60.8900   0.0000   0.0000   100.0000
  8              G-3    69.3600   69.3600   60.5700   0.0000   0.0000   100.0000
  9              H-8    69.3600   69.3600   61.6200   0.0000   0.0000   100.0000
 10              G-4    69.3600   69.3600   60.9000   0.0000   0.0000   100.0000
 11              H-9    69.3600   69.3600   62.1100   0.0000   0.0000   100.0000
 12             G-5b    69.3600   69.3600   61.0000   0.0000   0.0000   100.0000
 13             G-5a    69.3600   69.3600   62.5900   0.0000   0.0000   100.0000
 14           MH-18s    68.3500   68.3500   62.4200   0.0000   0.0000   100.0000
 15              G-5    69.3600   69.3600   62.7400   0.0000   0.0000   100.0000
 16        BRCKH01.0    70.7400   69.5800   51.2400   0.0000   0.0000   100.0000
 17              F-3    69.3600   64.5800   59.5800   0.0000   0.0000   100.0000
 18             G-1b    69.3600   69.3600   54.1100   0.0000   0.0000   100.0000
 19            J-F-3    69.6900   69.6900   59.9800   0.0000   0.0000   100.0000
 20           J-G-1a    69.5600   69.5600   57.9100   0.0000   0.0000   100.0000
 21              F-2    69.3600   65.2800   60.2800   0.0000   0.0000   100.0000
 22             G-1a    69.3600   69.3600   58.2900   0.0000   0.0000   100.0000
 23             F-2a    69.3600   69.3600   60.3600   0.0000   0.0000   100.0000
 24              G-1    69.3600   69.3600   58.5100   0.0000   0.0000   100.0000
 25              F-1    69.5400   65.8800   60.8800   0.0000   0.0000   100.0000
 26            COH01    68.0200   66.1410   62.1410   0.0000   0.0000   100.0000
 27              G-2    69.3600   69.3600   58.7600   0.0000   0.0000   100.0000
 28             F-1a    70.2400   70.2400   61.0600   0.0000   0.0000   100.0000
 29             G-2a    69.3600   69.3600   59.0700   0.0000   0.0000   100.0000
 30            J-E-5    71.8200   71.8200   61.4800   0.0000   0.0000   100.0000
 31           J-G-3a    70.7500   70.7500   59.4200   0.0000   0.0000   100.0000
 32              E-5    71.4800   66.8800   61.8800   0.0000   0.0000   100.0000
 33           MH-12s    70.8700   70.8700   59.5900   0.0000   0.0000   100.0000
 34             E-4a    71.8600   71.8600   62.0900   0.0000   0.0000   100.0000
 35              E-4    72.1100   69.0000   65.0000   0.0000   0.0000   100.0000
 36           MH-14s    71.3700   71.3700   63.3900   0.0000   0.0000   100.0000
 37              E-3    72.8100   72.8100   65.3860   0.0000   0.0000   100.0000
 38            W43rd    72.5700   68.7380   63.7380   0.0000   0.0000   100.0000
 39            J-E-2    74.3800   74.3800   66.2000   0.0000   0.0000   100.0000
 40              E-2    74.5300   70.4700   66.4700   0.0000   0.0000   100.0000
 41              E-1    74.4400   74.4400   66.8700   0.0000   0.0000   100.0000
 42             E-1a    75.8400   75.8400   68.2700   0.0000   0.0000   100.0000
 43        BRCKH01.1    71.0000   71.0000   51.2700   0.0000   0.0000   100.0000
 44              H-1    69.4200   69.4200   54.4300   0.0000   0.0000   100.0000
 45            J-H-1    71.4600   71.4600   54.8400   0.0000   0.0000   100.0000
 46            J-H-2    70.2700   70.2700   55.2400   0.0000   0.0000   100.0000
 47              H-2    69.3600   69.3600   55.4400   0.0000   0.0000   100.0000
 48             H-3a    69.3600   69.3600   55.6700   0.0000   0.0000   100.0000
 49             H-3b    69.3600   69.3600   55.7300   0.0000   0.0000   100.0000
 50              H-3    69.3600   69.3600   56.7000   0.0000   0.0000   100.0000
 51            MH-7s    71.6300   71.6300   56.1100   0.0000   0.0000   100.0000
 52             H-4a    69.3600   69.3600   56.9680   0.0000   0.0000   100.0000
 53           J-H-4a    69.9800   69.9800   57.0900   0.0000   0.0000   100.0000
 54           DET-4C    72.5000   72.5000   57.2010   0.0000   0.0000   100.0000
 55         E11504.4    75.1600   74.7200   58.3300   0.0000   0.0000   100.0000
 56             E-11    71.2700   67.8700   63.8700   0.0000   0.0000   100.0000
 57             E-10    71.9300   71.9300   64.0500   0.0000   0.0000   100.0000
 58            J-E-9    72.7700   68.4200   64.4200   0.0000   0.0000   100.0000
 59              E-9    72.1000   68.8200   64.8200   0.0000   0.0000   100.0000
 60              E-8    72.7700   69.0200   65.0200   0.0000   0.0000   100.0000
 61              E-7    74.0900   74.0900   65.3200   0.0000   0.0000   100.0000
 62             E-7a    74.5300   69.6600   66.1600   0.0000   0.0000   100.0000
 63              E-6    76.0100   70.0000   67.0000   0.0000   0.0000   100.0000
 64         E5150100    70.0000   60.9300   56.4300   0.0000   0.0000   100.0000
 65         JE5150100    70.3900   70.3900   56.5900   0.0000   0.0000   100.0000
```

66	J-F-5	70.1200	70.1200	56.6530	0.0000	0.0000	100.0000
67	F-5	69.6700	66.6760	62.6760	0.0000	0.0000	100.0000
68	J-F-6	71.4200	71.4200	62.5200	0.0000	0.0000	100.0000
69	F-4	71.0600	66.9870	63.9870	0.0000	0.0000	100.0000
70	F-6	69.4200	66.4200	62.9200	0.0000	0.0000	100.0000
71	BRCKH01.3	72.2000	70.0000	51.5800	0.0000	0.0000	100.0000
72	BRCKHO1.2	72.8000	71.5200	51.3900	0.0000	0.0000	100.0000
73	BRCKH00.1	69.7000	69.3000	50.9600	0.0000	0.0000	100.0000
74	E11504.3	75.2300	74.8700	58.4800	0.0000	0.0000	100.0000
75	E11504.5	75.1600	74.4100	58.0100	0.0000	0.0000	100.0000
76	E11504.6	72.6200	72.2500	58.0200	0.0000	0.0000	100.0000
77	E11504.7	72.6100	71.5800	57.3400	0.0000	0.0000	100.0000
78	E11504.8	73.2900	72.9200	57.2300	0.0000	0.0000	100.0000

Table E3b - Junction Data

Inp Num	Junction Name	X Coord.	Y Coord.	Type of Manhole	Type of Inlet	Maximum Capacity	Pavement Shape	Pavement Slope
1	J-H-4b	3.087521E+06	13.86499E+06	F	Normal		0	0.0000
2	J-H-5	3.087631E+06	13.86488E+06	F	Normal		0	0.0000
3	H-5	3.087911E+06	13.86460E+06	F	Normal		0	0.0000
4	G-3a	3.087853E+06	13.86505E+06	F	Normal		0	0.0000
5	J-H-7	3.088122E+06	13.86439E+06	F	Normal		0	0.0000
6	J-G-3	3.088069E+06	13.86484E+06	F	Normal		0	0.0000
7	H-7	3.088264E+06	13.86424E+06	F	Normal		0	0.0000
8	G-3	3.088404E+06	13.86452E+06	F	Normal		0	0.0000
9	H-8	3.088427E+06	13.86408E+06	F	Normal		0	0.0000
10	G-4	3.088641E+06	13.86428E+06	F	Normal		0	0.0000
11	H-9	3.088776E+06	13.86373E+06	F	Normal		0	0.0000
12	G-5b	3.088717E+06	13.86421E+06	F	Normal		0	0.0000
13	G-5a	3.088783E+06	13.86414E+06	F	Normal		0	0.0000
14	MH-18s	3.088910E+06	13.86421E+06	F	Normal		0	0.0000
15	G-5	3.088897E+06	13.86404E+06	F	Normal		0	0.0000
16	BRCKH01.0	3.085980E+06	13.86690E+06	No P	Normal		0	0.0000
17	F-3	3.085650E+06	13.86723E+06	No P	Normal		0	0.0000
18	G-1b	3.086229E+06	13.86665E+06	F	Normal		0	0.0000
19	J-F-3	3.085368E+06	13.86751E+06	F	Normal		0	0.0000
20	J-G-1a	3.086497E+06	13.86638E+06	F	Normal		0	0.0000
21	F-2	3.085156E+06	13.86773E+06	No P	Normal		0	0.0000
22	G-1a	3.086767E+06	13.86611E+06	F	Normal		0	0.0000
23	F-2a	3.085097E+06	13.86778E+06	F	Normal		0	0.0000
24	G-1	3.086921E+06	13.86596E+06	F	Normal		0	0.0000
25	F-1	3.084732E+06	13.86815E+06	No P	Normal		0	0.0000
26	COH01	3.085217E+06	13.86791E+06	No P	Normal		0	0.0000
27	G-2	3.087107E+06	13.86579E+06	F	Normal		0	0.0000
28	F-1a	3.084602E+06	13.86828E+06	F	Normal		0	0.0000
29	G-2a	3.087323E+06	13.86557E+06	F	Normal		0	0.0000
30	J-E-5	3.084308E+06	13.86858E+06	F	Normal		0	0.0000
31	J-G-3a	3.087567E+06	13.86531E+06	F	Normal		0	0.0000
32	E-5	3.084026E+06	13.86886E+06	No P	Normal		0	0.0000
33	MH-12s	3.087690E+06	13.86520E+06	F	Normal		0	0.0000
34	E-4a	3.083877E+06	13.86901E+06	F	Normal		0	0.0000
35	E-4	3.083779E+06	13.86911E+06	No P	Normal		0	0.0000
36	MH-14s	3.083902E+06	13.86902E+06	F	Normal		0	0.0000
37	E-3	3.083506E+06	13.86938E+06	F	Normal		0	0.0000
38	W43rd	3.084076E+06	13.86901E+06	No P	Normal		0	0.0000
39	J-E-2	3.083230E+06	13.86966E+06	F	Normal		0	0.0000
40	E-2	3.083037E+06	13.86985E+06	No P	Normal		0	0.0000
41	E-1	3.082755E+06	13.87013E+06	F	Normal		0	0.0000
42	E-1a	3.082472E+06	13.87042E+06	F	Normal		0	0.0000
43	BRCKH01.1	3.085769E+06	13.86669E+06	F	Normal		0	0.0000
44	H-1	3.085998E+06	13.86646E+06	F	Normal		0	0.0000
45	J-H-1	3.086288E+06	13.86617E+06	F	Normal		0	0.0000
46	J-H-2	3.086563E+06	13.86588E+06	F	Normal		0	0.0000
47	H-2	3.086698E+06	13.86574E+06	F	Normal		0	0.0000
48	H-3a	3.086860E+06	13.86558E+06	F	Normal		0	0.0000
49	H-3b	3.086910E+06	13.86555E+06	F	Normal		0	0.0000
50	H-3	3.087025E+06	13.86543E+06	F	Normal		0	0.0000
51	MH-7s	3.086845E+06	13.86519E+06	F	Normal		0	0.0000
52	H-4a	3.087217E+06	13.86525E+06	F	Normal		0	0.0000
53	J-H-4a	3.087312E+06	13.86516E+06	F	Normal		0	0.0000
54	DET-4C	3.087252E+06	13.86507E+06	F	Normal		0	0.0000
55	E11504.4	3.084146E+06	13.86819E+06	No P	Normal		0	0.0000
56	E-11	3.084165E+06	13.86830E+06	No P	Normal		0	0.0000
57	E-10	3.084032E+06	13.86843E+06	F	Normal		0	0.0000
58	J-E-9	3.083764E+06	13.86869E+06	No P	Normal		0	0.0000
59	E-9	3.083486E+06	13.86897E+06	No P	Normal		0	0.0000
60	E-8	3.083344E+06	13.86911E+06	No P	Normal		0	0.0000
61	E-7	3.083135E+06	13.86932E+06	F	Normal		0	0.0000
62	E-7a	3.082893E+06	13.86956E+06	No P	Normal		0	0.0000
63	E-6	3.082651E+06	13.86980E+06	No P	Normal		0	0.0000
64	E5150100	3.084862E+06	13.86747E+06	No P	Normal		0	0.0000
65	JE5150100	3.084867E+06	13.86755E+06	F	Normal		0	0.0000
66	J-F-5	3.084889E+06	13.86757E+06	F	Normal		0	0.0000
67	F-5	3.084800E+06	13.86766E+06	No P	Normal		0	0.0000
68	J-F-6	3.085153E+06	13.86731E+06	F	Normal		0	0.0000
69	F-4	3.084579E+06	13.86789E+06	No P	Normal		0	0.0000
70	F-6	3.085436E+06	13.86703E+06	No P	Normal		0	0.0000
71	BRCKH01.3	3.085445E+06	13.86640E+06	No P	Normal		0	0.0000
72	BRCKHO1.2	3.085637E+06	13.86658E+06	No P	Normal		0	0.0000
73	BRCKH00.1	3.086225E+06	13.86710E+06	No P	Normal		0	0.0000
74	E11504.3	3.084033E+06	13.86822E+06	No P	Normal		0	0.0000
75	E11504.5	3.084225E+06	13.86805E+06	No P	Normal		0	0.0000
76	E11504.6	3.084347E+06	13.86790E+06	No P	Normal		0	0.0000
77	E11504.7	3.084726E+06	13.86749E+06	No P	Normal		0	0.0000
78	E11504.8	3.085054E+06	13.86689E+06	No P	Normal		0	0.0000

Table E4 - Conduit Connectivity

Input Number	Conduit Name	Upstream Node	Downstream Node	Upstream Elevation	Downstream Elevation	
1	Link1	J-H-4b	DET-4C	57.8500	57.7400	No Design
2	L_LJ-H-5	J-H-5	J-H-4b	58.0000	57.8500	No Design
3	L_L-H-5	H-5	J-H-5	59.4000	59.0100	No Design
4	L_L-H-5a	G-3a	J-H-5	59.8100	58.0000	No Design
5	L_LJ-H-7	J-H-7	H-5	60.1900	59.9000	No Design
6	L_LJ-G-3	J-G-3	G-3a	60.1100	59.8100	No Design
7	L_L-H-7	H-7	J-H-7	60.8900	60.6900	No Design
8	L_L-G-3	G-3	J-G-3	60.5700	60.1100	No Design
9	L_L-H-8	H-8	H-7	61.6200	61.3900	No Design
10	L_L-G-4	G-4	G-3	60.9000	60.5700	No Design
11	L_L-H-9	H-9	H-8	62.1100	61.6200	No Design
12	L_L-G-5b	G-5b	G-4	61.0000	60.9000	No Design
13	L_L-G-5a	G-5a	G-5b	62.5900	62.5000	No Design
14	L_L-MH-18s	MH-18s	G-5b	62.4200	61.9170	No Design
15	L_L-G-5	G-5	G-5a	62.7400	62.5900	No Design
16	L_L-F-3	F-3	BRCKH01.0	59.5800	59.1100	No Design
17	L_L-G-1b	G-1b	BRCKH01.0	54.1100	53.7580	No Design
18	L_LJ-F-3	J-F-3	F-3	59.9800	59.5800	No Design
19	L_L-JG-1a	J-G-1a	G-1b	57.9100	57.5300	No Design

20	L_L-F-2	F-2	J-F-3	60.2800	59.9800	No	Design
21	L_L-G-1a	G-1a	J-G-1a	58.2900	57.9100	No	Design
22	L_L-F-2a	F-2a	F-2	60.3600	60.2800	No	Design
23	L_L-G-1	G-1	G-1a	58.5100	58.2900	No	Design
24	L_L-F-1	F-1	F-2a	60.8800	60.3600	No	Design
25	L_L-COH01	COH01	F-2a	62.1410	61.7970	No	Design
26	L_L-G-2	G-2	G-1	58.7600	58.5100	No	Design
27	L_L-F-1a	F-1a	F-1	61.0600	60.8800	No	Design
28	L_L-G-2a	G-2a	G-2	59.0700	58.7600	No	Design
29	L_LJ-E-5	J-E-5	F-1a	61.4800	61.0600	No	Design
30	L_LJ-G-3a	J-G-3a	G-2a	59.4200	59.0700	No	Design
31	L_L-E-5	E-5	J-E-5	61.8800	61.4800	No	Design
32	L_L-MH-12s	MH-12s	J-G-3a	59.5900	59.4200	No	Design
33	L_L-E-4a	E-4a	E-5	62.0900	61.8800	No	Design
34	L_L-E-4	E-4	E-4a	65.0000	64.8600	No	Design
35	L_L-MH-14s	MH-14s	E-4a	63.3900	63.3660	No	Design
36	L_L-E-3	E-3	E-4	65.3860	65.0000	No	Design
37	L_L-W43rd	W43rd	MH-14s	63.7380	63.3900	No	Design
38	L_LJ-E-2	J-E-2	E-3	66.2010	65.8100	No	Design
39	L_L-E-2	E-2	J-E-2	66.4700	66.2000	No	Design
40	L_L-E-1	E-1	E-2	66.8700	66.4700	No	Design
41	L_L-E-1a	E-1a	E-1	68.2700	67.8700	No	Design
42	L_L-H-1	H-1	G-1b	54.4300	54.1100	No	Design
43	L_LJ-H-1a	J-H-1	H-1	54.8400	54.4300	No	Design
44	L_LJ-H-1	J-H-2	J-H-1	55.2400	54.8400	No	Design
45	L_L-H-2	H-2	J-H-2	55.4400	55.2400	No	Design
46	L_L-H-3a	H-3a	H-2	55.6700	55.4400	No	Design
47	L_L-H-3b	H-3b	H-3a	55.7300	55.6700	No	Design
48	L_L-H-3	H-3	H-3b	56.7120	56.5500	No	Design
49	L_L-MH-7s	MH-7s	H-3b	56.1100	55.7300	No	Design
50	L_L-H-4a	H-4a	H-3	56.9680	56.7000	No	Design
51	L_L-J-H-4A	J-H-4a	H-4a	57.0950	56.9700	No	Design
52	Link52	DET-4C	J-H-4a	57.2010	57.0900	No	Design
53	L_L-E-11	E-11	E11504.4	63.8700	63.8000	No	Design
54	L_L-E-10	E-10	E-11	64.0500	63.8700	No	Design
55	L_LJ-E-9	J-E-9	E-10	64.4200	64.0500	No	Design
56	L_L-E-9	E-9	J-E-9	64.8200	64.4200	No	Design
57	L_L-E-8	E-8	E-9	65.0200	64.8200	No	Design
58	L_L-E-7	E-7	E-8	65.3200	65.0200	No	Design
59	L_L-E-7a	E-7a	E-7	66.1600	65.8200	No	Design
60	L_L-E-6	E-6	E-7a	67.0000	66.6600	No	Design
61	L_L-E-515	JE5150100	E5150100	56.5940	56.4300	No	Design
62	L_LJ-F-5	J-F-5	JE5150100	56.6530	56.5900	No	Design
63	L_L-F-5	F-5	J-F-5	62.6760	62.5500	No	Design
64	L_LJ-F-6	J-F-6	J-F-5	62.5200	62.1200	No	Design
65	L_L-F-4	F-4	F-5	63.9870	63.6740	No	Design
66	L_L-F-6	F-6	J-F-6	62.9200	62.5200	No	Design
67	E115-01.3	BRCKH01.3	BRCKHO1.2	51.5800	51.3900	No	Design
68	E115-03.1	BRCKHO1.2	BRCKH01.1	51.3900	51.2700	No	Design
69	E115-02	BRCKH01.1	BRCKH01.0	51.2700	51.2400	No	Design
70	E115-01.1	BRCKH01.0	BRCKH00.1	51.2400	50.9600	No	Design
71	Link71	E11504.3	E11504.4	58.4800	58.3300	No	Design
72	Link72	E11504.8	BRCKHO1.2	57.2300	55.8300	No	Design
73	Link73	E11504.7	E11504.8	57.3500	57.2300	No	Design
74	Link74	E11504.6	E11504.7	58.0200	57.3400	No	Design
75	Link75	E11504.6	E11504.5	58.0200	58.0100	No	Design
76	Link77	E11504.4	E11504.5	58.3300	58.0200	No	Design
77	Link78	F-2a	J-F-5	61.7970	61.2070	No	Design
78	Link79	G-3a	MH-12s	59.8100	59.5900	No	Design
79	Link81	E-4	E-9	65.0000	64.8200	No	Design

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| Storage Junction Data |
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STORAGE JUNCTION NUMBER OR NAME	JUNCTION TYPE	MAXIMUM OR CONSTANT SURFACE AREA (FT2)	PEAK OR CONSTANT VOLUME (CUBIC FEET)	CROWN ELEVATION (FT)	DEPTH STARTS FROM
G-3a	Stage/Area	16683.4800	160258.5994	70.0300	Spill Crest
H-7	Stage/Area	16683.4800	131062.5094	69.3600	Spill Crest
G-4	Stage/Area	16683.4800	130895.6746	69.3600	Spill Crest
H-9	Stage/Area	16683.4800	110708.6638	69.3600	Spill Crest
G-5a	Stage/Area	16683.4800	102700.5934	69.3600	Spill Crest
MH-18s	Stage/Area	651657.6000	1.727759E+06	68.3500	Spill Crest
F-3	Stage/Area	16683.4800	152917.8682	69.3600	Spill Crest
G-1b	Stage/Area	16683.4800	244176.5038	69.3600	Spill Crest
J-G-1a	Stage/Area	16683.4800	184115.9758	69.5600	Spill Crest
F-2	Stage/Area	16683.4800	141239.4322	69.3600	Spill Crest
G-1	Stage/Area	16683.4800	170769.1918	69.3600	Spill Crest
F-1	Stage/Area	16683.4800	134232.3706	69.5400	Spill Crest
COH01	Stage/Area	202554.0000	940698.2049	68.0200	Spill Crest
G-2	Stage/Area	16683.4800	166598.3218	69.3600	Spill Crest
E-5	Stage/Area	16683.4800	149914.8418	71.4800	Spill Crest
MH-12s	Stage/Area	16683.4800	177943.0882	70.8700	Spill Crest
E-4	Stage/Area	16683.4800	108372.9766	72.1100	Spill Crest
W43rd	Stage/Area	67953.6000	556007.7226	72.5700	Spill Crest
E-2	Stage/Area	16683.4800	124222.2826	74.5300	Spill Crest
H-1	Stage/Area	16683.4800	239838.7990	69.4200	Spill Crest
J-H-1	Stage/Area	16683.4800	267032.8714	71.4600	Spill Crest
H-3a	Stage/Area	16683.4800	218150.2750	69.3600	Spill Crest
H-3	Stage/Area	16683.4800	200966.2906	69.3600	Spill Crest
MH-7s	Stage/Area	4.449654E+06	64.263774E+06	71.6300	Spill Crest
DET-4C	Stage/Area	254826.0000	2.981324E+06	72.5000	Node Invert
E-11	Stage/Area	16683.4800	113211.1858	71.2700	Spill Crest
E-9	Stage/Area	16683.4800	111209.1682	72.1000	Spill Crest
E-8	Stage/Area	16683.4800	119050.4038	72.7700	Spill Crest
F-5	Stage/Area	16683.4800	106437.6929	69.6700	Spill Crest
F-6	Stage/Area	16683.4800	98196.0538	69.4200	Spill Crest

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| Variable storage data for node | G-3a
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	59.8100	0.0000	4.3560	0.0000	0.0001	0.0000
2	59.8350	0.0250	150.8265	1.5068	0.0035	0.0000
3	59.8600	0.0500	297.2970	7.0058	0.0068	0.0002
4	59.8850	0.0750	443.7675	16.2082	0.0102	0.0004
5	59.9100	0.1000	590.2380	29.0898	0.0135	0.0007
6	59.9350	0.1250	736.7085	45.6428	0.0169	0.0010
7	59.9600	0.1500	883.1790	65.8638	0.0203	0.0015
8	59.9850	0.1750	1029.6495	89.7507	0.0236	0.0021
9	60.0100	0.2000	1176.1200	117.3026	0.0270	0.0027
10	60.0350	0.2250	1475.5950	150.3783	0.0339	0.0035
11	60.0600	0.2500	1775.0700	190.9540	0.0408	0.0044
12	60.0850	0.2750	2074.5450	239.0256	0.0476	0.0055
13	60.1100	0.3000	2374.0200	294.5906	0.0545	0.0068
14	60.1350	0.3250	2673.4950	357.6475	0.0614	0.0082
15	60.1600	0.3500	2972.9700	428.1952	0.0683	0.0098
16	60.1850	0.3750	3272.4450	506.2330	0.0751	0.0116
17	60.2100	0.4000	3571.9200	591.7602	0.0820	0.0136
18	60.2225	0.4125	3773.3850	637.6626	0.0866	0.0146
19	60.2350	0.4250	3974.8500	686.0836	0.0912	0.0158
20	60.2475	0.4375	4176.3150	737.0232	0.0959	0.0169
21	60.2600	0.4500	4377.7800	790.4814	0.1005	0.0181

22	60.2725	0.4625	4579.2450	846.4581	0.1051	0.0194
23	60.2850	0.4750	4780.7100	904.9533	0.1098	0.0208
24	60.2975	0.4875	4982.1750	965.9670	0.1144	0.0222
25	60.3100	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	60.3225	0.5125	5439.5550	1095.8877	0.1249	0.0252
27	60.3350	0.5250	5695.4700	1165.4755	0.1308	0.0268
28	60.3475	0.5375	5951.3850	1238.2625	0.1366	0.0284
29	60.3600	0.5500	6207.3000	1314.2486	0.1425	0.0302
30	60.3725	0.5625	6463.2150	1393.4340	0.1484	0.0320
31	60.3850	0.5750	6719.1300	1475.8184	0.1542	0.0339
32	60.3975	0.5875	6975.0450	1561.4020	0.1601	0.0358
33	60.4100	0.6000	7230.9600	1650.1848	0.1660	0.0379
34	60.4350	0.6250	7824.4650	1838.3288	0.1796	0.0422
35	60.4600	0.6500	8417.9700	2041.3141	0.1932	0.0469
36	60.4850	0.6750	9011.4750	2259.1400	0.2069	0.0519
37	60.5100	0.7000	9604.9800	2491.8063	0.2205	0.0572
38	60.5350	0.7250	10198.4850	2739.3125	0.2341	0.0629
39	60.5600	0.7500	10791.9900	3001.6585	0.2478	0.0689
40	60.5850	0.7750	11385.4950	3278.8440	0.2614	0.0753
41	60.6100	0.8000	11979.0000	3570.8687	0.2750	0.0820
42	60.6350	0.8250	12567.0600	3877.6651	0.2885	0.0890
43	60.6600	0.8500	13155.1200	4199.1644	0.3020	0.0964
44	60.6850	0.8750	13743.1800	4535.3663	0.3155	0.1041
45	60.7100	0.9000	14331.2400	4886.2709	0.3290	0.1122
46	60.7350	0.9250	14919.3000	5251.8780	0.3425	0.1206
47	60.7600	0.9500	15507.3600	5632.1876	0.3560	0.1293
48	60.7850	0.9750	16095.4200	6027.1995	0.3695	0.1384
49	60.8100	1.0000	16683.4800	6436.9138	0.3830	0.1478
50	70.0300	10.2200	16683.4800	160258.5994	0.3830	3.6790

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| Variable storage data for node | H-7
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	60.8900	0.0000	4.3560	0.0000	0.0001	0.0000
2	60.9150	0.0250	150.8265	1.5068	0.0035	0.0000
3	60.9400	0.0500	297.2970	7.0058	0.0068	0.0002
4	60.9650	0.0750	443.7675	16.2082	0.0102	0.0004
5	60.9900	0.1000	590.2380	29.0898	0.0135	0.0007
6	61.0150	0.1250	736.7085	45.6428	0.0169	0.0010
7	61.0400	0.1500	883.1790	65.8638	0.0203	0.0015
8	61.0650	0.1750	1029.6495	89.7507	0.0236	0.0021
9	61.0900	0.2000	1176.1200	117.3026	0.0270	0.0027
10	61.1150	0.2250	1475.5950	150.3783	0.0339	0.0035
11	61.1400	0.2500	1775.0700	190.9540	0.0408	0.0044
12	61.1650	0.2750	2074.5450	239.0256	0.0476	0.0055
13	61.1900	0.3000	2374.0200	294.5906	0.0545	0.0068
14	61.2150	0.3250	2673.4950	357.6475	0.0614	0.0082
15	61.2400	0.3500	2972.9700	428.1952	0.0683	0.0098
16	61.2650	0.3750	3272.4450	506.2330	0.0751	0.0116
17	61.2900	0.4000	3571.9200	591.7602	0.0820	0.0136
18	61.3025	0.4125	3773.3850	637.6626	0.0866	0.0146
19	61.3150	0.4250	3974.8500	686.0836	0.0912	0.0158
20	61.3275	0.4375	4176.3150	737.0232	0.0959	0.0169
21	61.3400	0.4500	4377.7800	790.4814	0.1005	0.0181
22	61.3525	0.4625	4579.2450	846.4581	0.1051	0.0194
23	61.3650	0.4750	4780.7100	904.9533	0.1098	0.0208
24	61.3775	0.4875	4982.1750	965.9670	0.1144	0.0222
25	61.3900	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	61.4025	0.5125	5439.5550	1095.8877	0.1249	0.0252
27	61.4150	0.5250	5695.4700	1165.4755	0.1308	0.0268
28	61.4275	0.5375	5951.3850	1238.2625	0.1366	0.0284
29	61.4400	0.5500	6207.3000	1314.2486	0.1425	0.0302
30	61.4525	0.5625	6463.2150	1393.4340	0.1484	0.0320
31	61.4650	0.5750	6719.1300	1475.8184	0.1542	0.0339
32	61.4775	0.5875	6975.0450	1561.4020	0.1601	0.0358
33	61.4900	0.6000	7230.9600	1650.1848	0.1660	0.0379
34	61.5150	0.6250	7824.4650	1838.3288	0.1796	0.0422
35	61.5400	0.6500	8417.9700	2041.3141	0.1932	0.0469
36	61.5650	0.6750	9011.4750	2259.1400	0.2069	0.0519
37	61.5900	0.7000	9604.9800	2491.8063	0.2205	0.0572
38	61.6150	0.7250	10198.4850	2739.3125	0.2341	0.0629
39	61.6400	0.7500	10791.9900	3001.6585	0.2478	0.0689
40	61.6650	0.7750	11385.4950	3278.8440	0.2614	0.0753
41	61.6900	0.8000	11979.0000	3570.8687	0.2750	0.0820
42	61.7150	0.8250	12567.0600	3877.6651	0.2885	0.0890
43	61.7400	0.8500	13155.1200	4199.1644	0.3020	0.0964
44	61.7650	0.8750	13743.1800	4535.3663	0.3155	0.1041
45	61.7900	0.9000	14331.2400	4886.2709	0.3290	0.1122
46	61.8150	0.9250	14919.3000	5251.8780	0.3425	0.1206
47	61.8400	0.9500	15507.3600	5632.1876	0.3560	0.1293
48	61.8650	0.9750	16095.4200	6027.1995	0.3695	0.1384
49	61.8900	1.0000	16683.4800	6436.9138	0.3830	0.1478
50	69.3600	8.4700	16683.4800	131062.5094	0.3830	3.0088

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| Variable storage data for node | G-4
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	60.9000	0.0000	4.3560	0.0000	0.0001	0.0000
2	60.9250	0.0250	150.8265	1.5068	0.0035	0.0000
3	60.9500	0.0500	297.2970	7.0058	0.0068	0.0002
4	60.9750	0.0750	443.7675	16.2082	0.0102	0.0004
5	61.0000	0.1000	590.2380	29.0898	0.0135	0.0007
6	61.0250	0.1250	736.7085	45.6428	0.0169	0.0010
7	61.0500	0.1500	883.1790	65.8638	0.0203	0.0015
8	61.0750	0.1750	1029.6495	89.7507	0.0236	0.0021
9	61.1000	0.2000	1176.1200	117.3026	0.0270	0.0027
10	61.1250	0.2250	1475.5950	150.3783	0.0339	0.0035
11	61.1500	0.2500	1775.0700	190.9540	0.0408	0.0044
12	61.1750	0.2750	2074.5450	239.0256	0.0476	0.0055
13	61.2000	0.3000	2374.0200	294.5906	0.0545	0.0068
14	61.2250	0.3250	2673.4950	357.6475	0.0614	0.0082
15	61.2500	0.3500	2972.9700	428.1952	0.0683	0.0098
16	61.2750	0.3750	3272.4450	506.2330	0.0751	0.0116
17	61.3000	0.4000	3571.9200	591.7602	0.0820	0.0136
18	61.3125	0.4125	3773.3850	637.6626	0.0866	0.0146
19	61.3250	0.4250	3974.8500	686.0836	0.0912	0.0158
20	61.3375	0.4375	4176.3150	737.0232	0.0959	0.0169
21	61.3500	0.4500	4377.7800	790.4814	0.1005	0.0181
22	61.3625	0.4625	4579.2450	846.4581	0.1051	0.0194
23	61.3750	0.4750	4780.7100	904.9533	0.1098	0.0208
24	61.3875	0.4875	4982.1750	965.9670	0.1144	0.0222
25	61.4000	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	61.4125	0.5125	5439.5550	1095.8877	0.1249	0.0252
27	61.4250	0.5250	5695.4700	1165.4755	0.1308	0.0268
28	61.4375	0.5375	5951.3850	1238.2625	0.1366	0.0284
29	61.4500	0.5500	6207.3000	1314.2486	0.1425	0.0302
30	61.4625	0.5625	6463.2150	1393.4340	0.1484	0.0320
31	61.4750	0.5750	6719.1300	1475.8184	0.1542	0.0339
32	61.4875	0.5875	6975.0450	1561.4020	0.1601	0.0358
33	61.5000	0.6000	7230.9600	1650.1848	0.1660	0.0379
34	61.5250	0.6250	7824.4650	1838.3288	0.1796	0.0422
35	61.5500	0.6500	8417.9700	2041.3141	0.1932	0.0469

36	61.5750	0.6750	9011.4750	2259.1400	0.2069	0.0519
37	61.6000	0.7000	9604.9800	2491.8063	0.2205	0.0572
38	61.6250	0.7250	10198.4850	2739.3125	0.2341	0.0629
39	61.6500	0.7500	10791.9900	3001.6585	0.2478	0.0689
40	61.6750	0.7750	11385.4950	3278.8440	0.2614	0.0753
41	61.7000	0.8000	11979.0000	3570.8687	0.2750	0.0820
42	61.7250	0.8250	12567.0600	3877.6651	0.2885	0.0890
43	61.7500	0.8500	13155.1200	4199.1644	0.3020	0.0964
44	61.7750	0.8750	13743.1800	4535.3663	0.3155	0.1041
45	61.8000	0.9000	14331.2400	4886.2709	0.3290	0.1122
46	61.8250	0.9250	14919.3000	5251.8780	0.3425	0.1206
47	61.8500	0.9500	15507.3600	5632.1876	0.3560	0.1293
48	61.8750	0.9750	16095.4200	6027.1995	0.3695	0.1384
49	61.9000	1.0000	16683.4800	6436.9138	0.3830	0.1478
50	69.3600	8.4600	16683.4800	130895.6746	0.3830	3.0050

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| Variable storage data for node | H-9
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	62.1100	0.0000	4.3560	0.0000	0.0001	0.0000
2	62.1350	0.0250	150.8265	1.5068	0.0035	0.0000
3	62.1600	0.0500	297.2970	7.0058	0.0068	0.0002
4	62.1850	0.0750	443.7675	16.2082	0.0102	0.0004
5	62.2100	0.1000	590.2380	29.0898	0.0135	0.0007
6	62.2350	0.1250	736.7085	45.6428	0.0169	0.0010
7	62.2600	0.1500	883.1790	65.8638	0.0203	0.0015
8	62.2850	0.1750	1029.6495	89.7507	0.0236	0.0021
9	62.3100	0.2000	1176.1200	117.3026	0.0270	0.0027
10	62.3350	0.2250	1475.5950	150.3783	0.0339	0.0035
11	62.3600	0.2500	1775.0700	190.9540	0.0408	0.0044
12	62.3850	0.2750	2074.5450	239.0256	0.0476	0.0055
13	62.4100	0.3000	2374.0200	294.5906	0.0545	0.0068
14	62.4350	0.3250	2673.4950	357.6475	0.0614	0.0082
15	62.4600	0.3500	2972.9700	428.1952	0.0683	0.0098
16	62.4850	0.3750	3272.4450	506.2330	0.0751	0.0116
17	62.5100	0.4000	3571.9200	591.7602	0.0820	0.0136
18	62.5225	0.4125	3773.3850	637.6626	0.0866	0.0146
19	62.5350	0.4250	3974.8500	686.0836	0.0912	0.0158
20	62.5475	0.4375	4176.3150	737.0232	0.0959	0.0169
21	62.5600	0.4500	4377.7800	790.4814	0.1005	0.0181
22	62.5725	0.4625	4579.2450	846.4581	0.1051	0.0194
23	62.5850	0.4750	4780.7100	904.9533	0.1098	0.0208
24	62.5975	0.4875	4982.1750	965.9670	0.1144	0.0222
25	62.6100	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	62.6225	0.5125	5439.5550	1095.8877	0.1249	0.0252
27	62.6350	0.5250	5695.4700	1165.4755	0.1308	0.0268
28	62.6475	0.5375	5951.3850	1238.2625	0.1366	0.0284
29	62.6600	0.5500	6207.3000	1314.2486	0.1425	0.0302
30	62.6725	0.5625	6463.2150	1393.4340	0.1484	0.0320
31	62.6850	0.5750	6719.1300	1475.8184	0.1542	0.0339
32	62.6975	0.5875	6975.0450	1561.4020	0.1601	0.0358
33	62.7100	0.6000	7230.9600	1650.1848	0.1660	0.0379
34	62.7350	0.6250	7824.4650	1838.3288	0.1796	0.0422
35	62.7600	0.6500	8417.9700	2041.3141	0.1932	0.0469
36	62.7850	0.6750	9011.4750	2259.1400	0.2069	0.0519
37	62.8100	0.7000	9604.9800	2491.8063	0.2205	0.0572
38	62.8350	0.7250	10198.4850	2739.3125	0.2341	0.0629
39	62.8600	0.7500	10791.9900	3001.6585	0.2478	0.0689
40	62.8850	0.7750	11385.4950	3278.8440	0.2614	0.0753
41	62.9100	0.8000	11979.0000	3570.8687	0.2750	0.0820
42	62.9350	0.8250	12567.0600	3877.6651	0.2885	0.0890
43	62.9600	0.8500	13155.1200	4199.1644	0.3020	0.0964
44	62.9850	0.8750	13743.1800	4535.3663	0.3155	0.1041
45	63.0100	0.9000	14331.2400	4886.2709	0.3290	0.1122
46	63.0350	0.9250	14919.3000	5251.8780	0.3425	0.1206
47	63.0600	0.9500	15507.3600	5632.1876	0.3560	0.1293
48	63.0850	0.9750	16095.4200	6027.1995	0.3695	0.1384
49	63.1100	1.0000	16683.4800	6436.9138	0.3830	0.1478
50	69.3600	7.2500	16683.4800	110708.6638	0.3830	2.5415

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| Variable storage data for node | G-5a
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	62.5900	0.0000	4.3560	0.0000	0.0001	0.0000
2	62.6150	0.0250	150.8265	1.5068	0.0035	0.0000
3	62.6400	0.0500	297.2970	7.0058	0.0068	0.0002
4	62.6650	0.0750	443.7675	16.2082	0.0102	0.0004
5	62.6900	0.1000	590.2380	29.0898	0.0135	0.0007
6	62.7150	0.1250	736.7085	45.6428	0.0169	0.0010
7	62.7400	0.1500	883.1790	65.8638	0.0203	0.0015
8	62.7650	0.1750	1029.6495	89.7507	0.0236	0.0021
9	62.7900	0.2000	1176.1200	117.3026	0.0270	0.0027
10	62.8150	0.2250	1475.5950	150.3783	0.0339	0.0035
11	62.8400	0.2500	1775.0700	190.9540	0.0408	0.0044
12	62.8650	0.2750	2074.5450	239.0256	0.0476	0.0055
13	62.8900	0.3000	2374.0200	294.5906	0.0545	0.0068
14	62.9150	0.3250	2673.4950	357.6475	0.0614	0.0082
15	62.9400	0.3500	2972.9700	428.1952	0.0683	0.0098
16	62.9650	0.3750	3272.4450	506.2330	0.0751	0.0116
17	62.9900	0.4000	3571.9200	591.7602	0.0820	0.0136
18	63.0025	0.4125	3773.3850	637.6626	0.0866	0.0146
19	63.0150	0.4250	3974.8500	686.0836	0.0912	0.0158
20	63.0275	0.4375	4176.3150	737.0232	0.0959	0.0169
21	63.0400	0.4500	4377.7800	790.4814	0.1005	0.0181
22	63.0525	0.4625	4579.2450	846.4581	0.1051	0.0194
23	63.0650	0.4750	4780.7100	904.9533	0.1098	0.0208
24	63.0775	0.4875	4982.1750	965.9670	0.1144	0.0222
25	63.0900	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	63.1025	0.5125	5439.5550	1095.8877	0.1249	0.0252
27	63.1150	0.5250	5695.4700	1165.4755	0.1308	0.0268
28	63.1275	0.5375	5951.3850	1238.2625	0.1366	0.0284
29	63.1400	0.5500	6207.3000	1314.2486	0.1425	0.0302
30	63.1525	0.5625	6463.2150	1393.4340	0.1484	0.0320
31	63.1650	0.5750	6719.1300	1475.8184	0.1542	0.0339
32	63.1775	0.5875	6975.0450	1561.4020	0.1601	0.0358
33	63.1900	0.6000	7230.9600	1650.1848	0.1660	0.0379
34	63.2150	0.6250	7824.4650	1838.3288	0.1796	0.0422
35	63.2400	0.6500	8417.9700	2041.3141	0.1932	0.0469
36	63.2650	0.6750	9011.4750	2259.1400	0.2069	0.0519
37	63.2900	0.7000	9604.9800	2491.8063	0.2205	0.0572
38	63.3150	0.7250	10198.4850	2739.3125	0.2341	0.0629
39	63.3400	0.7500	10791.9900	3001.6585	0.2478	0.0689
40	63.3650	0.7750	11385.4950	3278.8440	0.2614	0.0753
41	63.3900	0.8000	11979.0000	3570.8687	0.2750	0.0820
42	63.4150	0.8250	12567.0600	3877.6651	0.2885	0.0890
43	63.4400	0.8500	13155.1200	4199.1644	0.3020	0.0964
44	63.4650	0.8750	13743.1800	4535.3663	0.3155	0.1041
45	63.4900	0.9000	14331.2400	4886.2709	0.3290	0.1122
46	63.5150	0.9250	14919.3000	5251.8780	0.3425	0.1206
47	63.5400	0.9500	15507.3600	5632.1876	0.3560	0.1293
48	63.5650	0.9750	16095.4200	6027.1995	0.3695	0.1384
49	63.5900	1.0000	16683.4800	6436.9138	0.3830	0.1478

Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
50	69.3600	6.7700	16683.4800	102700.5934	0.3830	2.3577

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| Variable storage data for node | MH-18s
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	62.4200	0.0000	435.6000	0.0000	0.0100	0.0000
2	62.5575	0.1375	980.1000	94.8337	0.0225	0.0022
3	62.6950	0.2750	1524.6000	265.6591	0.0350	0.0061
4	62.8325	0.4125	2069.1000	511.7752	0.0475	0.0117
5	62.9700	0.5500	2613.6000	832.9829	0.0600	0.0191
6	63.1075	0.6875	3158.1000	1229.1974	0.0725	0.0282
7	63.2450	0.8250	3702.6000	1700.3745	0.0850	0.0390
8	63.3825	0.9625	4247.1000	2246.4886	0.0975	0.0516
9	63.5200	1.1000	4791.6000	2867.5230	0.1100	0.0658
10	63.6450	1.2250	8820.9000	3705.5959	0.2025	0.0851
11	63.7700	1.3500	12850.2000	5052.1672	0.2950	0.1160
12	63.8950	1.4750	16879.5000	6904.5585	0.3875	0.1585
13	64.0200	1.6000	20908.8000	9261.8391	0.4800	0.2126
14	64.1450	1.7250	24938.1000	12123.5745	0.5725	0.2783
15	64.2700	1.8500	28967.4000	15489.5265	0.6650	0.3556
16	64.3950	1.9750	32996.7000	19359.5506	0.7575	0.4444
17	64.5200	2.1000	37026.0000	23733.5522	0.8500	0.5448
18	64.6450	2.2250	53361.0000	29351.7333	1.2250	0.6738
19	64.7700	2.3500	69696.0000	37020.1083	1.6000	0.8499
20	64.8950	2.4750	86031.0000	46735.1479	1.9750	1.0729
21	65.0200	2.6000	102366.0000	58495.1791	2.3500	1.3429
22	65.1450	2.7250	118701.0000	72299.2763	2.7250	1.6598
23	65.2700	2.8500	135036.0000	88146.8731	3.1000	2.0236
24	65.3950	2.9750	151371.0000	106037.5980	3.4750	2.4343
25	65.5200	3.1000	167706.0000	125971.1937	3.8500	2.8919
26	65.6450	3.2250	228199.9500	150618.4615	5.2388	3.4577
27	65.7700	3.3500	288693.9000	182850.3246	6.6275	4.1977
28	65.8950	3.4750	349187.8500	222658.0388	8.0163	5.1115
29	66.0200	3.6000	409681.8000	270037.0793	9.4050	6.1992
30	66.1450	3.7250	470175.7500	324984.7997	10.7938	7.4606
31	66.2700	3.8500	530669.7000	387499.5176	12.1825	8.8958
32	66.3950	3.9750	591163.6500	457580.0972	13.5712	10.5046
33	66.5200	4.1000	651657.6000	535225.7350	14.9600	12.2871
34	68.3500	5.9300	651657.6000	1.727759E+06	14.9600	39.6639

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| Variable storage data for node | F-3
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	59.5800	0.0000	4.3560	0.0000	0.0001	0.0000
2	59.6050	0.0250	150.8265	1.5068	0.0035	0.0000
3	59.6300	0.0500	297.2970	7.0058	0.0068	0.0002
4	59.6550	0.0750	443.7675	16.2082	0.0102	0.0004
5	59.6800	0.1000	590.2380	29.0898	0.0135	0.0007
6	59.7050	0.1250	736.7085	45.6428	0.0169	0.0010
7	59.7300	0.1500	883.1790	65.8638	0.0203	0.0015
8	59.7550	0.1750	1029.6495	89.7507	0.0236	0.0021
9	59.7800	0.2000	1176.1200	117.3026	0.0270	0.0027
10	59.8050	0.2250	1475.5950	150.3783	0.0339	0.0035
11	59.8300	0.2500	1775.0700	190.9540	0.0408	0.0044
12	59.8550	0.2750	2074.5450	239.0256	0.0476	0.0055
13	59.8800	0.3000	2374.0200	294.5906	0.0545	0.0068
14	59.9050	0.3250	2673.4950	357.6475	0.0614	0.0082
15	59.9300	0.3500	2972.9700	428.1952	0.0683	0.0098
16	59.9550	0.3750	3272.4450	506.2330	0.0751	0.0116
17	59.9800	0.4000	3571.9200	591.7602	0.0820	0.0136
18	59.9925	0.4125	3773.3850	637.6626	0.0866	0.0146
19	60.0050	0.4250	3974.8500	686.0836	0.0912	0.0158
20	60.0175	0.4375	4176.3150	737.0232	0.0959	0.0169
21	60.0300	0.4500	4377.7800	790.4814	0.1005	0.0181
22	60.0425	0.4625	4579.2450	846.4581	0.1051	0.0194
23	60.0550	0.4750	4780.7100	904.9533	0.1098	0.0208
24	60.0675	0.4875	4982.1750	965.9670	0.1144	0.0222
25	60.0800	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	60.0925	0.5125	5439.5550	1095.8877	0.1249	0.0252
27	60.1050	0.5250	5695.4700	1165.4755	0.1308	0.0268
28	60.1175	0.5375	5951.3850	1238.2625	0.1366	0.0284
29	60.1300	0.5500	6207.3000	1314.2486	0.1425	0.0302
30	60.1425	0.5625	6463.2150	1393.4340	0.1484	0.0320
31	60.1550	0.5750	6719.1300	1475.8184	0.1542	0.0339
32	60.1675	0.5875	6975.0450	1561.4020	0.1601	0.0358
33	60.1800	0.6000	7230.9600	1650.1848	0.1660	0.0379
34	60.2050	0.6250	7824.4650	1838.3288	0.1796	0.0422
35	60.2300	0.6500	8417.9700	2041.3141	0.1932	0.0469
36	60.2550	0.6750	9011.4750	2259.1400	0.2069	0.0519
37	60.2800	0.7000	9604.9800	2491.8063	0.2205	0.0572
38	60.3050	0.7250	10198.4850	2739.3125	0.2341	0.0629
39	60.3300	0.7500	10791.9900	3001.6585	0.2478	0.0689
40	60.3550	0.7750	11385.4950	3278.8440	0.2614	0.0753
41	60.3800	0.8000	11979.0000	3570.8687	0.2750	0.0820
42	60.4050	0.8250	12567.0600	3877.6651	0.2885	0.0890
43	60.4300	0.8500	13155.1200	4199.1644	0.3020	0.0964
44	60.4550	0.8750	13743.1800	4535.3663	0.3155	0.1041
45	60.4800	0.9000	14331.2400	4886.2709	0.3290	0.1122
46	60.5050	0.9250	14919.3000	5251.8780	0.3425	0.1206
47	60.5300	0.9500	15507.3600	5632.1876	0.3560	0.1293
48	60.5550	0.9750	16095.4200	6027.1995	0.3695	0.1384
49	60.5800	1.0000	16683.4800	6436.9138	0.3830	0.1478
50	69.3600	9.7800	16683.4800	152917.8682	0.3830	3.5105

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| Variable storage data for node | G-1b
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	54.1100	0.0000	4.3560	0.0000	0.0001	0.0000
2	54.1350	0.0250	150.8265	1.5068	0.0035	0.0000
3	54.1600	0.0500	297.2970	7.0058	0.0068	0.0002
4	54.1850	0.0750	443.7675	16.2082	0.0102	0.0004
5	54.2100	0.1000	590.2380	29.0898	0.0135	0.0007
6	54.2350	0.1250	736.7085	45.6428	0.0169	0.0010
7	54.2600	0.1500	883.1790	65.8638	0.0203	0.0015
8	54.2850	0.1750	1029.6495	89.7507	0.0236	0.0021
9	54.3100	0.2000	1176.1200	117.3026	0.0270	0.0027
10	54.3350	0.2250	1475.5950	150.3783	0.0339	0.0035
11	54.3600	0.2500	1775.0700	190.9540	0.0408	0.0044
12	54.3850	0.2750	2074.5450	239.0256	0.0476	0.0055
13	54.4100	0.3000	2374.0200	294.5906	0.0545	0.0068
14	54.4350	0.3250	2673.4950	357.6475	0.0614	0.0082
15	54.4600	0.3500	2972.9700	428.1952	0.0683	0.0098
16	54.4850	0.3750	3272.4450	506.2330	0.0751	0.0116
17	54.5100	0.4000	3571.9200	591.7602	0.0820	0.0136
18	54.5225	0.4125	3773.3850	637.6626	0.0866	0.0146
19	54.5350	0.4250	3974.8500	686.0836	0.0912	0.0158
20	54.5475	0.4375	4176.3150	737.0232	0.0959	0.0169
21	54.5600	0.4500	4377.7800	790.4814	0.1005	0.0181
22	54.5725	0.4625	4579.2450	846.4581	0.1051	0.0194

23	54.5850	0.4750	4780.7100	904.9533	0.1098	0.0208
24	54.5975	0.4875	4982.1750	965.9670	0.1144	0.0222
25	54.6100	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	54.6225	0.5125	5439.5550	1095.8877	0.1249	0.0252
27	54.6350	0.5250	5695.4700	1165.4755	0.1308	0.0268
28	54.6475	0.5375	5951.3850	1238.2625	0.1366	0.0284
29	54.6600	0.5500	6207.3000	1314.2486	0.1425	0.0302
30	54.6725	0.5625	6463.2150	1393.4340	0.1484	0.0320
31	54.6850	0.5750	6719.1300	1475.8184	0.1542	0.0339
32	54.6975	0.5875	6975.0450	1561.4020	0.1601	0.0358
33	54.7100	0.6000	7230.9600	1650.1848	0.1660	0.0379
34	54.7350	0.6250	7824.4650	1838.3288	0.1796	0.0422
35	54.7600	0.6500	8417.9700	2041.3141	0.1932	0.0469
36	54.7850	0.6750	9011.4750	2259.1400	0.2069	0.0519
37	54.8100	0.7000	9604.9800	2491.8063	0.2205	0.0572
38	54.8350	0.7250	10198.4850	2739.3125	0.2341	0.0629
39	54.8600	0.7500	10791.9900	3001.6585	0.2478	0.0689
40	54.8850	0.7750	11385.4950	3278.8440	0.2614	0.0753
41	54.9100	0.8000	11979.0000	3570.8687	0.2750	0.0820
42	54.9350	0.8250	12567.0600	3877.6651	0.2885	0.0890
43	54.9600	0.8500	13155.1200	4199.1644	0.3020	0.0964
44	54.9850	0.8750	13743.1800	4535.3663	0.3155	0.1041
45	55.0100	0.9000	14331.2400	4886.2709	0.3290	0.1122
46	55.0350	0.9250	14919.3000	5251.8780	0.3425	0.1206
47	55.0600	0.9500	15507.3600	5632.1876	0.3560	0.1293
48	55.0850	0.9750	16095.4200	6027.1995	0.3695	0.1384
49	55.1100	1.0000	16683.4800	6436.9138	0.3830	0.1478
50	69.3600	15.2500	16683.4800	244176.5038	0.3830	5.6055

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| Variable storage data for node | J-G-1a
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	57.9100	0.0000	4.3560	0.0000	0.0001	0.0000
2	57.9350	0.0250	150.8265	1.5068	0.0035	0.0000
3	57.9600	0.0500	297.2970	7.0058	0.0068	0.0002
4	57.9850	0.0750	443.7675	16.2082	0.0102	0.0004
5	58.0100	0.1000	590.2380	29.0898	0.0135	0.0007
6	58.0350	0.1250	736.7085	45.6428	0.0169	0.0010
7	58.0600	0.1500	883.1790	65.8638	0.0203	0.0015
8	58.0850	0.1750	1029.6495	89.7507	0.0236	0.0021
9	58.1100	0.2000	1176.1200	117.3026	0.0270	0.0027
10	58.1350	0.2250	1475.5950	150.3783	0.0339	0.0035
11	58.1600	0.2500	1775.0700	190.9540	0.0408	0.0044
12	58.1850	0.2750	2074.5450	239.0256	0.0476	0.0055
13	58.2100	0.3000	2374.0200	294.5906	0.0545	0.0068
14	58.2350	0.3250	2673.4950	357.6475	0.0614	0.0082
15	58.2600	0.3500	2972.9700	428.1952	0.0683	0.0098
16	58.2850	0.3750	3272.4450	506.2330	0.0751	0.0116
17	58.3100	0.4000	3571.9200	591.7602	0.0820	0.0136
18	58.3225	0.4125	3773.3850	637.6626	0.0866	0.0146
19	58.3350	0.4250	3974.8500	686.0836	0.0912	0.0158
20	58.3475	0.4375	4176.3150	737.0232	0.0959	0.0169
21	58.3600	0.4500	4377.7800	790.4814	0.1005	0.0181
22	58.3725	0.4625	4579.2450	846.4581	0.1051	0.0194
23	58.3850	0.4750	4780.7100	904.9533	0.1098	0.0208
24	58.3975	0.4875	4982.1750	965.9670	0.1144	0.0222
25	58.4100	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	58.4225	0.5125	5439.5550	1095.8877	0.1249	0.0252
27	58.4350	0.5250	5695.4700	1165.4755	0.1308	0.0268
28	58.4475	0.5375	5951.3850	1238.2625	0.1366	0.0284
29	58.4600	0.5500	6207.3000	1314.2486	0.1425	0.0302
30	58.4725	0.5625	6463.2150	1393.4340	0.1484	0.0320
31	58.4850	0.5750	6719.1300	1475.8184	0.1542	0.0339
32	58.4975	0.5875	6975.0450	1561.4020	0.1601	0.0358
33	58.5100	0.6000	7230.9600	1650.1848	0.1660	0.0379
34	58.5350	0.6250	7824.4650	1838.3288	0.1796	0.0422
35	58.5600	0.6500	8417.9700	2041.3141	0.1932	0.0469
36	58.5850	0.6750	9011.4750	2259.1400	0.2069	0.0519
37	58.6100	0.7000	9604.9800	2491.8063	0.2205	0.0572
38	58.6350	0.7250	10198.4850	2739.3125	0.2341	0.0629
39	58.6600	0.7500	10791.9900	3001.6585	0.2478	0.0689
40	58.6850	0.7750	11385.4950	3278.8440	0.2614	0.0753
41	58.7100	0.8000	11979.0000	3570.8687	0.2750	0.0820
42	58.7350	0.8250	12567.0600	3877.6651	0.2885	0.0890
43	58.7600	0.8500	13155.1200	4199.1644	0.3020	0.0964
44	58.7850	0.8750	13743.1800	4535.3663	0.3155	0.1041
45	58.8100	0.9000	14331.2400	4886.2709	0.3290	0.1122
46	58.8350	0.9250	14919.3000	5251.8780	0.3425	0.1206
47	58.8600	0.9500	15507.3600	5632.1876	0.3560	0.1293
48	58.8850	0.9750	16095.4200	6027.1995	0.3695	0.1384
49	58.9100	1.0000	16683.4800	6436.9138	0.3830	0.1478
50	69.5600	11.6500	16683.4800	184115.9758	0.3830	4.2267

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| Variable storage data for node | F-2
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	60.2800	0.0000	4.3560	0.0000	0.0001	0.0000
2	60.3050	0.0250	150.8265	1.5068	0.0035	0.0000
3	60.3300	0.0500	297.2970	7.0058	0.0068	0.0002
4	60.3550	0.0750	443.7675	16.2082	0.0102	0.0004
5	60.3800	0.1000	590.2380	29.0898	0.0135	0.0007
6	60.4050	0.1250	736.7085	45.6428	0.0169	0.0010
7	60.4300	0.1500	883.1790	65.8638	0.0203	0.0015
8	60.4550	0.1750	1029.6495	89.7507	0.0236	0.0021
9	60.4800	0.2000	1176.1200	117.3026	0.0270	0.0027
10	60.5050	0.2250	1475.5950	150.3783	0.0339	0.0035
11	60.5300	0.2500	1775.0700	190.9540	0.0408	0.0044
12	60.5550	0.2750	2074.5450	239.0256	0.0476	0.0055
13	60.5800	0.3000	2374.0200	294.5906	0.0545	0.0068
14	60.6050	0.3250	2673.4950	357.6475	0.0614	0.0082
15	60.6300	0.3500	2972.9700	428.1952	0.0683	0.0098
16	60.6550	0.3750	3272.4450	506.2330	0.0751	0.0116
17	60.6800	0.4000	3571.9200	591.7602	0.0820	0.0136
18	60.6925	0.4125	3773.3850	637.6626	0.0866	0.0146
19	60.7050	0.4250	3974.8500	686.0836	0.0912	0.0158
20	60.7175	0.4375	4176.3150	737.0232	0.0959	0.0169
21	60.7300	0.4500	4377.7800	790.4814	0.1005	0.0181
22	60.7425	0.4625	4579.2450	846.4581	0.1051	0.0194
23	60.7550	0.4750	4780.7100	904.9533	0.1098	0.0208
24	60.7675	0.4875	4982.1750	965.9670	0.1144	0.0222
25	60.7800	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	60.7925	0.5125	5439.5550	1095.8877	0.1249	0.0252
27	60.8050	0.5250	5695.4700	1165.4755	0.1308	0.0268
28	60.8175	0.5375	5951.3850	1238.2625	0.1366	0.0284
29	60.8300	0.5500	6207.3000	1314.2486	0.1425	0.0302
30	60.8425	0.5625	6463.2150	1393.4340	0.1484	0.0320
31	60.8550	0.5750	6719.1300	1475.8184	0.1542	0.0339
32	60.8675	0.5875	6975.0450	1561.4020	0.1601	0.0358
33	60.8800	0.6000	7230.9600	1650.1848	0.1660	0.0379
34	60.9050	0.6250	7824.4650	1838.3288	0.1796	0.0422
35	60.9300	0.6500	8417.9700	2041.3141	0.1932	0.0469
36	60.9550	0.6750	9011.4750	2259.1400	0.2069	0.0519

37	60.9800	0.7000	9604.9800	2491.8063	0.2205	0.0572
38	61.0050	0.7250	10198.4850	2739.3125	0.2341	0.0629
39	61.0300	0.7500	10791.9900	3001.6585	0.2478	0.0689
40	61.0550	0.7750	11385.4950	3278.8440	0.2614	0.0753
41	61.0800	0.8000	11979.0000	3570.8687	0.2750	0.0820
42	61.1050	0.8250	12567.0600	3877.6651	0.2885	0.0890
43	61.1300	0.8500	13155.1200	4199.1644	0.3020	0.0964
44	61.1550	0.8750	13743.1800	4535.3663	0.3155	0.1041
45	61.1800	0.9000	14331.2400	4886.2709	0.3290	0.1122
46	61.2050	0.9250	14919.3000	5251.8780	0.3425	0.1206
47	61.2300	0.9500	15507.3600	5632.1876	0.3560	0.1293
48	61.2550	0.9750	16095.4200	6027.1995	0.3695	0.1384
49	61.2800	1.0000	16683.4800	6436.9138	0.3830	0.1478
50	69.3600	9.0800	16683.4800	141239.4322	0.3830	3.2424

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| Variable storage data for node | G-1
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	58.5100	0.0000	4.3560	0.0000	0.0001	0.0000
2	58.5350	0.0250	150.8265	1.5068	0.0035	0.0000
3	58.5600	0.0500	297.2970	7.0058	0.0068	0.0002
4	58.5850	0.0750	443.7675	16.2082	0.0102	0.0004
5	58.6100	0.1000	590.2380	29.0898	0.0135	0.0007
6	58.6350	0.1250	736.7085	45.6428	0.0169	0.0010
7	58.6600	0.1500	883.1790	65.8638	0.0203	0.0015
8	58.6850	0.1750	1029.6495	89.7507	0.0236	0.0021
9	58.7100	0.2000	1176.1200	117.3026	0.0270	0.0027
10	58.7350	0.2250	1475.5950	150.3783	0.0339	0.0035
11	58.7600	0.2500	1775.0700	190.9540	0.0408	0.0044
12	58.7850	0.2750	2074.5450	239.0256	0.0476	0.0055
13	58.8100	0.3000	2374.0200	294.5906	0.0545	0.0068
14	58.8350	0.3250	2673.4950	357.6475	0.0614	0.0082
15	58.8600	0.3500	2972.9700	428.1952	0.0683	0.0098
16	58.8850	0.3750	3272.4450	506.2330	0.0751	0.0116
17	58.9100	0.4000	3571.9200	591.7602	0.0820	0.0136
18	58.9225	0.4125	3773.3850	637.6626	0.0866	0.0146
19	58.9350	0.4250	3974.8500	686.0836	0.0912	0.0158
20	58.9475	0.4375	4176.3150	737.0232	0.0959	0.0169
21	58.9600	0.4500	4377.7800	790.4814	0.1005	0.0181
22	58.9725	0.4625	4579.2450	846.4581	0.1051	0.0194
23	58.9850	0.4750	4780.7100	904.9533	0.1098	0.0208
24	58.9975	0.4875	4982.1750	965.9670	0.1144	0.0222
25	59.0100	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	59.0225	0.5125	5439.5550	1095.8877	0.1249	0.0252
27	59.0350	0.5250	5695.4700	1165.4755	0.1308	0.0268
28	59.0475	0.5375	5951.3850	1238.2625	0.1366	0.0284
29	59.0600	0.5500	6207.3000	1314.2486	0.1425	0.0302
30	59.0725	0.5625	6463.2150	1393.4340	0.1484	0.0320
31	59.0850	0.5750	6719.1300	1475.8184	0.1542	0.0339
32	59.0975	0.5875	6975.0450	1561.4020	0.1601	0.0358
33	59.1100	0.6000	7230.9600	1650.1848	0.1660	0.0379
34	59.1350	0.6250	7824.4650	1838.3288	0.1796	0.0422
35	59.1600	0.6500	8417.9700	2041.3141	0.1932	0.0469
36	59.1850	0.6750	9011.4750	2259.1400	0.2069	0.0519
37	59.2100	0.7000	9604.9800	2491.8063	0.2205	0.0572
38	59.2350	0.7250	10198.4850	2739.3125	0.2341	0.0629
39	59.2600	0.7500	10791.9900	3001.6585	0.2478	0.0689
40	59.2850	0.7750	11385.4950	3278.8440	0.2614	0.0753
41	59.3100	0.8000	11979.0000	3570.8687	0.2750	0.0820
42	59.3350	0.8250	12567.0600	3877.6651	0.2885	0.0890
43	59.3600	0.8500	13155.1200	4199.1644	0.3020	0.0964
44	59.3850	0.8750	13743.1800	4535.3663	0.3155	0.1041
45	59.4100	0.9000	14331.2400	4886.2709	0.3290	0.1122
46	59.4350	0.9250	14919.3000	5251.8780	0.3425	0.1206
47	59.4600	0.9500	15507.3600	5632.1876	0.3560	0.1293
48	59.4850	0.9750	16095.4200	6027.1995	0.3695	0.1384
49	59.5100	1.0000	16683.4800	6436.9138	0.3830	0.1478
50	69.3600	10.8500	16683.4800	170769.1918	0.3830	3.9203

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| Variable storage data for node | F-1
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	60.8800	0.0000	4.3560	0.0000	0.0001	0.0000
2	60.9050	0.0250	150.8265	1.5068	0.0035	0.0000
3	60.9300	0.0500	297.2970	7.0058	0.0068	0.0002
4	60.9550	0.0750	443.7675	16.2082	0.0102	0.0004
5	60.9800	0.1000	590.2380	29.0898	0.0135	0.0007
6	61.0050	0.1250	736.7085	45.6428	0.0169	0.0010
7	61.0300	0.1500	883.1790	65.8638	0.0203	0.0015
8	61.0550	0.1750	1029.6495	89.7507	0.0236	0.0021
9	61.0800	0.2000	1176.1200	117.3026	0.0270	0.0027
10	61.1050	0.2250	1475.5950	150.3783	0.0339	0.0035
11	61.1300	0.2500	1775.0700	190.9540	0.0408	0.0044
12	61.1550	0.2750	2074.5450	239.0256	0.0476	0.0055
13	61.1800	0.3000	2374.0200	294.5906	0.0545	0.0068
14	61.2050	0.3250	2673.4950	357.6475	0.0614	0.0082
15	61.2300	0.3500	2972.9700	428.1952	0.0683	0.0098
16	61.2550	0.3750	3272.4450	506.2330	0.0751	0.0116
17	61.2800	0.4000	3571.9200	591.7602	0.0820	0.0136
18	61.2925	0.4125	3773.3850	637.6626	0.0866	0.0146
19	61.3050	0.4250	3974.8500	686.0836	0.0912	0.0158
20	61.3175	0.4375	4176.3150	737.0232	0.0959	0.0169
21	61.3300	0.4500	4377.7800	790.4814	0.1005	0.0181
22	61.3425	0.4625	4579.2450	846.4581	0.1051	0.0194
23	61.3550	0.4750	4780.7100	904.9533	0.1098	0.0208
24	61.3675	0.4875	4982.1750	965.9670	0.1144	0.0222
25	61.3800	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	61.3925	0.5125	5439.5550	1095.8877	0.1249	0.0252
27	61.4050	0.5250	5695.4700	1165.4755	0.1308	0.0268
28	61.4175	0.5375	5951.3850	1238.2625	0.1366	0.0284
29	61.4300	0.5500	6207.3000	1314.2486	0.1425	0.0302
30	61.4425	0.5625	6463.2150	1393.4340	0.1484	0.0320
31	61.4550	0.5750	6719.1300	1475.8184	0.1542	0.0339
32	61.4675	0.5875	6975.0450	1561.4020	0.1601	0.0358
33	61.4800	0.6000	7230.9600	1650.1848	0.1660	0.0379
34	61.5050	0.6250	7824.4650	1838.3288	0.1796	0.0422
35	61.5300	0.6500	8417.9700	2041.3141	0.1932	0.0469
36	61.5550	0.6750	9011.4750	2259.1400	0.2069	0.0519
37	61.5800	0.7000	9604.9800	2491.8063	0.2205	0.0572
38	61.6050	0.7250	10198.4850	2739.3125	0.2341	0.0629
39	61.6300	0.7500	10791.9900	3001.6585	0.2478	0.0689
40	61.6550	0.7750	11385.4950	3278.8440	0.2614	0.0753
41	61.6800	0.8000	11979.0000	3570.8687	0.2750	0.0820
42	61.7050	0.8250	12567.0600	3877.6651	0.2885	0.0890
43	61.7300	0.8500	13155.1200	4199.1644	0.3020	0.0964
44	61.7550	0.8750	13743.1800	4535.3663	0.3155	0.1041
45	61.7800	0.9000	14331.2400	4886.2709	0.3290	0.1122
46	61.8050	0.9250	14919.3000	5251.8780	0.3425	0.1206
47	61.8300	0.9500	15507.3600	5632.1876	0.3560	0.1293
48	61.8550	0.9750	16095.4200	6027.1995	0.3695	0.1384
49	61.8800	1.0000	16683.4800	6436.9138	0.3830	0.1478
50	69.5400	8.6600	16683.4800	134232.3706	0.3830	3.0816

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| Variable storage data for node | COH01
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	62.1410	0.0000	435.6000	0.0000	0.0100	0.0000
2	62.2610	0.1200	6207.3000	331.4902	0.1425	0.0076
3	62.3810	0.2400	11979.0000	1403.8647	0.2750	0.0322
4	62.5010	0.3600	17750.7000	3176.3340	0.4075	0.0729
5	62.6210	0.4800	23522.4000	5644.6089	0.5400	0.1296
6	62.7410	0.6000	29294.1000	8807.2727	0.6725	0.2022
7	62.8610	0.7200	35065.8000	12663.6803	0.8050	0.2907
8	62.9810	0.8400	40837.5000	17213.4831	0.9375	0.3952
9	63.1010	0.9600	46609.2000	22456.4715	1.0700	0.5155
10	63.2260	1.0850	66102.3000	29465.5563	1.5175	0.6764
11	63.3510	1.2100	85595.4000	38920.4617	1.9650	0.8935
12	63.4760	1.3350	105088.5000	50817.3933	2.4125	1.1666
13	63.6010	1.4600	124581.6000	65154.5094	2.8600	1.4957
14	63.7260	1.5850	144074.7000	81930.7757	3.3075	1.8809
15	63.8510	1.7100	163567.8000	101145.5529	3.7550	2.3220
16	63.9760	1.8350	183060.9000	122798.4187	4.2025	2.8191
17	64.1010	1.9600	202554.0000	146889.0789	4.6500	3.3721
18	68.0200	5.8790	202554.0000	940698.2049	4.6500	21.5955

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| Variable storage data for node | G-2
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	58.7600	0.0000	4.3560	0.0000	0.0001	0.0000
2	58.7850	0.0250	150.8265	1.5068	0.0035	0.0000
3	58.8100	0.0500	297.2970	7.0058	0.0068	0.0002
4	58.8350	0.0750	443.7675	16.2082	0.0102	0.0004
5	58.8600	0.1000	590.2380	29.0898	0.0135	0.0007
6	58.8850	0.1250	736.7085	45.6428	0.0169	0.0010
7	58.9100	0.1500	883.1790	65.8638	0.0203	0.0015
8	58.9350	0.1750	1029.6495	89.7507	0.0236	0.0021
9	58.9600	0.2000	1176.1200	117.3026	0.0270	0.0027
10	58.9850	0.2250	1475.5950	150.3783	0.0339	0.0035
11	59.0100	0.2500	1775.0700	190.9540	0.0408	0.0044
12	59.0350	0.2750	2074.5450	239.0256	0.0476	0.0055
13	59.0600	0.3000	2374.0200	294.5906	0.0545	0.0068
14	59.0850	0.3250	2673.4950	357.6475	0.0614	0.0082
15	59.1100	0.3500	2972.9700	428.1952	0.0683	0.0098
16	59.1350	0.3750	3272.4450	506.2330	0.0751	0.0116
17	59.1600	0.4000	3571.9200	591.7602	0.0820	0.0136
18	59.1725	0.4125	3773.3850	637.6626	0.0866	0.0146
19	59.1850	0.4250	3974.8500	686.0836	0.0912	0.0158
20	59.1975	0.4375	4176.3150	737.0232	0.0959	0.0169
21	59.2100	0.4500	4377.7800	790.4814	0.1005	0.0181
22	59.2225	0.4625	4579.2450	846.4581	0.1051	0.0194
23	59.2350	0.4750	4780.7100	904.9533	0.1098	0.0208
24	59.2475	0.4875	4982.1750	965.9670	0.1144	0.0222
25	59.2600	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	59.2725	0.5125	5439.5550	1095.8877	0.1249	0.0252
27	59.2850	0.5250	5695.4700	1165.4755	0.1308	0.0268
28	59.2975	0.5375	5951.3850	1238.2625	0.1366	0.0284
29	59.3100	0.5500	6207.3000	1314.2486	0.1425	0.0302
30	59.3225	0.5625	6463.2150	1393.4340	0.1484	0.0320
31	59.3350	0.5750	6719.1300	1475.8184	0.1542	0.0339
32	59.3475	0.5875	6975.0450	1561.4020	0.1601	0.0358
33	59.3600	0.6000	7230.9600	1650.1848	0.1660	0.0379
34	59.3850	0.6250	7824.4650	1838.3288	0.1796	0.0422
35	59.4100	0.6500	8417.9700	2041.3141	0.1932	0.0469
36	59.4350	0.6750	9011.4750	2259.1400	0.2069	0.0519
37	59.4600	0.7000	9604.9800	2491.8063	0.2205	0.0572
38	59.4850	0.7250	10198.4850	2739.3125	0.2341	0.0629
39	59.5100	0.7500	10791.9900	3001.6585	0.2478	0.0689
40	59.5350	0.7750	11385.4950	3278.8440	0.2614	0.0753
41	59.5600	0.8000	11979.0000	3570.8687	0.2750	0.0820
42	59.5850	0.8250	12567.0600	3877.6651	0.2885	0.0890
43	59.6100	0.8500	13155.1200	4199.1644	0.3020	0.0964
44	59.6350	0.8750	13743.1800	4535.3663	0.3155	0.1041
45	59.6600	0.9000	14331.2400	4886.2709	0.3290	0.1122
46	59.6850	0.9250	14919.3000	5251.8780	0.3425	0.1206
47	59.7100	0.9500	15507.3600	5632.1876	0.3560	0.1293
48	59.7350	0.9750	16095.4200	6027.1995	0.3695	0.1384
49	59.7600	1.0000	16683.4800	6436.9138	0.3830	0.1478
50	69.3600	10.6000	16683.4800	166598.3218	0.3830	3.8246

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| Variable storage data for node | E-5
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	61.8800	0.0000	4.3560	0.0000	0.0001	0.0000
2	61.9050	0.0250	150.8265	1.5068	0.0035	0.0000
3	61.9300	0.0500	297.2970	7.0058	0.0068	0.0002
4	61.9550	0.0750	443.7675	16.2082	0.0102	0.0004
5	61.9800	0.1000	590.2380	29.0898	0.0135	0.0007
6	62.0050	0.1250	736.7085	45.6428	0.0169	0.0010
7	62.0300	0.1500	883.1790	65.8638	0.0203	0.0015
8	62.0550	0.1750	1029.6495	89.7507	0.0236	0.0021
9	62.0800	0.2000	1176.1200	117.3026	0.0270	0.0027
10	62.1050	0.2250	1475.5950	150.3783	0.0339	0.0035
11	62.1300	0.2500	1775.0700	190.9540	0.0408	0.0044
12	62.1550	0.2750	2074.5450	239.0256	0.0476	0.0055
13	62.1800	0.3000	2374.0200	294.5906	0.0545	0.0068
14	62.2050	0.3250	2673.4950	357.6475	0.0614	0.0082
15	62.2300	0.3500	2972.9700	428.1952	0.0683	0.0098
16	62.2550	0.3750	3272.4450	506.2330	0.0751	0.0116
17	62.2800	0.4000	3571.9200	591.7602	0.0820	0.0136
18	62.2925	0.4125	3773.3850	637.6626	0.0866	0.0146
19	62.3050	0.4250	3974.8500	686.0836	0.0912	0.0158
20	62.3175	0.4375	4176.3150	737.0232	0.0959	0.0169
21	62.3300	0.4500	4377.7800	790.4814	0.1005	0.0181
22	62.3425	0.4625	4579.2450	846.4581	0.1051	0.0194
23	62.3550	0.4750	4780.7100	904.9533	0.1098	0.0208
24	62.3675	0.4875	4982.1750	965.9670	0.1144	0.0222
25	62.3800	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	62.3925	0.5125	5439.5550	1095.8877	0.1249	0.0252
27	62.4050	0.5250	5695.4700	1165.4755	0.1308	0.0268
28	62.4175	0.5375	5951.3850	1238.2625	0.1366	0.0284
29	62.4300	0.5500	6207.3000	1314.2486	0.1425	0.0302
30	62.4425	0.5625	6463.2150	1393.4340	0.1484	0.0320
31	62.4550	0.5750	6719.1300	1475.8184	0.1542	0.0339
32	62.4675	0.5875	6975.0450	1561.4020	0.1601	0.0358
33	62.4800	0.6000	7230.9600	1650.1848	0.1660	0.0379
34	62.5050	0.6250	7824.4650	1838.3288	0.1796	0.0422
35	62.5300	0.6500	8417.9700	2041.3141	0.1932	0.0469
36	62.5550	0.6750	9011.4750	2259.1400	0.2069	0.0519
37	62.5800	0.7000	9604.9800	2491.8063	0.2205	0.0572
38	62.6050	0.7250	10198.4850	2739.3125	0.2341	0.0629
39	62.6300	0.7500	10791.9900	3001.6585	0.2478	0.0689

40	62.6550	0.7750	11385.4950	3278.8440	0.2614	0.0753
41	62.6800	0.8000	11979.0000	3570.8687	0.2750	0.0820
42	62.7050	0.8250	12567.0600	3877.6651	0.2885	0.0890
43	62.7300	0.8500	13155.1200	4199.1644	0.3020	0.0964
44	62.7550	0.8750	13743.1800	4535.3663	0.3155	0.1041
45	62.7800	0.9000	14331.2400	4886.2709	0.3290	0.1122
46	62.8050	0.9250	14919.3000	5251.8780	0.3425	0.1206
47	62.8300	0.9500	15507.3600	5632.1876	0.3560	0.1293
48	62.8550	0.9750	16095.4200	6027.1995	0.3695	0.1384
49	62.8800	1.0000	16683.4800	6436.9138	0.3830	0.1478
50	71.4800	9.6000	16683.4800	149914.8418	0.3830	3.4416

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| Variable storage data for node | MH-12s
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	59.5900	0.0000	4.3560	0.0000	0.0001	0.0000
2	59.6150	0.0250	150.8265	1.5068	0.0035	0.0000
3	59.6400	0.0500	297.2970	7.0058	0.0068	0.0002
4	59.6650	0.0750	443.7675	16.2082	0.0102	0.0004
5	59.6900	0.1000	590.2380	29.0898	0.0135	0.0007
6	59.7150	0.1250	736.7085	45.6428	0.0169	0.0010
7	59.7400	0.1500	883.1790	65.8638	0.0203	0.0015
8	59.7650	0.1750	1029.6495	89.7507	0.0236	0.0021
9	59.7900	0.2000	1176.1200	117.3026	0.0270	0.0027
10	59.8150	0.2250	1475.5950	150.3783	0.0339	0.0035
11	59.8400	0.2500	1775.0700	190.9540	0.0408	0.0044
12	59.8650	0.2750	2074.5450	239.0256	0.0476	0.0055
13	59.8900	0.3000	2374.0200	294.5906	0.0545	0.0068
14	59.9150	0.3250	2673.4950	357.6475	0.0614	0.0082
15	59.9400	0.3500	2972.9700	428.1952	0.0683	0.0098
16	59.9650	0.3750	3272.4450	506.2330	0.0751	0.0116
17	59.9900	0.4000	3571.9200	591.7602	0.0820	0.0136
18	60.0025	0.4125	3773.3850	637.6626	0.0866	0.0146
19	60.0150	0.4250	3974.8500	686.0836	0.0912	0.0158
20	60.0275	0.4375	4176.3150	737.0232	0.0959	0.0169
21	60.0400	0.4500	4377.7800	790.4814	0.1005	0.0181
22	60.0525	0.4625	4579.2450	846.4581	0.1051	0.0194
23	60.0650	0.4750	4780.7100	904.9533	0.1098	0.0208
24	60.0775	0.4875	4982.1750	965.9670	0.1144	0.0222
25	60.0900	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	60.1025	0.5125	5439.5550	1095.8877	0.1249	0.0252
27	60.1150	0.5250	5695.4700	1165.4755	0.1308	0.0268
28	60.1275	0.5375	5951.3850	1238.2625	0.1366	0.0284
29	60.1400	0.5500	6207.3000	1314.2486	0.1425	0.0302
30	60.1525	0.5625	6463.2150	1393.4340	0.1484	0.0320
31	60.1650	0.5750	6719.1300	1475.8184	0.1542	0.0339
32	60.1775	0.5875	6975.0450	1561.4020	0.1601	0.0358
33	60.1900	0.6000	7230.9600	1650.1848	0.1660	0.0379
34	60.2150	0.6250	7824.4650	1838.3288	0.1796	0.0422
35	60.2400	0.6500	8417.9700	2041.3141	0.1932	0.0469
36	60.2650	0.6750	9011.4750	2259.1400	0.2069	0.0519
37	60.2900	0.7000	9604.9800	2491.8063	0.2205	0.0572
38	60.3150	0.7250	10198.4850	2739.3125	0.2341	0.0629
39	60.3400	0.7500	10791.9900	3001.6585	0.2478	0.0689
40	60.3650	0.7750	11385.4950	3278.8440	0.2614	0.0753
41	60.3900	0.8000	11979.0000	3570.8687	0.2750	0.0820
42	60.4150	0.8250	12567.0600	3877.6651	0.2885	0.0890
43	60.4400	0.8500	13155.1200	4199.1644	0.3020	0.0964
44	60.4650	0.8750	13743.1800	4535.3663	0.3155	0.1041
45	60.4900	0.9000	14331.2400	4886.2709	0.3290	0.1122
46	60.5150	0.9250	14919.3000	5251.8780	0.3425	0.1206
47	60.5400	0.9500	15507.3600	5632.1876	0.3560	0.1293
48	60.5650	0.9750	16095.4200	6027.1995	0.3695	0.1384
49	60.5900	1.0000	16683.4800	6436.9138	0.3830	0.1478
50	70.8700	11.2800	16683.4800	177943.0882	0.3830	4.0850

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| Variable storage data for node | E-4
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	65.0000	0.0000	4.3560	0.0000	0.0001	0.0000
2	65.0250	0.0250	150.8265	1.5068	0.0035	0.0000
3	65.0500	0.0500	297.2970	7.0058	0.0068	0.0002
4	65.0750	0.0750	443.7675	16.2082	0.0102	0.0004
5	65.1000	0.1000	590.2380	29.0898	0.0135	0.0007
6	65.1250	0.1250	736.7085	45.6428	0.0169	0.0010
7	65.1500	0.1500	883.1790	65.8638	0.0203	0.0015
8	65.1750	0.1750	1029.6495	89.7507	0.0236	0.0021
9	65.2000	0.2000	1176.1200	117.3026	0.0270	0.0027
10	65.2250	0.2250	1475.5950	150.3783	0.0339	0.0035
11	65.2500	0.2500	1775.0700	190.9540	0.0408	0.0044
12	65.2750	0.2750	2074.5450	239.0256	0.0476	0.0055
13	65.3000	0.3000	2374.0200	294.5906	0.0545	0.0068
14	65.3250	0.3250	2673.4950	357.6475	0.0614	0.0082
15	65.3500	0.3500	2972.9700	428.1952	0.0683	0.0098
16	65.3750	0.3750	3272.4450	506.2330	0.0751	0.0116
17	65.4000	0.4000	3571.9200	591.7602	0.0820	0.0136
18	65.4125	0.4125	3773.3850	637.6626	0.0866	0.0146
19	65.4250	0.4250	3974.8500	686.0836	0.0912	0.0158
20	65.4375	0.4375	4176.3150	737.0232	0.0959	0.0169
21	65.4500	0.4500	4377.7800	790.4814	0.1005	0.0181
22	65.4625	0.4625	4579.2450	846.4581	0.1051	0.0194
23	65.4750	0.4750	4780.7100	904.9533	0.1098	0.0208
24	65.4875	0.4875	4982.1750	965.9670	0.1144	0.0222
25	65.5000	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	65.5125	0.5125	5439.5550	1095.8877	0.1249	0.0252
27	65.5250	0.5250	5695.4700	1165.4755	0.1308	0.0268
28	65.5375	0.5375	5951.3850	1238.2625	0.1366	0.0284
29	65.5500	0.5500	6207.3000	1314.2486	0.1425	0.0302
30	65.5625	0.5625	6463.2150	1393.4340	0.1484	0.0320
31	65.5750	0.5750	6719.1300	1475.8184	0.1542	0.0339
32	65.5875	0.5875	6975.0450	1561.4020	0.1601	0.0358
33	65.6000	0.6000	7230.9600	1650.1848	0.1660	0.0379
34	65.6250	0.6250	7824.4650	1838.3288	0.1796	0.0422
35	65.6500	0.6500	8417.9700	2041.3141	0.1932	0.0469
36	65.6750	0.6750	9011.4750	2259.1400	0.2069	0.0519
37	65.7000	0.7000	9604.9800	2491.8063	0.2205	0.0572
38	65.7250	0.7250	10198.4850	2739.3125	0.2341	0.0629
39	65.7500	0.7500	10791.9900	3001.6585	0.2478	0.0689
40	65.7750	0.7750	11385.4950	3278.8440	0.2614	0.0753
41	65.8000	0.8000	11979.0000	3570.8687	0.2750	0.0820
42	65.8250	0.8250	12567.0600	3877.6651	0.2885	0.0890
43	65.8500	0.8500	13155.1200	4199.1644	0.3020	0.0964
44	65.8750	0.8750	13743.1800	4535.3663	0.3155	0.1041
45	65.9000	0.9000	14331.2400	4886.2709	0.3290	0.1122
46	65.9250	0.9250	14919.3000	5251.8780	0.3425	0.1206
47	65.9500	0.9500	15507.3600	5632.1876	0.3560	0.1293
48	65.9750	0.9750	16095.4200	6027.1995	0.3695	0.1384
49	66.0000	1.0000	16683.4800	6436.9138	0.3830	0.1478
50	72.1100	7.1100	16683.4800	108372.9766	0.3830	2.4879

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| Variable storage data for node | W43rd

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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	63.7380	0.0000	435.6000	0.0000	0.0100	0.0000
2	63.7918	0.0537	3702.6000	96.8966	0.0850	0.0022
3	63.8455	0.1075	6969.6000	379.1222	0.1600	0.0087
4	63.8993	0.1613	10236.6000	838.7348	0.2350	0.0193
5	63.9530	0.2150	13503.6000	1474.7293	0.3100	0.0339
6	64.0067	0.2687	16770.6000	2286.7646	0.3850	0.0525
7	64.0605	0.3225	20037.6000	3274.6836	0.4600	0.0752
8	64.1142	0.3762	23304.6000	4438.4006	0.5350	0.1019
9	64.1680	0.4300	26571.6000	5777.8639	0.6100	0.1326
10	64.2930	0.5550	31744.3500	9417.8219	0.7288	0.2162
11	64.4180	0.6800	36917.1000	13705.0973	0.8475	0.3146
12	64.5430	0.8050	42089.8500	18639.5001	0.9663	0.4279
13	64.6680	0.9300	47262.6000	24220.9062	1.0850	0.5560
14	64.7930	1.0550	52435.3500	30449.2306	1.2038	0.6990
15	64.9180	1.1800	57608.1000	37324.4120	1.3225	0.8569
16	65.0430	1.3050	62780.8500	44846.4051	1.4413	1.0295
17	65.1680	1.4300	67953.6000	53015.1754	1.5600	1.2171
18	72.5700	8.8320	67953.6000	556007.7226	1.5600	12.7642

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| Variable storage data for node | E-2

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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	66.4700	0.0000	4.3560	0.0000	0.0001	0.0000
2	66.4950	0.0250	150.8265	1.5068	0.0035	0.0000
3	66.5200	0.0500	297.2970	7.0058	0.0068	0.0002
4	66.5450	0.0750	443.7675	16.2082	0.0102	0.0004
5	66.5700	0.1000	590.2380	29.0898	0.0135	0.0007
6	66.5950	0.1250	736.7085	45.6428	0.0169	0.0010
7	66.6200	0.1500	883.1790	65.8638	0.0203	0.0015
8	66.6450	0.1750	1029.6495	89.7507	0.0236	0.0021
9	66.6700	0.2000	1176.1200	117.3026	0.0270	0.0027
10	66.6950	0.2250	1475.5950	150.3783	0.0339	0.0035
11	66.7200	0.2500	1775.0700	190.9540	0.0408	0.0044
12	66.7450	0.2750	2074.5450	239.0256	0.0476	0.0055
13	66.7700	0.3000	2374.0200	294.5906	0.0545	0.0068
14	66.7950	0.3250	2673.4950	357.6475	0.0614	0.0082
15	66.8200	0.3500	2972.9700	428.1952	0.0683	0.0098
16	66.8450	0.3750	3272.4450	506.2330	0.0751	0.0116
17	66.8700	0.4000	3571.9200	591.7602	0.0820	0.0136
18	66.8825	0.4125	3773.3850	637.6626	0.0866	0.0146
19	66.8950	0.4250	3974.8500	686.0836	0.0912	0.0158
20	66.9075	0.4375	4176.3150	737.0232	0.0959	0.0169
21	66.9200	0.4500	4377.7800	790.4814	0.1005	0.0181
22	66.9325	0.4625	4579.2450	846.4581	0.1051	0.0194
23	66.9450	0.4750	4780.7100	904.9533	0.1098	0.0208
24	66.9575	0.4875	4982.1750	965.9670	0.1144	0.0222
25	66.9700	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	66.9825	0.5125	5439.5550	1095.8877	0.1249	0.0252
27	66.9950	0.5250	5695.4700	1165.4755	0.1308	0.0268
28	67.0075	0.5375	5951.3850	1238.2625	0.1366	0.0284
29	67.0200	0.5500	6207.3000	1314.2486	0.1425	0.0302
30	67.0325	0.5625	6463.2150	1393.4340	0.1484	0.0320
31	67.0450	0.5750	6719.1300	1475.8184	0.1542	0.0339
32	67.0575	0.5875	6975.0450	1561.4020	0.1601	0.0358
33	67.0700	0.6000	7230.9600	1650.1848	0.1660	0.0379
34	67.0950	0.6250	7824.4650	1838.3288	0.1796	0.0422
35	67.1200	0.6500	8417.9700	2041.3141	0.1932	0.0469
36	67.1450	0.6750	9011.4750	2259.1400	0.2069	0.0519
37	67.1700	0.7000	9604.9800	2491.8063	0.2205	0.0572
38	67.1950	0.7250	10198.4850	2739.3125	0.2341	0.0629
39	67.2200	0.7500	10791.9900	3001.6585	0.2478	0.0689
40	67.2450	0.7750	11385.4950	3278.8440	0.2614	0.0753
41	67.2700	0.8000	11979.0000	3570.8687	0.2750	0.0820
42	67.2950	0.8250	12567.0600	3877.6651	0.2885	0.0890
43	67.3200	0.8500	13155.1200	4199.1644	0.3020	0.0964
44	67.3450	0.8750	13743.1800	4535.3663	0.3155	0.1041
45	67.3700	0.9000	14331.2400	4886.2709	0.3290	0.1122
46	67.3950	0.9250	14919.3000	5251.8780	0.3425	0.1206
47	67.4200	0.9500	15507.3600	5632.1876	0.3560	0.1293
48	67.4450	0.9750	16095.4200	6027.1995	0.3695	0.1384
49	67.4700	1.0000	16683.4800	6436.9138	0.3830	0.1478
50	74.5300	8.0600	16683.4800	124222.2826	0.3830	2.8518

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| Variable storage data for node | H-1

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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	54.4300	0.0000	4.3560	0.0000	0.0001	0.0000
2	54.4550	0.0250	150.8265	1.5068	0.0035	0.0000
3	54.4800	0.0500	297.2970	7.0058	0.0068	0.0002
4	54.5050	0.0750	443.7675	16.2082	0.0102	0.0004
5	54.5300	0.1000	590.2380	29.0898	0.0135	0.0007
6	54.5550	0.1250	736.7085	45.6428	0.0169	0.0010
7	54.5800	0.1500	883.1790	65.8638	0.0203	0.0015
8	54.6050	0.1750	1029.6495	89.7507	0.0236	0.0021
9	54.6300	0.2000	1176.1200	117.3026	0.0270	0.0027
10	54.6550	0.2250	1475.5950	150.3783	0.0339	0.0035
11	54.6800	0.2500	1775.0700	190.9540	0.0408	0.0044
12	54.7050	0.2750	2074.5450	239.0256	0.0476	0.0055
13	54.7300	0.3000	2374.0200	294.5906	0.0545	0.0068
14	54.7550	0.3250	2673.4950	357.6475	0.0614	0.0082
15	54.7800	0.3500	2972.9700	428.1952	0.0683	0.0098
16	54.8050	0.3750	3272.4450	506.2330	0.0751	0.0116
17	54.8300	0.4000	3571.9200	591.7602	0.0820	0.0136
18	54.8425	0.4125	3773.3850	637.6626	0.0866	0.0146
19	54.8550	0.4250	3974.8500	686.0836	0.0912	0.0158
20	54.8675	0.4375	4176.3150	737.0232	0.0959	0.0169
21	54.8800	0.4500	4377.7800	790.4814	0.1005	0.0181
22	54.8925	0.4625	4579.2450	846.4581	0.1051	0.0194
23	54.9050	0.4750	4780.7100	904.9533	0.1098	0.0208
24	54.9175	0.4875	4982.1750	965.9670	0.1144	0.0222
25	54.9300	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	54.9425	0.5125	5439.5550	1095.8877	0.1249	0.0252
27	54.9550	0.5250	5695.4700	1165.4755	0.1308	0.0268
28	54.9675	0.5375	5951.3850	1238.2625	0.1366	0.0284
29	54.9800	0.5500	6207.3000	1314.2486	0.1425	0.0302
30	54.9925	0.5625	6463.2150	1393.4340	0.1484	0.0320
31	55.0050	0.5750	6719.1300	1475.8184	0.1542	0.0339
32	55.0175	0.5875	6975.0450	1561.4020	0.1601	0.0358
33	55.0300	0.6000	7230.9600	1650.1848	0.1660	0.0379
34	55.0550	0.6250	7824.4650	1838.3288	0.1796	0.0422
35	55.0800	0.6500	8417.9700	2041.3141	0.1932	0.0469
36	55.1050	0.6750	9011.4750	2259.1400	0.2069	0.0519
37	55.1300	0.7000	9604.9800	2491.8063	0.2205	0.0572
38	55.1550	0.7250	10198.4850	2739.3125	0.2341	0.0629
39	55.1800	0.7500	10791.9900	3001.6585	0.2478	0.0689
40	55.2050	0.7750	11385.4950	3278.8440	0.2614	0.0753
41	55.2300	0.8000	11979.0000	3570.8687	0.2750	0.0820
42	55.2550	0.8250	12567.0600	3877.6651	0.2885	0.0890

43	55.2800	0.8500	13155.1200	4199.1644	0.3020	0.0964
44	55.3050	0.8750	13743.1800	4535.3663	0.3155	0.1041
45	55.3300	0.9000	14331.2400	4886.2709	0.3290	0.1122
46	55.3550	0.9250	14919.3000	5251.8780	0.3425	0.1206
47	55.3800	0.9500	15507.3600	5632.1876	0.3560	0.1293
48	55.4050	0.9750	16095.4200	6027.1995	0.3695	0.1384
49	55.4300	1.0000	16683.4800	6436.9138	0.3830	0.1478
50	69.4200	14.9900	16683.4800	239838.7990	0.3830	5.5059

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| Variable storage data for node | J-H-1
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	54.8400	0.0000	4.3560	0.0000	0.0001	0.0000
2	54.8650	0.0250	150.8265	1.5068	0.0035	0.0000
3	54.8900	0.0500	297.2970	7.0058	0.0068	0.0002
4	54.9150	0.0750	443.7675	16.2082	0.0102	0.0004
5	54.9400	0.1000	590.2380	29.0898	0.0135	0.0007
6	54.9650	0.1250	736.7085	45.6428	0.0169	0.0010
7	54.9900	0.1500	883.1790	65.8638	0.0203	0.0015
8	55.0150	0.1750	1029.6495	89.7507	0.0236	0.0021
9	55.0400	0.2000	1176.1200	117.3026	0.0270	0.0027
10	55.0650	0.2250	1475.5950	150.3783	0.0339	0.0035
11	55.0900	0.2500	1775.0700	190.9540	0.0408	0.0044
12	55.1150	0.2750	2074.5450	239.0256	0.0476	0.0055
13	55.1400	0.3000	2374.0200	294.5906	0.0545	0.0068
14	55.1650	0.3250	2673.4950	357.6475	0.0614	0.0082
15	55.1900	0.3500	2972.9700	428.1952	0.0683	0.0098
16	55.2150	0.3750	3272.4450	506.2330	0.0751	0.0116
17	55.2400	0.4000	3571.9200	591.7602	0.0820	0.0136
18	55.2525	0.4125	3773.3850	637.6626	0.0866	0.0146
19	55.2650	0.4250	3974.8500	686.0836	0.0912	0.0158
20	55.2775	0.4375	4176.3150	737.0232	0.0959	0.0169
21	55.2900	0.4500	4377.7800	790.4814	0.1005	0.0181
22	55.3025	0.4625	4579.2450	846.4581	0.1051	0.0194
23	55.3150	0.4750	4780.7100	904.9533	0.1098	0.0208
24	55.3275	0.4875	4982.1750	965.9670	0.1144	0.0222
25	55.3400	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	55.3525	0.5125	5439.5550	1095.8877	0.1249	0.0252
27	55.3650	0.5250	5695.4700	1165.4755	0.1308	0.0268
28	55.3775	0.5375	5951.3850	1238.2625	0.1366	0.0284
29	55.3900	0.5500	6207.3000	1314.2486	0.1425	0.0302
30	55.4025	0.5625	6463.2150	1393.4340	0.1484	0.0320
31	55.4150	0.5750	6719.1300	1475.8184	0.1542	0.0339
32	55.4275	0.5875	6975.0450	1561.4020	0.1601	0.0358
33	55.4400	0.6000	7230.9600	1650.1848	0.1660	0.0379
34	55.4650	0.6250	7824.4650	1838.3288	0.1796	0.0422
35	55.4900	0.6500	8417.9700	2041.3141	0.1932	0.0469
36	55.5150	0.6750	9011.4750	2259.1400	0.2069	0.0519
37	55.5400	0.7000	9604.9800	2491.8063	0.2205	0.0572
38	55.5650	0.7250	10198.4850	2739.3125	0.2341	0.0629
39	55.5900	0.7500	10791.9900	3001.6585	0.2478	0.0689
40	55.6150	0.7750	11385.4950	3278.8440	0.2614	0.0753
41	55.6400	0.8000	11979.0000	3570.8687	0.2750	0.0820
42	55.6650	0.8250	12567.0600	3877.6651	0.2885	0.0890
43	55.6900	0.8500	13155.1200	4199.1644	0.3020	0.0964
44	55.7150	0.8750	13743.1800	4535.3663	0.3155	0.1041
45	55.7400	0.9000	14331.2400	4886.2709	0.3290	0.1122
46	55.7650	0.9250	14919.3000	5251.8780	0.3425	0.1206
47	55.7900	0.9500	15507.3600	5632.1876	0.3560	0.1293
48	55.8150	0.9750	16095.4200	6027.1995	0.3695	0.1384
49	55.8400	1.0000	16683.4800	6436.9138	0.3830	0.1478
50	71.4600	16.6200	16683.4800	267032.8714	0.3830	6.1302

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| Variable storage data for node | H-3a
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	55.6700	0.0000	4.3560	0.0000	0.0001	0.0000
2	55.6950	0.0250	150.8265	1.5068	0.0035	0.0000
3	55.7200	0.0500	297.2970	7.0058	0.0068	0.0002
4	55.7450	0.0750	443.7675	16.2082	0.0102	0.0004
5	55.7700	0.1000	590.2380	29.0898	0.0135	0.0007
6	55.7950	0.1250	736.7085	45.6428	0.0169	0.0010
7	55.8200	0.1500	883.1790	65.8638	0.0203	0.0015
8	55.8450	0.1750	1029.6495	89.7507	0.0236	0.0021
9	55.8700	0.2000	1176.1200	117.3026	0.0270	0.0027
10	55.8950	0.2250	1475.5950	150.3783	0.0339	0.0035
11	55.9200	0.2500	1775.0700	190.9540	0.0408	0.0044
12	55.9450	0.2750	2074.5450	239.0256	0.0476	0.0055
13	55.9700	0.3000	2374.0200	294.5906	0.0545	0.0068
14	55.9950	0.3250	2673.4950	357.6475	0.0614	0.0082
15	56.0200	0.3500	2972.9700	428.1952	0.0683	0.0098
16	56.0450	0.3750	3272.4450	506.2330	0.0751	0.0116
17	56.0700	0.4000	3571.9200	591.7602	0.0820	0.0136
18	56.0825	0.4125	3773.3850	637.6626	0.0866	0.0146
19	56.0950	0.4250	3974.8500	686.0836	0.0912	0.0158
20	56.1075	0.4375	4176.3150	737.0232	0.0959	0.0169
21	56.1200	0.4500	4377.7800	790.4814	0.1005	0.0181
22	56.1325	0.4625	4579.2450	846.4581	0.1051	0.0194
23	56.1450	0.4750	4780.7100	904.9533	0.1098	0.0208
24	56.1575	0.4875	4982.1750	965.9670	0.1144	0.0222
25	56.1700	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	56.1825	0.5125	5439.5550	1095.8877	0.1249	0.0252
27	56.1950	0.5250	5695.4700	1165.4755	0.1308	0.0268
28	56.2075	0.5375	5951.3850	1238.2625	0.1366	0.0284
29	56.2200	0.5500	6207.3000	1314.2486	0.1425	0.0302
30	56.2325	0.5625	6463.2150	1393.4340	0.1484	0.0320
31	56.2450	0.5750	6719.1300	1475.8184	0.1542	0.0339
32	56.2575	0.5875	6975.0450	1561.4020	0.1601	0.0358
33	56.2700	0.6000	7230.9600	1650.1848	0.1660	0.0379
34	56.2950	0.6250	7824.4650	1838.3288	0.1796	0.0422
35	56.3200	0.6500	8417.9700	2041.3141	0.1932	0.0469
36	56.3450	0.6750	9011.4750	2259.1400	0.2069	0.0519
37	56.3700	0.7000	9604.9800	2491.8063	0.2205	0.0572
38	56.3950	0.7250	10198.4850	2739.3125	0.2341	0.0629
39	56.4200	0.7500	10791.9900	3001.6585	0.2478	0.0689
40	56.4450	0.7750	11385.4950	3278.8440	0.2614	0.0753
41	56.4700	0.8000	11979.0000	3570.8687	0.2750	0.0820
42	56.4950	0.8250	12567.0600	3877.6651	0.2885	0.0890
43	56.5200	0.8500	13155.1200	4199.1644	0.3020	0.0964
44	56.5450	0.8750	13743.1800	4535.3663	0.3155	0.1041
45	56.5700	0.9000	14331.2400	4886.2709	0.3290	0.1122
46	56.5950	0.9250	14919.3000	5251.8780	0.3425	0.1206
47	56.6200	0.9500	15507.3600	5632.1876	0.3560	0.1293
48	56.6450	0.9750	16095.4200	6027.1995	0.3695	0.1384
49	56.6700	1.0000	16683.4800	6436.9138	0.3830	0.1478
50	69.3600	13.6900	16683.4800	218150.2750	0.3830	5.0080

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| Variable storage data for node | H-3
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft

1	56.7000	0.0000	4.3560	0.0000	0.0001	0.0000
2	56.7250	0.0250	150.8265	1.5068	0.0035	0.0000
3	56.7500	0.0500	297.2970	7.0058	0.0068	0.0002
4	56.7750	0.0750	443.7675	16.2082	0.0102	0.0004
5	56.8000	0.1000	590.2380	29.0898	0.0135	0.0007
6	56.8250	0.1250	736.7085	45.6428	0.0169	0.0010
7	56.8500	0.1500	883.1790	65.8638	0.0203	0.0015
8	56.8750	0.1750	1029.6495	89.7507	0.0236	0.0021
9	56.9000	0.2000	1176.1200	117.3026	0.0270	0.0027
10	56.9250	0.2250	1475.5950	150.3783	0.0339	0.0035
11	56.9500	0.2500	1775.0700	190.9540	0.0408	0.0044
12	56.9750	0.2750	2074.5450	239.0256	0.0476	0.0055
13	57.0000	0.3000	2374.0200	294.5906	0.0545	0.0068
14	57.0250	0.3250	2673.4950	357.6475	0.0614	0.0082
15	57.0500	0.3500	2972.9700	428.1952	0.0683	0.0098
16	57.0750	0.3750	3272.4450	506.2330	0.0751	0.0116
17	57.1000	0.4000	3571.9200	591.7602	0.0820	0.0136
18	57.1125	0.4125	3773.3850	637.6626	0.0866	0.0146
19	57.1250	0.4250	3974.8500	686.0836	0.0912	0.0158
20	57.1375	0.4375	4176.3150	737.0232	0.0959	0.0169
21	57.1500	0.4500	4377.7800	790.4814	0.1005	0.0181
22	57.1625	0.4625	4579.2450	846.4581	0.1051	0.0194
23	57.1750	0.4750	4780.7100	904.9533	0.1098	0.0208
24	57.1875	0.4875	4982.1750	965.9670	0.1144	0.0222
25	57.2000	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	57.2125	0.5125	5439.5550	1095.8877	0.1249	0.0252
27	57.2250	0.5250	5695.4700	1165.4755	0.1308	0.0268
28	57.2375	0.5375	5951.3850	1238.2625	0.1366	0.0284
29	57.2500	0.5500	6207.3000	1314.2486	0.1425	0.0302
30	57.2625	0.5625	6463.2150	1393.4340	0.1484	0.0320
31	57.2750	0.5750	6719.1300	1475.8184	0.1542	0.0339
32	57.2875	0.5875	6975.0450	1561.4020	0.1601	0.0358
33	57.3000	0.6000	7230.9600	1650.1848	0.1660	0.0379
34	57.3250	0.6250	7824.4650	1838.3288	0.1796	0.0422
35	57.3500	0.6500	8417.9700	2041.3141	0.1932	0.0469
36	57.3750	0.6750	9011.4750	2259.1400	0.2069	0.0519
37	57.4000	0.7000	9604.9800	2491.8063	0.2205	0.0572
38	57.4250	0.7250	10198.4850	2739.3125	0.2341	0.0629
39	57.4500	0.7500	10791.9900	3001.6585	0.2478	0.0689
40	57.4750	0.7750	11385.4950	3278.8440	0.2614	0.0753
41	57.5000	0.8000	11979.0000	3570.8687	0.2750	0.0820
42	57.5250	0.8250	12567.0600	3877.6651	0.2885	0.0890
43	57.5500	0.8500	13155.1200	4199.1644	0.3020	0.0964
44	57.5750	0.8750	13743.1800	4535.3663	0.3155	0.1041
45	57.6000	0.9000	14331.2400	4886.2709	0.3290	0.1122
46	57.6250	0.9250	14919.3000	5251.8780	0.3425	0.1206
47	57.6500	0.9500	15507.3600	5632.1876	0.3560	0.1293
48	57.6750	0.9750	16095.4200	6027.1995	0.3695	0.1384
49	57.7000	1.0000	16683.4800	6436.9138	0.3830	0.1478
50	69.3600	12.6600	16683.4800	200966.2906	0.3830	4.6136

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| Variable storage data for node | MH-7s
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	56.1100	0.0000	435.6000	0.0000	0.0100	0.0000
2	56.1562	0.0462	108627.7500	1787.4419	2.4937	0.0410
3	56.2025	0.0925	216819.9000	9170.7364	4.9775	0.2105
4	56.2488	0.1387	325012.0500	21686.4893	7.4612	0.4962
5	56.2950	0.1850	433204.2000	39090.4324	9.9450	0.8974
6	56.3413	0.2313	541396.3500	61581.6358	12.4287	1.4137
7	56.3875	0.2775	649588.5000	89085.2015	14.9125	2.0451
8	56.4337	0.3237	757780.6500	121598.5092	17.3962	2.7915
9	56.4800	0.3700	865972.8000	159119.9924	19.8800	3.6529
10	56.6050	0.4950	1124719.200	283186.4233	25.8200	6.5011
11	56.7300	0.6200	1383465.600	439669.1828	31.7600	10.0934
12	56.8550	0.7450	1642212.000	628543.1185	37.7000	14.4294
13	56.9800	0.8700	1900958.400	849794.1781	43.6400	19.5086
14	57.1050	0.9950	2159704.800	1.103414E+06	49.5800	25.3309
15	57.2300	1.1200	2418451.200	1.389396E+06	55.5200	31.8961
16	57.3550	1.2450	2677197.600	1.707737E+06	61.4600	39.2042
17	57.4800	1.3700	2935944.000	2.058434E+06	67.4000	47.2551
18	57.6050	1.4950	3125157.750	2.437191E+06	71.7438	55.9502
19	57.7300	1.6200	3314371.500	2.839604E+06	76.0875	65.1883
20	57.8550	1.7450	3503585.250	3.265672E+06	80.4313	74.9695
21	57.9800	1.8700	3692799.000	3.715394E+06	84.7750	85.2937
22	58.1050	1.9950	3882012.750	4.188770E+06	89.1188	96.1609
23	58.2300	2.1200	4071226.500	4.685801E+06	93.4625	107.5712
24	58.3550	2.2450	4260440.250	5.206485E+06	97.8062	119.5245
25	58.4800	2.3700	4449654.000	5.750823E+06	102.1500	132.0207
26	71.6300	15.5200	4449654.000	64.263774E+06	102.1500	1475.2932

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| Variable storage data for node | DET-4C
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	57.2010	0.0000	43.5600	0.0000	0.0010	0.0000
2	57.3623	0.1613	19204.5150	1083.7454	0.4409	0.0249
3	57.5235	0.3225	38365.4700	5637.1157	0.8808	0.1294
4	57.6848	0.4838	57526.4250	13316.4274	1.3206	0.3057
5	57.8460	0.6450	76687.3800	24100.4678	1.7605	0.5533
6	58.0072	0.8063	95848.3350	37982.4772	2.2004	0.8720
7	58.1685	0.9675	115009.2900	54959.4276	2.6402	1.2617
8	58.3298	1.1288	134170.2450	75029.6994	3.0801	1.7224
9	58.4910	1.2900	153331.2000	98192.3244	3.5200	2.2542
10	58.6160	1.4150	154202.4000	117413.1487	3.5400	2.6954
11	58.7410	1.5400	155073.6000	136742.8732	3.5600	3.1392
12	58.8660	1.6650	155944.8000	156181.4977	3.5800	3.5854
13	58.9910	1.7900	156816.0000	175729.0225	3.6000	4.0342
14	59.1160	1.9150	157687.2000	195385.4473	3.6200	4.4854
15	59.2410	2.0400	158558.4000	215150.7723	3.6400	4.9392
16	59.3660	2.1650	159429.6000	235024.9975	3.6600	5.3954
17	59.4910	2.2900	160300.8000	255008.1227	3.6800	5.8542
18	59.6160	2.4150	161172.0000	275100.1481	3.7000	6.3154
19	59.7410	2.5400	162043.2000	295301.0737	3.7200	6.7792
20	59.8660	2.6650	162914.4000	315610.8994	3.7400	7.2454
21	59.9910	2.7900	163785.6000	336029.6252	3.7600	7.7142
22	60.1160	2.9150	164656.8000	356557.2511	3.7800	8.1854
23	60.2410	3.0400	165528.0000	377193.7771	3.8000	8.6592
24	60.3660	3.1650	166399.2000	397939.2033	3.8200	9.1354
25	60.4910	3.2900	167270.4000	418793.5296	3.8400	9.6142
26	60.6160	3.4150	168196.0500	439760.1561	3.8613	10.0955
27	60.7410	3.5400	169121.7000	460842.4891	3.8825	10.5795
28	60.8660	3.6650	170047.3500	482040.5284	3.9037	11.0661
29	60.9910	3.7900	170973.0000	503354.2741	3.9250	11.5554
30	61.1160	3.9150	171898.6500	524783.7262	3.9462	12.0474
31	61.2410	4.0400	172824.3000	546328.8847	3.9675	12.5420
32	61.3660	4.1650	173749.9500	567989.7495	3.9887	13.0393
33	61.4910	4.2900	174675.6000	589766.3208	4.0100	13.5392
34	61.6160	4.4150	175601.2500	611658.5984	4.0312	14.0417
35	61.7410	4.5400	176526.9000	633666.5825	4.0525	14.5470
36	61.8660	4.6650	177452.5500	655790.2729	4.0737	15.0549
37	61.9910	4.7900	178378.2000	678029.6697	4.0950	15.5654

38	62.1160	4.9150	179303.8500	700384.7728	4.1162	16.0786
39	62.2410	5.0400	180229.5000	722855.5824	4.1375	16.5945
40	62.3660	5.1650	181155.1500	745442.0983	4.1587	17.1130
41	62.4910	5.2900	182080.8000	768144.3206	4.1800	17.6342
42	62.6160	5.4150	183006.4500	790962.2493	4.2012	18.1580
43	62.7410	5.5400	183932.1000	813895.8843	4.2225	18.6845
44	62.8660	5.6650	184857.7500	836945.2258	4.2437	19.2136
45	62.9910	5.7900	185783.4000	860110.2736	4.2650	19.7454
46	63.1160	5.9150	186709.0500	883391.0277	4.2862	20.2799
47	63.2410	6.0400	187634.7000	906787.4883	4.3075	20.8170
48	63.3660	6.1650	188560.3500	930299.6552	4.3287	21.3567
49	63.4910	6.2900	189486.0000	953927.5284	4.3500	21.8992
50	63.6160	6.4150	190411.6500	977671.1080	4.3712	22.4442
51	63.7410	6.5400	191337.3000	1.001530E+06	4.3925	22.9920
52	63.8660	6.6650	192262.9500	1.025505E+06	4.4137	23.5424
53	63.9910	6.7900	193188.6000	1.049596E+06	4.4350	24.0954
54	64.1160	6.9150	194114.2500	1.073802E+06	4.4562	24.6511
55	64.2410	7.0400	195039.9000	1.098125E+06	4.4775	25.2095
56	64.3660	7.1650	195965.5500	1.122562E+06	4.4987	25.7705
57	64.4910	7.2900	196891.2000	1.147116E+06	4.5200	26.3342
58	64.6160	7.4150	197871.3000	1.171789E+06	4.5425	26.9006
59	64.7410	7.5400	198851.4000	1.196584E+06	4.5650	27.4698
60	64.8660	7.6650	199831.5000	1.221501E+06	4.5875	28.0418
61	64.9910	7.7900	200811.6000	1.246542E+06	4.6100	28.6167
62	65.1160	7.9150	201791.7000	1.271704E+06	4.6325	29.1943
63	65.2410	8.0400	202771.8000	1.296989E+06	4.6550	29.7748
64	65.3660	8.1650	203751.9000	1.322397E+06	4.6775	30.3581
65	65.4910	8.2900	204732.0000	1.347927E+06	4.7000	30.9442
66	65.6160	8.4150	205766.5500	1.373583E+06	4.7237	31.5331
67	65.7410	8.5400	206801.1000	1.399369E+06	4.7475	32.1251
68	65.8660	8.6650	207835.6500	1.425284E+06	4.7713	32.7200
69	65.9910	8.7900	208870.2000	1.451328E+06	4.7950	33.3179
70	66.1160	8.9150	209904.7500	1.477501E+06	4.8187	33.9188
71	66.2410	9.0400	210939.3000	1.503804E+06	4.8425	34.5226
72	66.3660	9.1650	211973.8500	1.530236E+06	4.8662	35.1294
73	66.4910	9.2900	213008.4000	1.556797E+06	4.8900	35.7391
74	66.6160	9.4150	213988.5000	1.583485E+06	4.9125	36.3518
75	66.7410	9.5400	214968.6000	1.610294E+06	4.9350	36.9673
76	66.8660	9.6650	215948.7000	1.637227E+06	4.9575	37.5856
77	66.9910	9.7900	216928.8000	1.664282E+06	4.9800	38.2066
78	67.1160	9.9150	217908.9000	1.691459E+06	5.0025	38.8306
79	67.2410	10.0400	218889.0000	1.718759E+06	5.0250	39.4573
80	67.3660	10.1650	219869.1000	1.746181E+06	5.0475	40.0868
81	67.4910	10.2900	220849.2000	1.773726E+06	5.0700	40.7191
82	67.6160	10.4150	221883.7500	1.801397E+06	5.0938	41.3544
83	67.7410	10.5400	222918.3000	1.829197E+06	5.1175	41.9926
84	67.8660	10.6650	223952.8500	1.857126E+06	5.1413	42.6338
85	67.9910	10.7900	224987.4000	1.885185E+06	5.1650	43.2779
86	68.1160	10.9150	226021.9500	1.913373E+06	5.1887	43.9250
87	68.2410	11.0400	227056.5000	1.941690E+06	5.2125	44.5751
88	68.3660	11.1650	228091.0500	1.970137E+06	5.2363	45.2281
89	68.4910	11.2900	229125.6000	1.998713E+06	5.2600	45.8841
90	68.6160	11.4150	230160.1500	2.027418E+06	5.2837	46.5431
91	68.7410	11.5400	231194.7000	2.056253E+06	5.3075	47.2051
92	68.8660	11.6650	232229.2500	2.085217E+06	5.3312	47.8700
93	68.9910	11.7900	233263.8000	2.114310E+06	5.3550	48.5379
94	69.1160	11.9150	234298.3500	2.143533E+06	5.3788	49.2087
95	69.2410	12.0400	235332.9000	2.172885E+06	5.4025	49.8826
96	69.3660	12.1650	236367.4500	2.202366E+06	5.4263	50.5594
97	69.4910	12.2900	237402.0000	2.231977E+06	5.4500	51.2391
98	69.6160	12.4150	238491.0000	2.261720E+06	5.4750	51.9219
99	69.7410	12.5400	239580.0000	2.291590E+06	5.5000	52.6079
100	69.8660	12.6650	240669.0000	2.321615E+06	5.5250	53.2969
101	69.9910	12.7900	241758.0000	2.351767E+06	5.5500	53.9891
102	70.1160	12.9150	242847.0000	2.382054E+06	5.5750	54.6844
103	70.2410	13.0400	243936.0000	2.412478E+06	5.6000	55.3829
104	70.3660	13.1650	245025.0000	2.443038E+06	5.6250	56.0844
105	70.4910	13.2900	246114.0000	2.473735E+06	5.6500	56.7891
106	70.6160	13.4150	247203.0000	2.504567E+06	5.6750	57.4969
107	70.7410	13.5400	248292.0000	2.535535E+06	5.7000	58.2079
108	70.8660	13.6650	249381.0000	2.566640E+06	5.7250	58.9219
109	70.9910	13.7900	250470.0000	2.597880E+06	5.7500	59.6391
110	71.1160	13.9150	251559.0000	2.629257E+06	5.7750	60.3594
111	71.2410	14.0400	252648.0000	2.660770E+06	5.8000	61.0829
112	71.3660	14.1650	253737.0000	2.692419E+06	5.8250	61.8094
113	71.4910	14.2900	254826.0000	2.724204E+06	5.8500	62.5391
114	72.5000	15.2990	254826.0000	2.981324E+06	5.8500	68.4418

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| Variable storage data for node | E-11
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	63.8700	0.0000	4.3560	0.0000	0.0001	0.0000
2	63.8950	0.0250	150.8265	1.5068	0.0035	0.0000
3	63.9200	0.0500	297.2970	7.0058	0.0068	0.0002
4	63.9450	0.0750	443.7675	16.2082	0.0102	0.0004
5	63.9700	0.1000	590.2380	29.0898	0.0135	0.0007
6	63.9950	0.1250	736.7085	45.6428	0.0169	0.0010
7	64.0200	0.1500	883.1790	65.8638	0.0203	0.0015
8	64.0450	0.1750	1029.6495	89.7507	0.0236	0.0021
9	64.0700	0.2000	1176.1200	117.3026	0.0270	0.0027
10	64.0950	0.2250	1475.5950	150.3783	0.0339	0.0035
11	64.1200	0.2500	1775.0700	190.9540	0.0408	0.0044
12	64.1450	0.2750	2074.5450	239.0256	0.0476	0.0055
13	64.1700	0.3000	2374.0200	294.5906	0.0545	0.0068
14	64.1950	0.3250	2673.4950	357.6475	0.0614	0.0082
15	64.2200	0.3500	2972.9700	428.1952	0.0683	0.0098
16	64.2450	0.3750	3272.4450	506.2330	0.0751	0.0116
17	64.2700	0.4000	3571.9200	591.7602	0.0820	0.0136
18	64.2825	0.4125	3773.3850	637.6626	0.0866	0.0146
19	64.2950	0.4250	3974.8500	686.0836	0.0912	0.0158
20	64.3075	0.4375	4176.3150	737.0232	0.0959	0.0169
21	64.3200	0.4500	4377.7800	790.4814	0.1005	0.0181
22	64.3325	0.4625	4579.2450	846.4581	0.1051	0.0194
23	64.3450	0.4750	4780.7100	904.9533	0.1098	0.0208
24	64.3575	0.4875	4982.1750	965.9670	0.1144	0.0222
25	64.3700	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	64.3825	0.5125	5439.5550	1095.8877	0.1249	0.0252
27	64.3950	0.5250	5695.4700	1165.4755	0.1308	0.0268
28	64.4075	0.5375	5951.3850	1238.2625	0.1366	0.0284
29	64.4200	0.5500	6207.3000	1314.2486	0.1425	0.0302
30	64.4325	0.5625	6463.2150	1393.4340	0.1484	0.0320
31	64.4450	0.5750	6719.1300	1475.8184	0.1542	0.0339
32	64.4575	0.5875	6975.0450	1561.4020	0.1601	0.0358
33	64.4700	0.6000	7230.9600	1650.1848	0.1660	0.0379
34	64.4950	0.6250	7824.4650	1838.3288	0.1796	0.0422
35	64.5200	0.6500	8417.9700	2041.3141	0.1932	0.0469
36	64.5450	0.6750	9011.4750	2259.1400	0.2069	0.0519
37	64.5700	0.7000	9604.9800	2491.8063	0.2205	0.0572
38	64.5950	0.7250	10198.4850	2739.3125	0.2341	0.0629
39	64.6200	0.7500	10791.9900	3001.6585	0.2478	0.0689
40	64.6450	0.7750	11385.4950	3278.8440	0.2614	0.0753
41	64.6700	0.8000	11979.0000	3570.8687	0.2750	0.0820
42	64.6950	0.8250	12567.0600	3877.6651	0.2885	0.0890
43	64.7200	0.8500	13155.1200	4199.1644	0.3020	0.0964
44	64.7450	0.8750	13743.1800	4535.3663	0.3155	0.1041

45	64.7700	0.9000	14331.2400	4886.2709	0.3290	0.1122
46	64.7950	0.9250	14919.3000	5251.8780	0.3425	0.1206
47	64.8200	0.9500	15507.3600	5632.1876	0.3560	0.1293
48	64.8450	0.9750	16095.4200	6027.1995	0.3695	0.1384
49	64.8700	1.0000	16683.4800	6436.9138	0.3830	0.1478
50	71.2700	7.4000	16683.4800	113211.1858	0.3830	2.5990

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| Variable storage data for node | E-9
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	64.8200	0.0000	4.3560	0.0000	0.0001	0.0000
2	64.8450	0.0250	150.8265	1.5068	0.0035	0.0000
3	64.8700	0.0500	297.2970	7.0058	0.0068	0.0002
4	64.8950	0.0750	443.7675	16.2082	0.0102	0.0004
5	64.9200	0.1000	590.2380	29.0898	0.0135	0.0007
6	64.9450	0.1250	736.7085	45.6428	0.0169	0.0010
7	64.9700	0.1500	883.1790	65.8638	0.0203	0.0015
8	64.9950	0.1750	1029.6495	89.7507	0.0236	0.0021
9	65.0200	0.2000	1176.1200	117.3026	0.0270	0.0027
10	65.0450	0.2250	1475.5950	150.3783	0.0339	0.0035
11	65.0700	0.2500	1775.0700	190.9540	0.0408	0.0044
12	65.0950	0.2750	2074.5450	239.0256	0.0476	0.0055
13	65.1200	0.3000	2374.0200	294.5906	0.0545	0.0068
14	65.1450	0.3250	2673.4950	357.6475	0.0614	0.0082
15	65.1700	0.3500	2972.9700	428.1952	0.0683	0.0098
16	65.1950	0.3750	3272.4450	506.2330	0.0751	0.0116
17	65.2200	0.4000	3571.9200	591.7602	0.0820	0.0136
18	65.2325	0.4125	3773.3850	637.6626	0.0866	0.0146
19	65.2450	0.4250	3974.8500	686.0836	0.0912	0.0158
20	65.2575	0.4375	4176.3150	737.0232	0.0959	0.0169
21	65.2700	0.4500	4377.7800	790.4814	0.1005	0.0181
22	65.2825	0.4625	4579.2450	846.4581	0.1051	0.0194
23	65.2950	0.4750	4780.7100	904.9533	0.1098	0.0208
24	65.3075	0.4875	4982.1750	965.9670	0.1144	0.0222
25	65.3200	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	65.3325	0.5125	5439.5550	1095.8877	0.1249	0.0252
27	65.3450	0.5250	5695.4700	1165.4755	0.1308	0.0268
28	65.3575	0.5375	5951.3850	1238.2625	0.1366	0.0284
29	65.3700	0.5500	6207.3000	1314.2486	0.1425	0.0302
30	65.3825	0.5625	6463.2150	1393.4340	0.1484	0.0320
31	65.3950	0.5750	6719.1300	1475.8184	0.1542	0.0339
32	65.4075	0.5875	6975.0450	1561.4020	0.1601	0.0358
33	65.4200	0.6000	7230.9600	1650.1848	0.1660	0.0379
34	65.4450	0.6250	7824.4650	1838.3288	0.1796	0.0422
35	65.4700	0.6500	8417.9700	2041.3141	0.1932	0.0469
36	65.4950	0.6750	9011.4750	2259.1400	0.2069	0.0519
37	65.5200	0.7000	9604.9800	2491.8063	0.2205	0.0572
38	65.5450	0.7250	10198.4850	2739.3125	0.2341	0.0629
39	65.5700	0.7500	10791.9900	3001.6585	0.2478	0.0689
40	65.5950	0.7750	11385.4950	3278.8440	0.2614	0.0753
41	65.6200	0.8000	11979.0000	3570.8687	0.2750	0.0820
42	65.6450	0.8250	12567.0600	3877.6651	0.2885	0.0890
43	65.6700	0.8500	13155.1200	4199.1644	0.3020	0.0964
44	65.6950	0.8750	13743.1800	4535.3663	0.3155	0.1041
45	65.7200	0.9000	14331.2400	4886.2709	0.3290	0.1122
46	65.7450	0.9250	14919.3000	5251.8780	0.3425	0.1206
47	65.7700	0.9500	15507.3600	5632.1876	0.3560	0.1293
48	65.7950	0.9750	16095.4200	6027.1995	0.3695	0.1384
49	65.8200	1.0000	16683.4800	6436.9138	0.3830	0.1478
50	72.1000	7.2800	16683.4800	111209.1682	0.3830	2.5530

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| Variable storage data for node | E-8
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	65.0200	0.0000	4.3560	0.0000	0.0001	0.0000
2	65.0450	0.0250	150.8265	1.5068	0.0035	0.0000
3	65.0700	0.0500	297.2970	7.0058	0.0068	0.0002
4	65.0950	0.0750	443.7675	16.2082	0.0102	0.0004
5	65.1200	0.1000	590.2380	29.0898	0.0135	0.0007
6	65.1450	0.1250	736.7085	45.6428	0.0169	0.0010
7	65.1700	0.1500	883.1790	65.8638	0.0203	0.0015
8	65.1950	0.1750	1029.6495	89.7507	0.0236	0.0021
9	65.2200	0.2000	1176.1200	117.3026	0.0270	0.0027
10	65.2450	0.2250	1475.5950	150.3783	0.0339	0.0035
11	65.2700	0.2500	1775.0700	190.9540	0.0408	0.0044
12	65.2950	0.2750	2074.5450	239.0256	0.0476	0.0055
13	65.3200	0.3000	2374.0200	294.5906	0.0545	0.0068
14	65.3450	0.3250	2673.4950	357.6475	0.0614	0.0082
15	65.3700	0.3500	2972.9700	428.1952	0.0683	0.0098
16	65.3950	0.3750	3272.4450	506.2330	0.0751	0.0116
17	65.4200	0.4000	3571.9200	591.7602	0.0820	0.0136
18	65.4325	0.4125	3773.3850	637.6626	0.0866	0.0146
19	65.4450	0.4250	3974.8500	686.0836	0.0912	0.0158
20	65.4575	0.4375	4176.3150	737.0232	0.0959	0.0169
21	65.4700	0.4500	4377.7800	790.4814	0.1005	0.0181
22	65.4825	0.4625	4579.2450	846.4581	0.1051	0.0194
23	65.4950	0.4750	4780.7100	904.9533	0.1098	0.0208
24	65.5075	0.4875	4982.1750	965.9670	0.1144	0.0222
25	65.5200	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	65.5325	0.5125	5439.5550	1095.8877	0.1249	0.0252
27	65.5450	0.5250	5695.4700	1165.4755	0.1308	0.0268
28	65.5575	0.5375	5951.3850	1238.2625	0.1366	0.0284
29	65.5700	0.5500	6207.3000	1314.2486	0.1425	0.0302
30	65.5825	0.5625	6463.2150	1393.4340	0.1484	0.0320
31	65.5950	0.5750	6719.1300	1475.8184	0.1542	0.0339
32	65.6075	0.5875	6975.0450	1561.4020	0.1601	0.0358
33	65.6200	0.6000	7230.9600	1650.1848	0.1660	0.0379
34	65.6450	0.6250	7824.4650	1838.3288	0.1796	0.0422
35	65.6700	0.6500	8417.9700	2041.3141	0.1932	0.0469
36	65.6950	0.6750	9011.4750	2259.1400	0.2069	0.0519
37	65.7200	0.7000	9604.9800	2491.8063	0.2205	0.0572
38	65.7450	0.7250	10198.4850	2739.3125	0.2341	0.0629
39	65.7700	0.7500	10791.9900	3001.6585	0.2478	0.0689
40	65.7950	0.7750	11385.4950	3278.8440	0.2614	0.0753
41	65.8200	0.8000	11979.0000	3570.8687	0.2750	0.0820
42	65.8450	0.8250	12567.0600	3877.6651	0.2885	0.0890
43	65.8700	0.8500	13155.1200	4199.1644	0.3020	0.0964
44	65.8950	0.8750	13743.1800	4535.3663	0.3155	0.1041
45	65.9200	0.9000	14331.2400	4886.2709	0.3290	0.1122
46	65.9450	0.9250	14919.3000	5251.8780	0.3425	0.1206
47	65.9700	0.9500	15507.3600	5632.1876	0.3560	0.1293
48	65.9950	0.9750	16095.4200	6027.1995	0.3695	0.1384
49	66.0200	1.0000	16683.4800	6436.9138	0.3830	0.1478
50	72.7700	7.7500	16683.4800	119050.4038	0.3830	2.7330

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| Variable storage data for node | F-5
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	62.6760	0.0000	4.3560	0.0000	0.0001	0.0000

2	62.7010	0.0250	150.8265	1.5068	0.0035	0.0000
3	62.7260	0.0500	297.2970	7.0058	0.0068	0.0002
4	62.7510	0.0750	443.7675	16.2082	0.0102	0.0004
5	62.7760	0.1000	590.2380	29.0898	0.0135	0.0007
6	62.8010	0.1250	736.7085	45.6428	0.0169	0.0010
7	62.8260	0.1500	883.1790	65.8638	0.0203	0.0015
8	62.8510	0.1750	1029.6495	89.7507	0.0236	0.0021
9	62.8760	0.2000	1176.1200	117.3026	0.0270	0.0027
10	62.9010	0.2250	1475.5950	150.3783	0.0339	0.0035
11	62.9260	0.2500	1775.0700	190.9540	0.0408	0.0044
12	62.9510	0.2750	2074.5450	239.0256	0.0476	0.0055
13	62.9760	0.3000	2374.0200	294.5906	0.0545	0.0068
14	63.0010	0.3250	2673.4950	357.6475	0.0614	0.0082
15	63.0260	0.3500	2972.9700	428.1952	0.0683	0.0098
16	63.0510	0.3750	3272.4450	506.2330	0.0751	0.0116
17	63.0760	0.4000	3571.9200	591.7602	0.0820	0.0136
18	63.0885	0.4125	3773.3850	637.6626	0.0866	0.0146
19	63.1010	0.4250	3974.8500	686.0836	0.0912	0.0158
20	63.1135	0.4375	4176.3150	737.0232	0.0959	0.0169
21	63.1260	0.4500	4377.7800	790.4814	0.1005	0.0181
22	63.1385	0.4625	4579.2450	846.4581	0.1051	0.0194
23	63.1510	0.4750	4780.7100	904.9533	0.1098	0.0208
24	63.1635	0.4875	4982.1750	965.9670	0.1144	0.0222
25	63.1760	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	63.1885	0.5125	5439.5550	1095.8877	0.1249	0.0252
27	63.2010	0.5250	5695.4700	1165.4755	0.1308	0.0268
28	63.2135	0.5375	5951.3850	1238.2625	0.1366	0.0284
29	63.2260	0.5500	6207.3000	1314.2486	0.1425	0.0302
30	63.2385	0.5625	6463.2150	1393.4340	0.1484	0.0320
31	63.2510	0.5750	6719.1300	1475.8184	0.1542	0.0339
32	63.2635	0.5875	6975.0450	1561.4020	0.1601	0.0358
33	63.2760	0.6000	7230.9600	1650.1848	0.1660	0.0379
34	63.3010	0.6250	7824.4650	1838.3288	0.1796	0.0422
35	63.3260	0.6500	8417.9700	2041.3141	0.1932	0.0469
36	63.3510	0.6750	9011.4750	2259.1400	0.2069	0.0519
37	63.3760	0.7000	9604.9800	2491.8063	0.2205	0.0572
38	63.4010	0.7250	10198.4850	2739.3125	0.2341	0.0629
39	63.4260	0.7500	10791.9900	3001.6585	0.2478	0.0689
40	63.4510	0.7750	11385.4950	3278.8440	0.2614	0.0753
41	63.4760	0.8000	11979.0000	3570.8687	0.2750	0.0820
42	63.5010	0.8250	12567.0600	3877.6651	0.2885	0.0890
43	63.5260	0.8500	13155.1200	4199.1644	0.3020	0.0964
44	63.5510	0.8750	13743.1800	4535.3663	0.3155	0.1041
45	63.5760	0.9000	14331.2400	4886.2709	0.3290	0.1122
46	63.6010	0.9250	14919.3000	5251.8780	0.3425	0.1206
47	63.6260	0.9500	15507.3600	5632.1876	0.3560	0.1293
48	63.6510	0.9750	16095.4200	6027.1995	0.3695	0.1384
49	63.6760	1.0000	16683.4800	6436.9138	0.3830	0.1478
50	69.6700	6.9940	16683.4800	106437.6929	0.3830	2.4435

==================================
| Variable storage data for node | F-6
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Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3	Area acres	Volume ac-ft
1	62.9200	0.0000	4.3560	0.0000	0.0001	0.0000
2	62.9450	0.0250	150.8265	1.5068	0.0035	0.0000
3	62.9700	0.0500	297.2970	7.0058	0.0068	0.0002
4	62.9950	0.0750	443.7675	16.2082	0.0102	0.0004
5	63.0200	0.1000	590.2380	29.0898	0.0135	0.0007
6	63.0450	0.1250	736.7085	45.6428	0.0169	0.0010
7	63.0700	0.1500	883.1790	65.8638	0.0203	0.0015
8	63.0950	0.1750	1029.6495	89.7507	0.0236	0.0021
9	63.1200	0.2000	1176.1200	117.3026	0.0270	0.0027
10	63.1450	0.2250	1475.5950	150.3783	0.0339	0.0035
11	63.1700	0.2500	1775.0700	190.9540	0.0408	0.0044
12	63.1950	0.2750	2074.5450	239.0256	0.0476	0.0055
13	63.2200	0.3000	2374.0200	294.5906	0.0545	0.0068
14	63.2450	0.3250	2673.4950	357.6475	0.0614	0.0082
15	63.2700	0.3500	2972.9700	428.1952	0.0683	0.0098
16	63.2950	0.3750	3272.4450	506.2330	0.0751	0.0116
17	63.3200	0.4000	3571.9200	591.7602	0.0820	0.0136
18	63.3325	0.4125	3773.3850	637.6626	0.0866	0.0146
19	63.3450	0.4250	3974.8500	686.0836	0.0912	0.0158
20	63.3575	0.4375	4176.3150	737.0232	0.0959	0.0169
21	63.3700	0.4500	4377.7800	790.4814	0.1005	0.0181
22	63.3825	0.4625	4579.2450	846.4581	0.1051	0.0194
23	63.3950	0.4750	4780.7100	904.9533	0.1098	0.0208
24	63.4075	0.4875	4982.1750	965.9670	0.1144	0.0222
25	63.4200	0.5000	5183.6400	1029.4991	0.1190	0.0236
26	63.4325	0.5125	5439.5550	1095.8877	0.1249	0.0252
27	63.4450	0.5250	5695.4700	1165.4755	0.1308	0.0268
28	63.4575	0.5375	5951.3850	1238.2625	0.1366	0.0284
29	63.4700	0.5500	6207.3000	1314.2486	0.1425	0.0302
30	63.4825	0.5625	6463.2150	1393.4340	0.1484	0.0320
31	63.4950	0.5750	6719.1300	1475.8184	0.1542	0.0339
32	63.5075	0.5875	6975.0450	1561.4020	0.1601	0.0358
33	63.5200	0.6000	7230.9600	1650.1848	0.1660	0.0379
34	63.5450	0.6250	7824.4650	1838.3288	0.1796	0.0422
35	63.5700	0.6500	8417.9700	2041.3141	0.1932	0.0469
36	63.5950	0.6750	9011.4750	2259.1400	0.2069	0.0519
37	63.6200	0.7000	9604.9800	2491.8063	0.2205	0.0572
38	63.6450	0.7250	10198.4850	2739.3125	0.2341	0.0629
39	63.6700	0.7500	10791.9900	3001.6585	0.2478	0.0689
40	63.6950	0.7750	11385.4950	3278.8440	0.2614	0.0753
41	63.7200	0.8000	11979.0000	3570.8687	0.2750	0.0820
42	63.7450	0.8250	12567.0600	3877.6651	0.2885	0.0890
43	63.7700	0.8500	13155.1200	4199.1644	0.3020	0.0964
44	63.7950	0.8750	13743.1800	4535.3663	0.3155	0.1041
45	63.8200	0.9000	14331.2400	4886.2709	0.3290	0.1122
46	63.8450	0.9250	14919.3000	5251.8780	0.3425	0.1206
47	63.8700	0.9500	15507.3600	5632.1876	0.3560	0.1293
48	63.8950	0.9750	16095.4200	6027.1995	0.3695	0.1384
49	63.9200	1.0000	16683.4800	6436.9138	0.3830	0.1478
50	69.4200	6.5000	16683.4800	98196.0538	0.3830	2.2543

==
| FREE OUTFALL DATA (DATA GROUP I1) |
| BOUNDARY CONDITION ON DATA GROUP J1 |
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Outfall at Junction....E5150100 has boundary condition number... 1
Outfall at Junction....BRCKH00.1 has boundary condition number... 2

==
| INTERNAL CONNECTIVITY INFORMATION |
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CONDUIT	JUNCTION	JUNCTION
FREE # 1	E5150100	BOUNDARY
FREE # 2	BRCKH00.1	BOUNDARY

==
| Boundary Condition Information |

Data Groups J1-J4

XP Note Field Summary

Table E9 - JUNCTION SUMMARY STATISTICS
The Maximum area is only the area of the node, it does not include the area of the surrounding conduits

Junction Name	Ground Elevation feet	Uppermost PipeCrown Elevation feet	Maximum Junction Elevation feet	Time of Occurence Hr.	Min.	Feet of Surcharge at Max Elevation	Freeboard of node feet	Maximum Junction Area ft^2	Maximum Gutter Depth feet	Maximum Gutter Width feet	Maximum Gutter Velocity ft/s
J-H-4b	71.1800	62.8500	71.0325	18	35	8.1825	0.1475	12.5660	0.0000	0.0000	0.0000
J-H-5	70.5700	64.0100	71.0328	18	35	7.0228	0.0000	7942.3563	0.0000	0.0000	0.0000
H-5	69.3600	64.4000	71.0364	18	33	6.6364	0.0000	26731.181	0.0000	0.0000	0.0000
G-3a	70.0300	64.8100	71.0320	18	35	6.2220	0.0000	16683.480	0.0000	0.0000	0.0000
J-H-7	69.3600	64.6900	71.0395	18	31	6.3495	0.0000	26813.706	0.0000	0.0000	0.0000
J-G-3	71.0800	65.1100	71.2425	20	4	6.1325	0.0000	6032.1585	0.0000	0.0000	0.0000
H-7	69.3600	64.8900	71.0426	18	33	6.1526	0.0000	16683.480	0.0000	0.0000	0.0000
G-3	69.3600	65.5700	71.3841	18	38	5.8141	0.0000	37846.196	0.0000	0.0000	0.0000
H-8	69.3600	65.1200	71.0466	18	34	5.9266	0.0000	27004.628	0.0000	0.0000	0.0000
G-4	69.3600	65.9000	71.5347	18	38	5.6347	0.0000	16683.480	0.0000	0.0000	0.0000
H-9	69.3600	65.6100	71.0512	18	32	5.4412	0.0000	16683.480	0.0000	0.0000	0.0000
G-5b	69.3600	66.0000	71.5818	18	38	5.5818	0.0000	46118.358	0.0000	0.0000	0.0000
G-5a	69.3600	66.0900	71.5822	18	40	5.4922	0.0000	16683.480	0.0000	0.0000	0.0000
MH-18s	68.3500	66.4200	72.6571	18	13	6.2371	0.0000	651657.60	0.0000	0.0000	0.0000
G-5	69.3600	66.2400	71.5825	18	38	5.3425	0.0000	46151.229	0.0000	0.0000	0.0000
BRCKH01.0	70.7400	69.5800	69.5093	18	15	0.0000	1.2307	12.5660	0.0000	0.0000	0.0000
F-3	69.3600	64.5800	69.9761	18	14	5.3961	0.0000	7612.6482	0.0000	0.0000	0.0000
G-1b	69.3600	64.1100	69.7290	18	16	5.6190	0.0000	3200.4652	0.0000	0.0000	0.0000
J-F-3	69.6900	64.9800	70.3698	18	11	5.3898	0.0000	9867.3152	0.0000	0.0000	0.0000
J-G-1a	69.5600	62.9100	69.9505	18	17	7.0405	0.0000	3458.1094	0.0000	0.0000	0.0000
F-2	69.3600	65.2800	70.6660	18	10	5.3860	0.0000	16683.480	0.0000	0.0000	0.0000
G-1a	69.3600	63.2900	70.1751	18	21	6.8851	0.0000	11297.128	0.0000	0.0000	0.0000
F-2a	69.3600	65.7970	70.7462	18	9	4.9492	0.0000	19998.801	0.0000	0.0000	0.0000
G-1	69.3600	63.5100	70.3018	18	23	6.7918	0.0000	15315.207	0.0000	0.0000	0.0000
F-1	69.5400	65.8800	71.3518	18	8	5.4718	0.0000	16683.480	0.0000	0.0000	0.0000
COH01	68.0200	66.1410	71.5872	18	31	5.4462	0.0000	202554.00	0.0000	0.0000	0.0000
G-2	69.3600	63.7600	70.4459	18	24	6.6859	0.0000	16683.480	0.0000	0.0000	0.0000
F-1a	70.2400	66.0600	71.5320	18	7	5.4720	0.0000	18200.702	0.0000	0.0000	0.0000
G-2a	69.3600	64.0700	70.6185	18	27	6.5485	0.0000	17600.430	0.0000	0.0000	0.0000
J-E-5	71.8200	66.4800	72.1027	19	0	5.6227	0.0000	6804.7082	0.0000	0.0000	0.0000
J-G-3a	70.7500	64.4200	70.8179	18	30	6.3979	0.0000	5351.2227	0.0000	0.0000	0.0000
E-5	71.4800	66.8800	72.3995	18	1	5.5195	0.0000	14789.484	0.0000	0.0000	0.0000
MH-12s	70.8700	64.5900	70.9522	19	13	6.3622	0.0000	494.2469	0.0000	0.0000	0.0000
E-4a	71.8600	68.8600	72.6367	17	59	3.7767	0.0000	10871.131	0.0000	0.0000	0.0000
E-4	72.1100	69.0000	72.6900	17	58	3.6900	0.0000	6821.8406	0.0000	0.0000	0.0000
MH-14s	71.3700	68.3900	72.6928	17	59	4.3028	0.0000	18768.994	0.0000	0.0000	0.0000
E-3	72.8100	69.8100	73.2117	16	31	3.4017	0.0000	7471.5698	0.0000	0.0000	0.0000
W43rd	72.5700	68.7380	73.1713	16	49	4.4333	0.0000	33658.641	0.0000	0.0000	0.0000
J-E-2	74.3800	70.2010	74.0784	16	30	3.8774	0.3016	12.5660	0.0000	0.0000	0.0000
E-2	74.5300	70.4700	74.6817	16	30	4.2117	0.0000	892.8619	0.0000	0.0000	0.0000
E-1	74.4400	70.8700	75.1499	16	31	4.2799	0.0000	10169.151	0.0000	0.0000	0.0000
E-1a	75.8400	71.2700	75.4770	16	27	4.2070	0.3630	12.5660	0.0000	0.0000	0.0000
BRCKH01.1	71.0000	69.6800	70.7361	18	32	1.0561	0.2639	12.5660	0.0000	0.0000	0.0000
H-1	69.4200	63.4300	69.9163	18	16	6.4863	0.0000	5124.0556	0.0000	0.0000	0.0000
J-H-1	71.4600	62.8400	70.7338	21	9	7.8938	0.7262	12.5660	0.0000	0.0000	0.0000
J-H-2	70.2700	63.2400	70.6071	18	22	7.3671	0.0000	7004.4961	0.0000	0.0000	0.0000
H-2	69.3600	63.4400	70.7769	18	23	7.3369	0.0000	20621.746	0.0000	0.0000	0.0000
H-3a	69.3600	63.6700	70.9762	18	34	7.3062	0.0000	16683.480	0.0000	0.0000	0.0000
H-3b	69.3600	63.7300	71.0280	18	35	7.2980	0.0000	26508.339	0.0000	0.0000	0.0000
H-3	69.3600	61.7120	71.0291	18	35	9.3171	0.0000	16683.480	0.0000	0.0000	0.0000
MH-7s	71.6300	63.1100	72.4654	18	11	9.3554	0.0000	1829354.7	0.0000	0.0000	0.0000
H-4a	69.3600	61.9700	71.0308	18	35	9.0608	0.0000	26582.624	0.0000	0.0000	0.0000
J-H-4a	69.9800	62.0950	71.0315	18	35	8.9365	0.0000	14309.989	0.0000	0.0000	0.0000
DET-4C	72.5000	62.7400	71.0324	18	35	8.2924	1.4676	250830.36	0.0000	0.0000	0.0000
E11504.4	75.1600	74.7200	72.7548	18	1	0.0000	2.4052	12.5660	0.0000	0.0000	0.0000
E-11	71.2700	67.8700	72.7534	18	1	4.8834	0.0000	16683.480	0.0000	0.0000	0.0000
E-10	71.9300	68.9500	72.7481	18	0	4.6981	0.0000	11331.201	0.0000	0.0000	0.0000
J-E-9	72.7700	68.4200	72.7357	18	59	4.3157	0.0343	12.5660	0.0000	0.0000	0.0000
E-9	72.1000	68.8200	72.7230	17	58	3.9030	0.0000	7777.6317	0.0000	0.0000	0.0000
E-8	72.7700	69.0200	72.7236	17	58	3.7036	0.0464	12.5660	0.0000	0.0000	0.0000
E-7	74.0900	69.3200	72.7260	18	0	3.4060	1.3640	12.5660	0.0000	0.0000	0.0000
E-7a	74.5300	69.6600	72.7306	18	0	3.0706	1.7994	12.5660	0.0000	0.0000	0.0000
E-6	76.0100	70.0000	73.2401	16	15	3.2401	2.7699	12.5660	0.0000	0.0000	0.0000
E5150100	70.0000	60.9300	70.8400	17	14	9.9100	0.0000	12.5660	0.0000	0.0000	0.0000
JE5150100	70.3900	61.0940	70.0460	17	51	8.9520	0.3440	12.5660	0.0000	0.0000	0.0000
J-F-5	70.1200	66.5500	70.4382	17	52	3.8882	0.0000	6873.5054	0.0000	0.0000	0.0000
F-5	69.6700	66.6760	70.4414	17	53	3.7654	0.0000	11300.225	0.0000	0.0000	0.0000
J-F-6	71.4200	66.0200	70.4415	17	55	4.4215	0.9785	12.5660	0.0000	0.0000	0.0000
F-4	71.0600	66.9870	70.4417	17	53	3.4547	0.6183	12.5660	0.0000	0.0000	0.0000
F-6	69.4200	66.4200	70.4488	17	57	4.0288	0.0000	16683.480	0.0000	0.0000	0.0000
BRCKH01.3	72.2000	70.0000	71.5204	18	36	1.5204	0.6796	12.5660	0.0000	0.0000	0.0000
BRCKHO1.2	72.8000	71.5200	71.1450	18	34	0.0000	1.6550	12.5660	0.0000	0.0000	0.0000
BRCKH00.1	69.7000	69.3000	68.8400	17	59	0.0000	0.8600	12.5660	0.0000	0.0000	0.0000
E11504.3	75.2300	74.8700	73.0158	17	57	0.0000	2.2142	12.5660	0.0000	0.0000	0.0000
E11504.5	75.1600	74.4100	71.9940	18	19	0.0000	3.1660	12.5660	0.0000	0.0000	0.0000
E11504.6	72.6200	72.2500	71.9779	18	20	0.0000	0.6421	12.5660	0.0000	0.0000	0.0000
E11504.7	72.6100	71.5800	71.7292	18	26	0.1492	0.8808	12.5660	0.0000	0.0000	0.0000
E11504.8	73.2900	72.9200	71.7033	18	27	0.0000	1.5867	12.5660	0.0000	0.0000	0.0000

Table E10 - CONDUIT SUMMARY STATISTICS
Note: The peak flow may be less than the design flow and the conduit may still surcharge because of the downstream boundary conditions.

* denotes an open conduit that has been overtopped this is a potential source of severe errors

Conduit Name	Design Flow (cfs)	Conduit Design Velocity (ft/s)	Maximum Vertical Depth (in)	Maximum Computed Flow (cfs)	Time of Occurence Hr.	Min.	Maximum Computed Velocity (ft/s)	Time of Occurence Hr.	Min.	Ratio of Max. to Design Flow	Maximum Water Elev at Pipe Ends Upstream (ft)	Dwnstrm (ft)	Ratio d/D US	DS
Link1	194.8455	4.8711	60.0000	218.7062	15	57	5.4406	15	57	1.1225	71.0325	71.0324	2.637	2.658
L_Ll-H-5	190.8043	4.7701	60.0000	218.7285	15	57	5.4409	15	57	1.1464	71.0328	71.0325	2.607	2.637
L_L-H-5	81.5641	4.1540	60.0000	77.7935	15	58	3.9418	15	58	0.9538	71.0364	71.0328	2.327	2.405
L_L-H-5a	489.6172	12.2404	60.0000	141.9952	15	55	3.5380	15	55	0.2900	71.0320	71.0328	2.244	2.607
L_LJ-H-7	61.3764	3.8591	54.0000	61.1352	15	58	3.8224	15	58	0.9961	71.0395	71.0364	2.411	2.475
L_LJ-G-3	162.5515	4.6443	60.0000	176.0713	15	55	5.0144	15	55	1.0832	71.2425	71.0320	2.227	2.244
L_L-H-7	45.1650	3.5941	48.0000	61.1538	15	58	4.8347	15	58	1.3540	71.0426	71.0395	2.538	2.587
L_L-G-3	162.0071	4.6288	60.0000	176.1019	15	55	5.0149	15	55	1.0870	71.3841	71.2677	2.163	2.232
L_L-H-8	31.8156	3.3068	42.0000	39.1304	15	57	4.0361	15	57	1.2299	71.0466	71.0426	2.693	2.758

L_L-G-4	161.3850	4.6110	60.0000	155.2562	15	55	4.4215	15	55	0.9620	71.5347	71.3841	2.127	2.163
L_L-H-9	31.7215	3.2971	42.0000	8.8891	15	59	0.9175	15	59	0.2802	71.0512	71.0466	2.555	2.693
L_L-G-5b	157.4035	4.4972	60.0000	141.6680	15	51	4.0360	15	51	0.9000	71.5818	71.5347	2.116	2.127
L_L-G-5a	31.2714	3.2503	42.0000	-45.2420	21	46	-4.6911	21	46	-1.4468	71.5822	71.5818	2.569	2.595
L_L-MH-18s	73.6932	5.8643	48.0000	122.4653	15	45	9.6966	15	45	1.6618	72.6571	71.5818	2.559	2.416
L_L-G-5	31.7648	3.3016	42.0000	-33.8400	21	46	-3.5004	21	46	-1.0653	71.5825	71.5822	2.526	2.569
L_L-F-3	223.7401	4.9720	60.0000	296.8588	17	9	6.5696	17	9	1.3268	69.9761	69.5093	2.079	2.080
L_L-G-1b	666.0229	6.6602	120.0000	708.1311	17	9	7.0664	17	9	1.0632	69.7290	69.5093	1.562	1.575
L_LJ-F-3	223.2041	4.9601	60.0000	287.1548	17	9	6.3532	17	9	1.2865	70.3698	69.9761	2.078	2.079
L_L-JG-1a	162.7105	4.6489	60.0000	176.8905	16	34	5.0253	16	34	1.0871	69.9505	69.7290	2.408	2.440
L_L-F-2	223.1507	4.9589	60.0000	287.1651	17	9	6.3522	17	9	1.2869	70.6660	70.3698	2.077	2.078
L_L-G-1a	162.1325	4.6324	60.0000	176.9020	16	34	5.0253	16	34	1.0911	70.1751	69.9505	2.377	2.408
L_L-F-2a	219.7910	4.8842	60.0000	280.4137	17	9	6.2024	17	9	1.2758	70.7462	70.6660	2.077	2.077
L_L-G-1	163.4625	4.6704	60.0000	169.1556	17	9	4.8046	17	9	1.0348	70.3018	70.1751	2.358	2.377
L_L-F-1	163.0882	4.6597	60.0000	251.9273	16	8	7.1695	16	8	1.5447	71.3518	70.7462	2.094	2.077
L_L-COH01	64.2282	5.1111	48.0000	118.3937	19	38	9.3487	19	40	1.8433	71.5872	70.7462	2.362	2.237
L_L-G-2	162.5878	4.6454	60.0000	164.3444	17	9	4.6680	17	9	1.0108	70.4459	70.3018	2.337	2.358
L_L-F-1a	174.4855	4.9853	60.0000	236.5658	16	8	6.7311	16	8	1.3558	71.5320	71.3518	2.094	2.094
L_L-G-2a	163.7576	4.6788	60.0000	156.7575	17	9	4.4526	17	9	0.9573	70.6185	70.4459	2.310	2.337
L_LJ-E-5	177.0006	5.0572	60.0000	223.0703	16	12	6.3450	16	12	1.2603	72.1282	71.5320	2.130	2.094
L_LJ-G-3a	160.9876	4.5996	60.0000	150.7103	17	10	4.2810	17	10	0.9362	70.8179	70.6185	2.280	2.310
L_L-E-5	162.7268	4.6493	60.0000	223.0889	16	11	6.3434	16	11	1.3709	72.3995	72.1027	2.104	2.125
L_L-MH-12s	164.4873	4.6996	60.0000	150.7152	17	10	4.2812	17	10	0.9163	70.9522	70.8179	2.272	2.280
L_L-E-4a	162.6083	4.6460	60.0000	194.4293	16	38	5.5259	16	38	1.1957	72.6367	72.3995	2.109	2.104
L_L-E-4	98.0467	4.0853	48.0000	96.7849	21	33	4.5243	21	33	0.9871	72.6900	72.6367	1.923	1.944
L_L-MH-14s	73.6643	3.7517	60.0000	176.7971	16	58	8.9588	16	58	2.4000	72.6928	72.6367	1.861	1.854
L_L-E-3	77.5604	3.8780	48.0000	115.8193	16	26	5.7639	16	26	1.4933	73.2117	72.6900	1.956	1.923
L_L-W43rd	116.5163	5.9341	60.0000	171.8049	17	1	8.7023	17	1	1.4745	73.1713	72.6928	1.887	1.861
L_LJ-E-2	57.7816	3.6114	48.0000	86.5355	16	30	5.3827	16	30	1.4976	74.0784	73.2117	1.969	1.850
L_L-E-2	57.5885	3.5993	48.0000	86.5365	16	30	5.3804	16	30	1.5027	74.6817	74.0784	2.053	1.970
L_L-E-1	45.4165	3.6141	48.0000	49.8654	16	36	3.9417	16	36	1.0980	75.1499	74.6817	2.070	2.053
L_L-E-1a	21.0812	2.9824	36.0000	23.3064	16	15	3.2693	16	15	1.1056	75.4770	75.1499	2.402	2.427
L_L-H-1	522.4488	6.4500	108.0000	526.1119	17	9	6.4764	17	9	1.0070	69.9163	69.7290	1.721	1.735
L_LJ-H-1a	431.0507	5.9868	96.0000	516.7107	17	9	7.1480	17	9	1.1987	70.7338	69.9163	1.987	1.936
L_LJ-H-1	430.8326	5.9838	96.0000	516.7258	17	9	7.1475	17	9	1.1994	70.6071	70.7353	1.921	1.987
L_L-H-2	432.7177	6.0100	96.0000	516.7305	17	9	7.1471	17	9	1.1942	70.7769	70.6071	1.917	1.921
L_L-H-3a	429.1842	5.9609	96.0000	510.0529	17	9	7.0543	17	9	1.1884	70.9762	70.7769	1.913	1.917
L_L-H-3b	431.3136	5.9905	96.0000	513.8523	20	33	7.1075	20	33	1.1914	71.0280	70.9762	1.912	1.913
L_L-H-3	192.6903	4.8173	60.0000	211.6098	21	9	5.2505	21	9	1.0982	71.0291	71.0280	2.863	2.896
L_L-MH-7s	206.1274	5.3561	84.0000	517.0255	16	12	13.3336	16	12	2.5083	72.4654	71.0280	2.336	2.185
L_L-H-4a	192.5836	4.8146	60.0000	205.5521	21	10	5.1003	21	10	1.0673	71.0308	71.0291	2.813	2.866
L_L-J-H-4A	192.5510	4.8138	60.0000	186.1784	20	50	4.6187	20	50	0.9669	71.0315	71.0308	2.787	2.812
Link52	105.9866	4.2395	60.0000	186.2847	20	50	7.3926	20	50	1.7576	71.0324	71.0315	2.766	2.788
L_L-E-11	102.7186	4.2799	48.0000	205.0456	16	15	8.5369	16	15	1.9962	72.7534	72.7548	2.221	2.239
L_L-E-10	95.9046	3.9960	48.0000	188.4661	16	15	7.8419	16	15	1.9651	72.7481	72.7534	2.175	2.221
L_LJ-E-9	98.1925	4.0914	48.0000	177.9758	16	15	7.3979	16	15	1.8125	72.7357	72.7481	2.079	2.175
L_L-E-9	98.7309	4.1138	48.0000	177.9637	16	15	7.3892	16	15	1.8025	72.7230	72.7357	1.976	2.079
L_L-E-8	77.5551	3.8778	48.0000	70.5601	16	15	3.5154	16	15	0.9098	72.7236	72.7230	1.926	1.976
L_L-E-7	45.7256	3.6387	48.0000	49.8825	16	15	3.9512	16	15	1.0909	72.7260	72.7236	1.851	1.926
L_L-E-7a	31.7002	3.2948	42.0000	37.8730	16	15	3.9148	16	15	1.1947	72.7306	72.7260	1.877	1.973
L_L-E-6	20.9689	2.9665	36.0000	25.8635	16	15	3.6341	16	15	1.2334	73.2401	72.7306	2.080	2.024
L_L-E-515	87.9442	5.5296	54.0000	179.6039	16	9	11.5391	16	9	2.0422	70.0460	70.0000	2.989	3.016
L_LJ-F-5	18.3732	3.7430	30.0000	179.6594	16	9	35.9563	16	9	9.7783	70.4382	70.0460	5.514	5.382
L_L-F-5	45.3822	3.6114	48.0000	37.2038	16	15	3.7432	15	36	0.8198	70.4414	70.4382	1.941	1.972
L_LJ-F-6	32.9196	3.4216	42.0000	27.9902	16	15	2.9012	16	15	0.8503	70.4415	70.4382	2.263	2.377
L_L-F-4	21.0914	2.9838	36.0000	9.6914	16	15	2.4813	15	41	0.4595	70.4417	70.4414	2.152	2.256
L_L-F-6	31.8097	3.3062	42.0000	28.0249	16	15	2.9054	16	15	0.8810	70.4488	70.4415	2.151	2.263
E115-01.3	10057.17	3.9195	221.0400	6128.106	19	0	7.0778	23	4	0.6093	71.5204	71.1450	1.083	1.072 *
E115-03.1	8404.522	4.3815	220.9200	7968.041	18	59	8.4171	23	6	0.9481	71.1450	70.7361	1.073	1.057 *
E115-02	2213.822	1.3375	220.0800	7988.350	19	2	8.8483	23	2	3.6084	70.7361	69.5093	1.061	0.996 *
E115-01.1	11089.12	6.6997	220.0800	8769.763	19	3	11.4319	17	8	0.7908	69.5093	68.8400	0.996	0.975
Link71	14803.09	4.6888	196.6800	2216.401	17	30	6.3675	13	35	0.1497	73.0158	72.7548	0.887	0.880
Link72	22225.70	6.6003	188.2800	1916.335	18	12	6.9436	12	16	0.0862	71.7033	71.1450	0.922	0.976
Link73	9829.676	6.4441	170.7600	1991.181	17	52	7.0108	12	19	0.2026	71.7292	71.7033	1.010	1.017 *
Link74	9030.696	5.9203	170.7600	2031.145	17	50	6.9005	13	15	0.2249	71.9779	71.7292	0.981	1.011 *
Link75	2253.036	2.8600	170.7600	-2115.27	17	30	-6.8018	13	17	-0.9389	71.9940	71.9779	0.982	0.982
Link77	12286.47	3.8917	196.6800	2161.534	17	30	6.9578	13	18	0.1759	72.7548	71.9940	0.880	0.853
Link78	64.2392	5.1120	48.0000	125.8839	15	43	10.0970	15	43	1.9596	70.7462	70.4382	2.237	2.308
Link79	162.5647	4.6447	60.0000	143.5105	17	10	4.0768	17	11	0.8828	71.0320	70.9522	2.244	2.272
Link81	57.6914	2.8846	48.0000	102.5065	16	30	5.1041	16	30	1.7768	72.6900	72.7230	1.923	1.976
FREE # 1	Undefnd	Undefnd	Undefn	179.6039	16	9								
FREE # 2	Undefnd	Undefnd	Undefn	8769.670	19	3								

Table E14 - Natural Channel Overbank Flow Information

Conduit Name	Left Velocity	Center Velocity	Right Velocity	Left Flow	Center Flow	Right Flow	Left Area	Center Area	Right Area	Left Area	Center Area	Right Area	Maximum Depth
	<---- Maximum Velocity ----->			<------ Maximum Flow ------->			<------ Maximum Area ------>			<--- Max. Storage Volume --->			
E115-01.3	0.3451	7.1999	0.4878	595.9823	5506.2696	25.8540	1726.7428	764.7721	53.0011	226375.98	194787.45	15031.106	18.4053
E115-03.1	0.4422	9.9753	0.6437	416.9533	7515.4165	35.6715	942.8059	753.4035	55.4178	558329.68	113763.93	10867.430	18.2357
E115-02	0.3853	10.0669	0.5703	310.5281	7629.8674	47.9542	805.9208	757.9159	84.0806	248626.56	232680.17	26922.621	18.3329
E115-01.1	0.3978	11.2386	0.6263	282.4782	8438.0436	49.2411	710.0315	750.8118	78.6241	69370.077	85742.705	10362.654	18.2271
Link71	0.4394	5.0908	0.2569	143.8807	1971.5035	101.0167	327.4233	387.2656	393.2088	66466.921	77453.112	78641.757	14.5245
Link72	0.1019	3.4910	0.1963	53.5203	1742.0186	120.7957	525.2763	499.0064	615.4794	408664.99	388227.00	478843.00	14.5604
Link73	0.3179	4.0297	0.2233	160.3387	1702.9183	127.9244	504.3313	422.5935	572.8416	32151.121	26940.336	36518.654	14.1985
Link74	0.3221	4.3360	0.2158	144.5652	1785.7311	100.8486	448.7676	411.8393	467.4253	195662.69	176267.20	196786.06	13.9852
Link75	0.3947	4.5054	0.2322	71.4282	2023.4198	20.4240	180.9457	449.1110	87.9484	7690.1927	19087.217	3737.8053	13.9813
Link77	0.4265	5.1454	0.2585	128.2283	1949.0251	84.2804	300.6662	378.7901	326.0865	181301.74	227274.05	194673.67	14.3800

Table E14a - Natural Channel Encroachment Information

Conduit Name	Left Bank	Centre Channel	Right Bank	Total	Left Station	Right Station	Left Bank	Centre Channel	Right Bank	Total	Left Station	Right Station	Left	Right	Incr.	Method
	<------- Existing Conveyance Condition ------->						<----- Encroachment Conveyance Condition ----->						<- % Volume -->		<-- Encroachment Data --> Depth	
E115-01.3	37457.7	346071.	1624.9	385154.	4318.6	5058.5	37457.7	346071.	1624.9	385154.	4318.6	5058.5	0.0000	0.0000	0.0000	None
E115-03.1	18726.6	337540.	1602.1	357868.	4228.2	5062.5	18726.6	337540.	1602.1	357868.	4228.2	5062.5	0.0000	0.0000	0.0000	None
E115-02	13844.1	340159.	2137.9	356141.	4060.4	5085.6	13844.1	340159.	2137.9	356141.	4060.4	5085.6	0.0000	0.0000	0.0000	None
E115-01.1	11210.1	334862.	1954.1	348026.	4060.4	5083.9	11210.1	334862.	1954.1	348026.	4060.4	5083.9	0.0000	0.0000	0.0000	None
Link71	8853.6	121315.	6216.0	136385.	4968.4	6118.2	8853.6	121315.	6216.0	136385.	4968.4	6118.2	0.0000	0.0000	0.0000	None
Link72	5355.0	174298.	12086.2	191739.	4576.6	5910.6	5355.0	174298.	12086.2	191739.	4576.6	5910.6	0.0000	0.0000	0.0000	None
Link73	14474.5	153730.	11548.3	179752.	4711.9	5528.2	14474.5	153730.	11548.3	179752.	4711.9	5528.2	0.0000	0.0000	0.0000	None
Link74	11921.9	147265.	8316.7	167504.	4711.9	5528.2	11921.9	147265.	8316.7	167504.	4711.9	5528.2	0.0000	0.0000	0.0000	None

Link75 4899.9 138804. 1401.1 145105. 4858.0 5148.9 4899.9 138804. 1401.1 145105. 4858.0 5148.9 0.0000 0.0000 0.0000 None

Link77 7725.7 117428. 5077.9 130232. 4968.8 6103.7 7725.7 117428. 5077.9 130232. 4968.8 6103.7 0.0000 0.0000 0.0000 None

Table E14b - Floodplain Mapping

Conduit Name	Upstream WS Elev.	Downstream WS Elev.	Channel Length	Center Station	<----- Left Offsets Natural	Left Offsets Encroach	------> Bank	<----- Right Offsets Natural	Right Offsets Encroach	------> Bank	<- Channel Widths-> Total	Encroach.
E115-01.3	71.5204	71.1450	254.7000	5001.8000	683.2135	683.2135	34.1000	56.7001	56.7001	32.9000	739.9136	739.9136
E115-03.1	71.1450	70.7361	151.0000	5001.8000	773.6308	773.6308	34.1000	60.7001	60.7001	32.9000	834.3309	834.3309
E115-02	70.7361	69.5093	307.0000	5000.1000	939.7001	939.7001	34.0000	85.4867	85.4867	33.1000	1025.1868	1025.1868
E115-01.1	69.5093	68.8400	114.2000	5000.1000	939.7001	939.7001	34.0000	83.7906	83.7906	33.1000	1023.4907	1023.4907
Link71	73.0158	72.7548	200.0000	5003.3000	34.8734	34.8734	35.5000	1114.8522	1114.8522	24.0000	1149.7256	1149.7256
Link72	71.7033	71.1450	778.0000	5000.3000	423.7290	423.7290	34.4000	910.3000	910.3000	29.3000	1334.0291	1334.0291
Link73	71.7292	71.7033	63.7500	5000.5000	288.6001	288.6001	28.2000	527.7001	527.7001	22.2000	816.3002	816.3002
Link74	71.9779	71.7292	428.0000	5000.5000	288.6001	288.6001	28.2000	527.7001	527.7001	22.2000	816.3002	816.3002
Link75	71.9779	71.9940	42.5000	5000.5000	142.5001	142.5001	41.6000	148.4001	148.4001	27.6000	290.9002	290.9002
Link77	72.7548	71.9940	600.0000	5003.3000	34.4533	34.4533	35.5000	1100.4045	1100.4045	24.0000	1134.8579	1134.8579

Table E15 - SPREADSHEET INFO LIST

Conduit Flow and Junction Depth Information for use in spreadsheets. The maximum values in this table are the true maximum values because they sample every time step. The values in the review results may only be the maximum of a subset of all the time steps in the run. Note: These flows are only the flows in a single barrel.

Conduit Name	Maximum Flow (cfs)	Total Flow (ft^3)	Maximum Velocity (ft/s)	Maximum Volume (ft^3)	##	Junction Name	Invert Elevation (ft)	Maximum Elevation (ft)
Link1	218.7062	640772.1236	5.4406	4338.8837	##	J-H-4b	57.8500	71.0325
L_LJ-H-5	218.7285	640922.2612	5.4409	6169.2705	##	J-H-5	58.0000	71.0328
L_L-H-5	77.7935	449024.6152	3.9418	8184.9378	##	H-5	59.4000	71.0364
L_L-H-5a	141.9952	191905.3177	3.5380	11303.6763	##	G-3a	59.8100	71.0320
L_LJ-H-7	61.1352	351587.1249	3.8224	4963.5132	##	J-H-7	60.1900	71.0395
L_LJ-G-3	176.0713	3033224.287	5.0144	10584.3489	##	J-G-3	60.1100	71.2425
L_L-H-7	61.1538	351390.9533	4.8347	2665.0236	##	H-7	60.8900	71.0426
L_L-G-3	176.1019	3022516.836	5.0149	16337.1112	##	G-3	60.5700	71.3841
L_L-H-8	39.1304	237171.5421	4.0361	2319.7931	##	H-8	61.6200	71.0466
L_L-G-4	155.2562	2885803.744	4.4215	11806.8996	##	G-4	60.9000	71.5347
L_L-H-9	8.8891	55293.3987	0.9175	4971.5181	##	H-9	62.1100	71.0512
L_L-G-5b	141.6680	2792671.266	4.0360	3760.4704	##	G-5b	61.0000	71.5818
L_L-G-5a	-45.2420	150122.2615	-4.6911	939.6160	##	G-5a	62.5900	71.5822
L_L-MH-18s	122.4653	2641970.286	9.6966	2517.6109	##	MH-18s	62.4200	72.6571
L_L-G-5	-33.8400	129922.3487	-3.5004	1517.7465	##	G-5	62.7400	71.5825
L_L-F-3	296.8588	4978957.641	6.5696	21158.0996	##	BRCKH01.0	51.2400	69.5093
L_L-G-1b	708.1311	16793272.59	7.0664	35281.6661	##	F-3	59.5800	69.9761
L_LJ-F-3	287.1548	4829865.378	6.3532	18093.4195	##	G-1b	54.1100	69.7290
L_L-JG-1a	176.8905	3504464.405	5.0253	13393.6314	##	J-F-3	59.9800	70.3698
L_L-F-2	287.1651	4831064.220	6.3522	13576.4720	##	J-G-1a	57.9100	69.9505
L_L-G-1a	176.9020	3504795.975	5.0253	13487.1826	##	F-2	60.2800	70.6660
L_L-F-2a	280.4137	4727292.454	6.2024	3738.5460	##	G-1a	58.2900	70.1751
L_L-G-1	169.1556	3434192.276	4.8046	7680.6304	##	F-2a	60.3600	70.7462
L_L-F-1	251.9273	4800872.174	7.1695	18210.5156	##	G-1	58.5100	70.3018
L_L-COH01	118.3937	2879822.870	9.3487	2266.6409	##	F-1	60.8800	71.3518
L_L-G-2	164.3444	3354955.635	4.6680	8821.3389	##	COH01	62.1410	71.5872
L_L-F-1a	236.5658	4718390.895	6.7311	6463.6601	##	G-2	58.7600	70.4459
L_L-G-2a	156.7575	3249207.081	4.4526	10781.6055	##	F-1a	61.0600	71.5320
L_LJ-E-5	223.0703	4647175.480	6.3450	14656.3182	##	G-2a	59.0700	70.6185
L_LJ-G-3a	150.7103	3161881.682	4.2810	12593.5572	##	J-E-5	61.4800	72.1027
L_L-E-5	223.0889	4617608.769	6.3434	14073.6852	##	J-G-3a	59.4200	70.8179
L_L-MH-12s	150.7152	3160588.804	4.2812	5858.4786	##	E-5	61.8800	72.3995
L_L-E-4a	194.4293	4449426.954	5.5259	7398.6978	##	MH-12s	59.5900	70.9522
L_L-E-4	96.7849	1857370.312	4.5243	3371.0554	##	E-4a	62.0900	72.6367
L_L-MH-14s	176.7971	2590279.793	8.9588	617.5135	##	E-4	65.0000	72.6900
L_L-E-3	115.8193	901848.1312	5.7639	7754.5437	##	MH-14s	63.3900	72.6928
L_L-W43rd	171.8049	2592035.353	8.7023	3578.9447	##	E-3	65.3860	73.2117
L_LJ-E-2	86.5355	728870.5391	5.3827	6294.3468	##	W43rd	63.7380	73.1713
L_L-E-2	86.5365	730224.4544	5.3804	4382.7035	##	J-E-2	66.2000	74.0784
L_L-E-1	49.8654	418002.7243	3.9417	5271.1886	##	E-2	66.4700	74.6817

L_L-E-1a	23.3064	115650.6779	3.2693	2967.0721	##	E-1	66.8700	75.1499
L_L-H-1	526.1119	13165633.65	6.4764	24090.1396	##	E-1a	68.2700	75.4770
L_LJ-H-1a	516.7107	13024320.35	7.1480	29401.8327	##	BRCKH01.1	51.2700	70.7361
L_LJ-H-1	516.7258	13025514.01	7.1475	28714.0000	##	H-1	54.4300	69.9163
L_L-H-2	516.7305	13024106.43	7.1471	14231.0096	##	J-H-1	54.8400	70.7338
L_L-H-3a	510.0529	12912722.60	7.0543	16635.9370	##	J-H-2	55.2400	70.6071
L_L-H-3b	513.8523	12893250.49	7.1075	4318.5718	##	H-2	55.4400	70.7769
L_L-H-3	211.6098	1013964.045	5.2505	6541.4176	##	H-3a	55.6700	70.9762
L_L-MH-7s	517.0255	11879119.77	13.3336	14725.4019	##	H-3b	55.7300	71.0280
L_L-H-4a	205.5521	941791.0189	5.1003	10831.9990	##	H-3	56.7000	71.0291
L_L-J-H-4A	186.1784	877956.1558	4.6187	5052.6097	##	MH-7s	56.1100	72.4654
Link52	186.2847	876161.0264	7.3926	2740.7644	##	H-4a	56.9680	71.0308
L_L-E-11	205.0456	-229152.879	8.5369	1539.9485	##	J-H-4a	57.0900	71.0315
L_L-E-10	188.4661	-309463.706	7.8419	4535.1961	##	DET-4C	57.2010	71.0324
L_LJ-E-9	177.9758	-359847.272	7.3979	8890.9405	##	E11504.4	58.3300	72.7548
L_L-E-9	177.9637	-359863.451	7.3892	9502.7643	##	E-11	63.8700	72.7534
L_L-E-8	70.5601	336986.8901	3.5154	4019.5151	##	E-10	64.0500	72.7481
L_L-E-7	49.8825	241076.0348	3.9512	3900.1170	##	J-E-9	64.4200	72.7357
L_L-E-7a	37.8730	185380.5011	3.9148	3454.2831	##	E-9	64.8200	72.7230
L_L-E-6	25.8635	129654.2677	3.6341	2549.0953	##	E-8	65.0200	72.7236
L_L-E-515	179.6039	3265069.186	11.5391	1367.1753	##	E-7	65.3200	72.7260
L_LJ-F-5	179.6594	3265063.792	35.9563	161.5725	##	E-7a	66.1600	72.7306
L_L-F-5	37.2038	177972.0747	3.7432	1662.9321	##	E-6	67.0000	73.2401
L_LJ-F-6	27.9902	133725.6688	2.9012	3768.3527	##	E5150100	56.4300	70.8400
L_L-F-4	9.6914	46292.2916	2.4813	2319.4823	##	JE5150100	56.5900	70.0460
L_L-F-6	28.0249	134008.8992	2.9054	4035.9157	##	J-F-5	56.6530	70.4382
E115-01.3	6128.1058	225976438.8	7.0778	436194.5357	##	F-5	62.6760	70.4414
E115-03.1	7968.0412	276712733.2	8.4171	682961.0451	##	J-F-6	62.5200	70.4415
E115-02	7988.3497	276731950.5	8.8483	508229.3486	##	F-4	63.9870	70.4417
E115-01.1	8769.7628	298512977.0	11.4319	165475.4369	##	F-6	62.9200	70.4488
Link71	2216.4009	50790320.80	6.3675	222561.7902	##	BRCKH01.3	51.5800	71.5204
Link72	1916.3346	50635246.39	6.9436	1.27574E+06	##	BRCKHO1.2	51.3900	71.1450
Link73	1991.1814	50609507.52	7.0108	95610.1106	##	BRCKH00.1	50.9600	68.8400
Link74	2031.1449	50605274.21	6.9005	568715.9563	##	E11504.3	58.4800	73.0158
Link75	-2115.2720	-50582091.6	-6.8018	30515.2153	##	E11504.5	58.0100	71.9940
Link77	2161.5338	50586581.87	6.9578	603249.4550	##	E11504.6	58.0200	71.9779
Link78	125.8839	2952670.671	10.0970	3886.1405	##	E11504.7	57.3400	71.7292
Link79	143.5105	3044569.891	4.0768	7761.5911	##	E11504.8	57.2300	71.7033
Link81	102.5065	-774130.818	5.1041	6537.5404	##			
FREE # 1	179.6039	3265066.030	0.0000	0.0000	##			
FREE # 2	8769.6695	298511144.7	0.0000	0.0000	##			

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| Table E15a - SPREADSHEET REACH LIST |
| Peak flow and Total Flow listed by Reach or those |
| conduits or diversions having the same |
| upstream and downstream nodes. |
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Upstream Node	Downstream Node	Maximum Flow (cfs)	Total Flow (ft^3)
J-H-4b	DET-4C	218.7062	640772.124
J-H-5	J-H-4b	218.7285	640922.261
H-5	J-H-5	77.7935	449024.615
G-3a	J-H-5	141.9952	191905.318
J-H-7	H-5	61.1352	351587.125
J-G-3	G-3a	176.0713	3033224.29
H-7	J-H-7	61.1538	351390.953
G-3	J-G-3	176.1019	3022516.84
H-8	H-7	39.1304	237171.542
G-4	G-3	155.2562	2885803.74
H-9	H-8	8.8891	55293.3987
G-5b	G-4	141.6680	2792671.27
G-5a	G-5b	-45.2420	150122.261
MH-18s	G-5b	122.4653	2641970.29
G-5	G-5a	-33.8400	129922.349
F-3	BRCKH01.0	296.8588	4978957.64
G-1b	BRCKH01.0	708.1311	16793272.6

J-F-3	F-3	287.1548	4829865.38
J-G-1a	G-1b	176.8905	3504464.40
F-2	J-F-3	287.1651	4831064.22
G-1a	J-G-1a	176.9020	3504795.97
F-2a	F-2	280.4137	4727292.45
G-1	G-1a	169.1556	3434192.28
F-1	F-2a	251.9273	4800872.17
COH01	F-2a	118.3937	2879822.87
G-2	G-1	164.3444	3354955.64
F-1a	F-1	236.5658	4718390.90
G-2a	G-2	156.7575	3249207.08
J-E-5	F-1a	223.0703	4647175.48
J-G-3a	G-2a	150.7103	3161881.68
E-5	J-E-5	223.0889	4617608.77
MH-12s	J-G-3a	150.7152	3160588.80
E-4a	E-5	194.4293	4449426.95
E-4	E-4a	96.7849	1857370.31
MH-14s	E-4a	176.7971	2590279.79
E-3	E-4	115.8193	901848.131
W43rd	MH-14s	171.8049	2592035.35
J-E-2	E-3	86.5355	728870.539
E-2	J-E-2	86.5365	730224.454
E-1	E-2	49.8654	418002.724
E-1a	E-1	23.3064	115650.678
H-1	G-1b	526.1119	13165633.6
J-H-1	H-1	516.7107	13024320.4
J-H-2	J-H-1	516.7258	13025514.0
H-2	J-H-2	516.7305	13024106.4
H-3a	H-2	510.0529	12912722.6
H-3b	H-3a	513.8523	12893250.5
H-3	H-3b	211.6098	1013964.05
MH-7s	H-3b	517.0255	11879119.8
H-4a	H-3	205.5521	941791.019
J-H-4a	H-4a	186.1784	877956.156
DET-4C	J-H-4a	186.2847	876161.026
E-11	E11504.4	205.0456	-229152.88
E-10	E-11	188.4661	-309463.71
J-E-9	E-10	177.9758	-359847.27
E-9	J-E-9	177.9637	-359863.45
E-8	E-9	70.5601	336986.890
E-7	E-8	49.8825	241076.035
E-7a	E-7	37.8730	185380.501
E-6	E-7a	25.8635	129654.268
JE5150100	E5150100	179.6039	3265069.19
J-F-5	JE5150100	179.6594	3265063.79
F-5	J-F-5	37.2038	177972.075
J-F-6	J-F-5	27.9902	133725.669
F-4	F-5	9.6914	46292.2916
F-6	J-F-6	28.0249	134008.899
BRCKH01.3	BRCKHO1.2	6128.1058	225976439.
BRCKHO1.2	BRCKH01.1	7968.0412	276712733.
BRCKH01.1	BRCKH01.0	7988.3497	276731951.
BRCKH01.0	BRCKH00.1	8769.7628	298512977.
E11504.3	E11504.4	2216.4009	50790320.8
E11504.8	BRCKHO1.2	1916.3346	50635246.4
E11504.7	E11504.8	1991.1814	50609507.5
E11504.6	E11504.7	2031.1449	50605274.2
E11504.6	E11504.5	2115.2720	50582091.6
E11504.4	E11504.5	2161.5338	50586581.9
F-2a	J-F-5	125.8839	2952670.67
G-3a	MH-12s	143.5105	3044569.89
E-4	E-9	102.5065	-774130.82

Table E19 - Junction Inflow & Outflow Listing
Units are either ft^3 or m^3 depending on the units in your model.

Junction Name	Constant Inflow to Node	User Inflow to Node	Interface Inflow to Node	DWF Inlow to Node	Inflow through Outfall	RNF Layer Inflow to Node	Outflow from Node	Evaporation from Node	Inflow from 2D Layer
H-5	0.0000	97596.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
G-3a	0.0000	203679.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
H-7	0.0000	113913.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
G-3	0.0000	138339.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
H-8	0.0000	181935.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
G-4	0.0000	93645.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
H-9	0.0000	55512.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
G-5a	0.0000	19917.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
MH-18s	0.0000	2.6457E+06	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
G-5	0.0000	129096.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
F-3	0.0000	151848.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
G-1b	0.0000	126369.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
F-2	0.0000	104598.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
G-1a	0.0000	66537.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
G-1	0.0000	79416.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
F-1	0.0000	84510.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
COH01	0.0000	2.8762E+06	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
G-2	0.0000	105822.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
F-1a	0.0000	72819.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
G-2a	0.0000	87075.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
E-5	0.0000	170181.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
MH-12s	0.0000	116073.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
E-4	0.0000	181341.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
E-3	0.0000	172485.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
W43rd	0.0000	2.5545E+06	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
E-2	0.0000	312354.5000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
E-1	0.0000	302770.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
E-1a	0.0000	115596.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
H-1	0.0000	142245.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
H-2	0.0000	111258.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
H-3a	0.0000	28989.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
H-3	0.0000	74124.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
MH-7s	0.0000	11.4944E+06	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
H-4a	0.0000	64197.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
DET-4C	0.0000	254592.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
E-11	0.0000	79398.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
E-10	0.0000	50031.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
E-9	0.0000	77418.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
E-8	0.0000	95868.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
E-7	0.0000	55665.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
E-7a	0.0000	55539.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
E-6	0.0000	129906.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
E5150100	0.0000	0.0000	0.0000	0.0000	20.2084	0.0000	3.2651E+06	0.0000	
F-5	0.0000	131697.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
F-4	0.0000	46530.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
F-6	0.0000	133794.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
BRCKH01.3	0.0000	225.9779E+06	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
BRCKH00.1	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	298.5111E+06	0.0000	
E11504.3	0.0000	50.7885E+06	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	

Table E20 - Junction Flooding and Volume Listing. The maximum volume is the total volume in the node including the volume in the flooded storage area. This is the max volume at any time. The volume in the flooded storage area is the total volume above the ground elevation, where the flooded pond storage area starts. The fourth column is instantaneous, the fifth is the sum of the flooded volume over the entire simulation. Units are either ft^3 or m^3 depending on the units.

Junction Name	Surcharged Time (min)	Flooded Time(min)	Out of 1D-System (Flooded Volume)	Maximum Volume	Passed to 2D cell OR Volume Stored in allowed Flood Pond of 1D-System
J-H-4b	642.3667	0.0000	0.0000	165.6517	0.0000
J-H-5	592.1865	199.3818	0.0000	3100.3110	4252.6576

H-5	574.7209	317.7824	0.0000	21856.3384	22954.6584
G-3a	554.0926	275.4258	0.0000	6599.2001	12856.7402
J-H-7	560.2685	324.0509	0.0000	21928.9361	23100.3028
J-G-3	538.0833	130.0757	0.0000	1170.0076	4180.4403
H-7	550.2407	328.2206	0.0000	17931.2818	18881.4065
G-3	514.9697	338.2149	0.0000	32956.6515	40164.2534
H-8	536.7500	337.9339	0.0000	22101.8891	24724.0899
G-4	501.9571	342.8410	0.0000	26141.1710	30421.8380
H-9	511.5000	339.5003	0.0000	18060.3472	21659.9426
G-5b	498.1275	345.3331	0.0000	41223.4101	45010.9470
G-5a	494.8096	347.0139	0.0000	26912.5494	27990.5209
MH-18s	487.7790	382.0654	0.0000	670279.7832	794581.7936
G-5	487.9444	352.2637	0.0000	41234.4163	46663.3184
BRCKH01.0	0.0000	0.0000	0.0000	229.5716	0.0000
F-3	562.4735	158.3477	0.0000	1892.3928	2410.0188
G-1b	585.4028	153.6796	0.0000	678.4338	659.1048
J-F-3	540.5648	154.8350	0.0000	4989.3310	5547.1444
J-G-1a	640.9917	163.8405	0.0000	704.7792	799.1769
F-2	520.7394	224.1621	0.0000	11656.0669	13208.8816
G-1a	623.5333	226.7523	0.0000	6436.2336	7952.7619
F-2a	489.3030	231.4769	0.0000	15111.8952	16038.3835
G-1	613.1278	268.6600	0.0000	5642.6511	7749.1348
F-1	490.0492	270.4872	0.0000	20088.5671	23838.8144
COH01	481.8396	347.1979	0.0000	472516.8031	547760.9439
G-2	601.7222	286.6819	0.0000	8002.5108	11361.7352
F-1a	484.8914	226.8194	0.0000	13316.0576	26518.5534
G-2a	588.2381	298.7945	0.0000	12729.7341	17549.0017
J-E-5	475.0972	85.0376	0.0000	1934.6406	9450.5710
J-G-3a	572.8333	91.5747	0.0000	493.5954	869.5455
E-5	463.3515	197.5486	0.0000	5290.5461	23588.5788
MH-12s	565.2292	67.0819	0.0000	161.9916	200.7571
E-4a	336.9236	191.1222	0.0000	5993.9008	16976.1352
E-4	334.5556	157.2926	0.0000	1599.1288	2379.0549
MH-14s	374.0076	212.2859	0.0000	13869.2704	51870.2139
E-3	296.7051	45.2034	0.0000	2564.8598	2922.7353
W43rd	343.5464	184.6040	0.0000	11041.3283	28340.5606
J-E-2	281.4776	0.0000	0.0000	99.0000	0.0000
E-2	270.5841	21.9188	0.0000	168.6134	81.3711
E-1	246.7188	47.5294	0.0000	5264.2754	6031.3579
E-1a	223.3403	0.0000	0.0000	90.5632	0.0000
BRCKH01.1	221.4615	0.0000	0.0000	244.6116	0.0000
H-1	617.1389	179.2783	0.0000	1198.8127	2526.3202
J-H-1	645.2250	0.0000	0.0000	199.7407	0.0000
J-H-2	628.6556	173.2328	0.0000	2193.3631	2552.6504
H-2	619.5833	288.9002	0.0000	15796.6651	83129.4580
H-3a	608.9472	294.7532	0.0000	16888.5985	111084.3496
H-3b	606.3333	298.5634	0.0000	21679.6134	131057.7302
H-3	695.8160	298.0532	0.0000	17759.2969	76199.4423
MH-7s	636.5559	293.0038	0.0000	785591.3752	950275.0299
H-4a	682.5833	301.6907	0.0000	21738.3420	64930.5334
J-H-4a	676.4167	276.6925	0.0000	9471.9646	22767.5675
DET-4C	646.9667	0.0000	0.0000	2608248.367	0.0000
E11504.4	0.0000	0.0000	0.0000	181.2618	0.0000
E-11	434.5978	191.7279	0.0000	14595.0421	14641.3389
E-10	435.4095	136.0417	0.0000	6430.2207	6617.0686
J-E-9	428.9607	0.0000	0.0000	104.4949	0.0000
E-9	378.3894	112.2340	0.0000	1914.4304	2400.3312
E-8	344.6493	0.0000	0.0000	96.8038	0.0000
E-7	332.2465	0.0000	0.0000	93.0636	0.0000
E-7a	313.0521	0.0000	0.0000	82.5660	0.0000
E-6	297.8429	0.0000	0.0000	78.4134	0.0000
E5150100	549.1204	0.0000	0.0000	181.0761	0.0000
JE5150100	542.0944	0.0000	0.0000	169.0882	0.0000
J-F-5	340.8440	75.2407	0.0000	2042.7317	1896.7106

F-5	328.8750	123.0682	0.0000	3326.0015	3582.6302
J-F-6	402.8190	0.0000	0.0000	99.5412	0.0000
F-4	312.0046	0.0000	0.0000	81.1095	0.0000
F-6	360.7108	145.9213	0.0000	6998.5822	8100.3799
BRCKH01.3	251.9074	0.0000	0.0000	250.5712	0.0000
BRCKHO1.2	0.0000	0.0000	0.0000	248.2414	0.0000
BRCKH00.1	0.0000	0.0000	0.0000	224.6801	0.0000
E11504.3	0.0000	0.0000	0.0000	182.6570	0.0000
E11504.5	0.0000	0.0000	0.0000	175.7223	0.0000
E11504.6	0.0000	0.0000	0.0000	175.3956	0.0000
E11504.7	80.3667	0.0000	0.0000	180.8141	0.0000
E11504.8	0.0000	0.0000	0.0000	181.8719	0.0000

==================================
| Simulation Specific Information |
==================================

Number of Input Conduits..... 79 Number of Simulated Conduits..... 81
Number of Natural Channels..... 10 Number of Junctions............. 78
Number of Storage Junctions..... 30 Number of Weirs................. 0
Number of Orifices............. 0 Number of Pumps................. 0
Number of Free Outfalls..... 2 Number of Tide Gate Outfalls..... 0

==
| Average % Change in Junction or Conduit is defined as: |
| Conduit % Change ==> 100.0 (Q(n+1) - Q(n)) / Qfull |
| Junction % Change ==> 100.0 (Y(n+1) - Y(n)) / Yfull |
==

The Conduit with the largest average change was..E115-01.1 with 0.412 percent
The Junction with the largest average change was.H-3a with 0.298 percent
The Conduit with the largest sinuosity was.....L_L-MH-7s with 79.053

===
| Table E21. Continuity balance at the end of the simulation |
| Junction Inflow, Outflow or Street Flooding |
| Error = Inflow + Initial Volume - Outflow - Final   Volume |
===

Inflow Junction	Inflow Volume,ft^3	Average Inflow, cfs
H-5	97594.4936	0.7530
G-3a	203675.3324	1.5716
H-7	113911.6598	0.8789
G-3	138336.7371	1.0674
H-8	181934.8051	1.4038
G-4	93643.4431	0.7226
H-9	55510.4018	0.4283
G-5a	19916.7539	0.1537
MH-18s	2.64568E+06	20.4142
G-5	129094.2706	0.9961
F-3	151846.1323	1.1717
G-1b	126367.2618	0.9751
F-2	104596.5989	0.8071
G-1a	66536.1033	0.5134
G-1	79415.1634	0.6128
F-1	84509.0097	0.6521
COH01	2.87615E+06	22.1925
G-2	105820.3725	0.8165
F-1a	72818.2044	0.5619
G-2a	87073.8406	0.6719
E-5	170178.9630	1.3131
MH-12s	116072.7350	0.8956
E-4	181337.8691	1.3992
E-3	172481.7705	1.3309
W43rd	2.55452E+06	19.7108
E-2	312352.9171	2.4101
E-1	302769.8940	2.3362
E-1a	115594.1429	0.8919
H-1	142243.0909	1.0976
H-2	111256.7575	0.8585
H-3a	28989.0891	0.2237
H-3	74123.0369	0.5719
MH-7s	11.49440E+06	88.6914
H-4a	64196.0089	0.4953
DET-4C	254584.6697	1.9644
E-11	79396.8881	0.6126
E-10	50030.3223	0.3860

```
            E-9    77417.0286         0.5974

            E-8    95867.0742         0.7397

            E-7    55664.4406         0.4295

           E-7a    55538.4334         0.4285

            E-6   129903.8392         1.0023

       E5150100       20.2084         0.0002

            F-5   131695.2356         1.0162

            F-4    46529.3868         0.3590

            F-6   133792.1584         1.0323

      BRCKH01.3 225.97742E+06      1743.6529

       E11504.3  50.78879E+06       391.8888

       E5150100    -3.265E+06       -25.1936

      BRCKH00.1  -298.511E+06     -2303.3267

       Outflow      Outflow          Average
       Junction  Volume,ft^3    Outflow, cfs
---------------  ------------   ------------
       E5150100   3.26509E+06        25.1936

      BRCKH00.1 298.51114E+06      2303.3267


*====================================================*

| Initial system volume        =         1.3823 Cu Ft |

| Total system inflow volume   = 301.151884E+06 Cu Ft |

| Inflow + Initial volume      = 301.151885E+06 Cu Ft |

*====================================================*

| Total system outflow         = 301.776233E+06 Cu Ft |

| Volume left in system        =     48079.4371 Cu Ft |

| Evaporation                  =         0.0000 Cu Ft |

| Outflow + Final Volume       = 301.824313E+06 Cu Ft |

*====================================================*


*=============================================*
| Total Model Continuity Error                |
| Error in Continuity, Percent =      -0.2233 |
| Error in Continuity, ft^3    =    -672427.346 |
| + Error means a continuity loss, - a gain   |
*=============================================*

##################################################
# Table E22. Numerical Model judgement section   #
##################################################

Your overall error was                                  -0.2233 percent


Worst nodal error was in node MH-7s            with     -1.6457 percent


Of the total inflow this loss was                        0.1277 percent


Your overall continuity error was                Excellent


                                                Excellent Efficiency


Efficiency of the simulation                     1.91


Most Number of Non Convergences at one Node      0.


Total Number Non Convergences at all Nodes       0.


Total Number of Nodes with Non Convergences      0.



===> Hydraulic model simulation ended normally.
===> XP-SWMM Simulation ended normally.


===> Your input file was named  : P:\PROJECTS\290PMC\PhaseII\DRA\Models\SWMM\Segment A\Mitigated\US290_SegA_Sys_BKHSEW43_Mit100-adjust-wat.DAT
===> Your output file was named : P:\PROJECTS\290PMC\PhaseII\DRA\Models\SWMM\Segment A\Mitigated\US290_SegA_Sys_BKHSEW43_Mit100-adjust-wat.out

*============================================================*
|             SWMM Simulation Date and Time Summary          |
*============================================================*
| Starting Date... August     22, 2009  Time...    9:51:15:18  |
|   Ending Date... August     22, 2009  Time...    9:53:28:54  |
|  Elapsed Time...    2.22267 minutes or    133.36000 seconds  |
*============================================================*
```

Project: E100-00-00 Proposed
Start of Run: 01Jun2007, 00:00
End of Run: 04Jun2007, 02:45
Compute Time: 14Dec2010, 14:49:25
Volume Units: AC-FT

Simulation Run: E1000000_10%
Basin Model: 10%_E100-00-00
Meteorologic Model: 10%_24HR
Control Specifications: CONTROL15

Hydrologic Element	Drainage Area (MI2)	Peak Discharge (CFS)	Time of Peak	Volume (AC-FT)
E1000000_0002_D	27.14179	8969.7	01Jun2007, 20:30	8596.1
E1000000_0002_J	110.99649	31071.4	01Jun2007, 21:15	36502.7
E1000000_0002_R	109.80309	30857.1	01Jun2007, 21:15	36113.1
E1000000_0069_J	109.80309	31023.4	01Jun2007, 20:45	36113.3
E1000000_0069_R	85.95399	23077.2	01Jun2007, 22:45	28268.7
E1000000_0070_J	87.78469	23286.9	01Jun2007, 22:30	28873.2
E1000000_0168_J	85.95399	23145.0	01Jun2007, 21:45	28269.1
E1000000_0168_R	83.00629	22548.4	01Jun2007, 22:15	27281.4
E1000000_0282_J	83.00629	22654.6	01Jun2007, 21:00	27281.6
E1000000_0282_R	79.63209	22019.8	01Jun2007, 21:45	26144.1
E1000000_0357_J	79.63209	22152.6	01Jun2007, 20:45	26144.3
E1000000_0357_R	73.91709	20809.8	01Jun2007, 21:30	24199.9
E1000000_0361_J	76.19879	21172.7	01Jun2007, 21:15	25002.3
E1000000_0461_J	73.91709	21344.8	01Jun2007, 19:45	24200.1
E1000000_0461_R	58.32679	15705.9	01Jun2007, 22:15	19002.0
E1000000_0479_J	62.27739	16676.8	01Jun2007, 21:45	20281.3
E1000000_0558_J	58.32679	15901.0	01Jun2007, 21:00	19002.2
E1000000_0558_R	45.69869	12009.9	01Jun2007, 22:00	14610.1
E1000000_0562_J	48.66959	12779.2	01Jun2007, 21:45	15559.4
E1000000_0629_J	45.69869	12097.8	01Jun2007, 21:15	14610.3
E1000000_0638_J	45.69869	12097.8	01Jun2007, 21:15	14610.3
E1000000_0638_R	37.65719	10269.1	02Jun2007, 01:45	12002.3
E1000000_0639_W	45.69869	12097.8	01Jun2007, 21:15	14610.3
E1000000_0728_J	37.65719	10560.1	02Jun2007, 00:00	12002.5
E1000000_0728_R	35.67739	10254.1	02Jun2007, 00:15	11349.8
E1000000_0771_J	35.67739	10355.8	01Jun2007, 23:15	11349.9
E1000000_0771_R	31.31429	9353.4	01Jun2007, 23:30	9938.9
E1000000_0816_J	31.31429	9667.4	01Jun2007, 22:00	9939.0
E1000000_0826_J	31.31429	9667.4	01Jun2007, 22:00	9939.0
E1000000_0826_R	27.14179	8774.8	01Jun2007, 22:15	8595.9
E1000000_0826_W	31.31429	9667.4	01Jun2007, 22:00	9939.0
E1000000_0838_J	28.70389	9019.4	01Jun2007, 22:15	9104.0
E1000000_0866_J	27.14179	8856.8	01Jun2007, 21:30	8596.1
E1000000_0872_W	27.14179	8856.8	01Jun2007, 21:30	8596.1
E1000000_0874_R	27.14179	8856.8	01Jun2007, 21:30	8596.1
E1000000_0877_J	27.14179	8856.8	01Jun2007, 21:30	8596.1
E1000000_0905_R	24.74359	8775.7	01Jun2007, 20:45	8037.8
E1000000_0935_J	24.74359	8887.0	01Jun2007, 20:00	8037.9
E1000000_0935_R	19.34909	7225.4	01Jun2007, 20:45	6321.2
E1000000_0949_J	27.14179	9425.9	01Jun2007, 20:30	8799.3
E1000000_0971_J	21.39229	7681.7	01Jun2007, 20:15	6984.7
E1000000_1007_J	19.34909	7533.7	01Jun2007, 19:15	6321.3
E1000000_1007_R	17.10749	6776.4	01Jun2007, 19:30	5582.3
E1000000_1045_J	17.10749	7025.7	01Jun2007, 18:15	5582.4

Hydrologic Element	Drainage Area (MI2)	Peak Discharge (CFS)	Time of Peak	Volume (AC-FT)
E1000000_1045_R	12.61800	5258.2	01Jun2007, 18:30	4094.0
E1000000_1050_J	14.70749	6178.6	01Jun2007, 18:15	4769.9
E1000000_1056_J	2.08949	1101.3	01Jun2007, 17:00	675.9
E1000000_1104_R	9.99190	3834.5	01Jun2007, 19:15	3218.7
E1000000_1105_J	12.61800	5300.9	01Jun2007, 17:45	4094.0
E1000000_1166_R	7.82590	2936.0	01Jun2007, 19:15	2512.9
E1000000_1167_J	9.99190	3859.6	01Jun2007, 18:45	3218.7
E1000000_1203_J	7.82590	3032.8	01Jun2007, 18:15	2512.9
E1000000_1210_J	4.75820	1910.2	01Jun2007, 18:30	1534.2
E1000000_1210_R	3.00760	998.5	01Jun2007, 19:15	980.6
e100a	3.00760	1023.5	01Jun2007, 18:00	980.6
e100b	1.75060	1263.6	01Jun2007, 17:15	553.6
e100c	2.16600	1145.4	01Jun2007, 17:00	705.8
e100d	2.62610	2146.8	01Jun2007, 17:00	875.4
e100e1	0.87199	653.3	01Jun2007, 16:45	286.6
e100e2	1.21750	452.7	01Jun2007, 17:15	389.3
e100f	2.04320	2029.2	01Jun2007, 16:45	663.6
e100g	2.61040	1196.9	01Jun2007, 17:15	835.0
e100h	1.97980	1156.5	01Jun2007, 16:45	652.7
e100i	2.97090	1245.2	01Jun2007, 17:15	949.4
e100j	3.95060	2125.7	01Jun2007, 17:15	1279.4
e100k	3.43330	1382.1	01Jun2007, 17:00	1142.0
e100l	2.28170	2479.5	01Jun2007, 16:30	802.4
e100m	3.37420	3165.5	01Jun2007, 16:45	1137.5
e100n	2.94770	2200.9	01Jun2007, 17:00	987.7
e100o	1.83070	1805.4	01Jun2007, 16:45	604.4
e100p	1.19340	1141.5	01Jun2007, 16:30	389.6
E1010000_0003_J	22.01840	8615.8	01Jun2007, 20:00	7240.1
E1010000_0090_J	19.20590	7940.3	01Jun2007, 19:00	6314.9
E1010000_0090_R	16.56010	6844.3	01Jun2007, 19:15	5443.3
E1010000_0160_J	16.56010	7026.3	01Jun2007, 18:30	5443.3
E1010000_0160_R	14.73170	6313.6	01Jun2007, 18:45	4850.1
E1010000_0207_J	14.73170	6413.5	01Jun2007, 18:00	4850.1
E1010000_0207_R	12.14570	5100.7	01Jun2007, 18:15	3986.0
E1010000_0242_J	12.14570	5150.3	01Jun2007, 17:45	3986.0
E1010000_0242_R	10.08650	4051.7	01Jun2007, 18:00	3300.6
E1010000_0263_J	10.08650	4138.1	01Jun2007, 17:15	3300.6
E1010000_0274_R	5.77160	2668.6	01Jun2007, 17:30	1873.8
E1010000_0306_R	19.20590	7755.7	01Jun2007, 20:00	6314.9
E1010000_0307_R	3.45160	1255.6	01Jun2007, 17:45	1119.2
E1010000_0310_J	5.77160	2680.1	01Jun2007, 17:15	1873.8
e101a	3.45160	1258.0	01Jun2007, 17:30	1119.2
e101b	2.32000	1536.5	01Jun2007, 17:00	754.6
e101c	4.31490	1469.5	01Jun2007, 17:15	1426.8
e101d	2.05920	1232.6	01Jun2007, 16:45	685.3
e101e	2.58600	1518.6	01Jun2007, 17:00	864.1
e101f	1.82840	810.5	01Jun2007, 17:00	593.2
e101g	2.64580	1514.2	01Jun2007, 16:45	871.7
e101h	2.81250	1010.5	01Jun2007, 17:30	925.1
E1150000_0008_J	11.63970	5913.4	01Jun2007, 18:15	3918.7

Hydrologic Element	Drainage Area (MI2)	Peak Discharge (CFS)	Time of Peak	Volume (AC-FT)
E1150000_0008_R	10.78970	5446.8	01Jun2007, 18:15	3628.4
E1150000_0074_J	10.78970	5530.0	01Jun2007, 18:00	3628.4
E1150000_0082_J	9.63970	4838.4	01Jun2007, 18:00	3232.4
E1150000_0082_R	7.82970	3772.4	01Jun2007, 18:15	2615.7
E1150000_0121_J	7.82970	3804.4	01Jun2007, 17:00	2615.7
E1150000_0122_J	7.82970	3839.8	01Jun2007, 17:00	2617.2
E1150000_0122_R	5.83970	2809.4	01Jun2007, 19:00	1930.4
E1150000_0122_SW	7.82970	3804.4	01Jun2007, 17:00	2611.1
E1150400_0002_SW	1.81000	1068.5	01Jun2007, 18:00	551.1
e115a	5.83970	3326.6	01Jun2007, 17:15	1930.4
e115b1	1.99000	1658.4	01Jun2007, 16:30	686.7
e115b2	1.15000	1005.0	01Jun2007, 16:30	396.0
e115b3	1.81000	1305.3	01Jun2007, 16:45	618.9
e115b4	0.85000	653.5	01Jun2007, 16:45	290.3
E1170000_0001_J	9.65720	3824.6	01Jun2007, 18:45	3442.7
E1170000_0001_R	7.89790	2980.1	01Jun2007, 19:15	2854.1
E1170000_0096_J	7.89790	2990.4	01Jun2007, 18:45	2854.1
E1170000_0096_R	5.23000	1938.4	01Jun2007, 20:15	1955.7
E1170000_0193_J	5.23000	1950.7	01Jun2007, 19:30	1955.7
E1170000_0193_R	3.91000	1465.5	01Jun2007, 19:45	1512.9
E1170000_0241_J	3.91000	1529.9	01Jun2007, 18:30	1512.9
E1170000_0241_SW	3.91000	1529.9	01Jun2007, 18:30	1512.9
E1170000_0254_J	3.91000	1529.9	01Jun2007, 18:30	1512.9
E1170000_0255_J	3.91000	1529.9	01Jun2007, 18:30	1309.7
E1170000_0255_R	2.26000	865.0	01Jun2007, 18:45	753.8
E1170000_0324_J	2.26000	913.7	01Jun2007, 17:00	753.8
E1170000_0325_D	2.26000	913.7	01Jun2007, 17:00	744.1
E1170000_0325_J	2.26000	944.8	01Jun2007, 17:00	753.9
E1170000_0326_D	2.26000	944.8	01Jun2007, 17:00	743.8
E1170000_0326_J	2.26000	979.8	01Jun2007, 17:00	753.9
e117a1	2.26000	979.8	01Jun2007, 17:00	753.9
e117a2	1.65000	748.6	01Jun2007, 17:00	555.8
e117a3	1.32000	645.1	01Jun2007, 17:00	442.8
e117b	2.66790	1403.5	01Jun2007, 17:15	898.5
e117c	1.75930	1285.7	01Jun2007, 17:00	588.6
E1210000_0004_J	4.29430	1633.0	01Jun2007, 20:45	1402.9
E1210000_0012_J	8.04150	3058.7	01Jun2007, 19:00	2608.0
e121a	4.29430	1743.1	01Jun2007, 17:30	1402.9
e121b	3.74720	1741.6	01Jun2007, 17:15	1205.1
E1220000_0000_J	4.36310	2063.8	01Jun2007, 18:45	1411.0
E1220000_0000_R	2.45240	1212.0	01Jun2007, 19:00	796.2
e122a	2.45240	1212.0	01Jun2007, 17:30	796.2
e122b	1.91070	1078.2	01Jun2007, 17:15	614.9
e124a	1.56210	1338.8	01Jun2007, 17:00	508.1
e125a	2.39820	783.7	01Jun2007, 17:45	761.5
e127a	2.24160	860.1	01Jun2007, 17:15	739.0
e132a	3.06770	1163.2	01Jun2007, 17:30	978.7
E1350000_0007_J	2.40000	847.1	01Jun2007, 18:15	812.5
E1350000_0007_R	1.21000	353.8	01Jun2007, 19:00	402.3
E1350000_0097_J	1.21000	371.5	01Jun2007, 17:00	402.6

Hydrologic Element	Drainage Area (MI2)	Peak Discharge (CFS)	Time of Peak	Volume (AC-FT)
E1350000_0098_J	1.21000	527.7	01Jun2007, 17:00	406.2
E1350000_0098_SW	1.21000	371.5	01Jun2007, 17:00	357.4
E1350000_0100_J	1.21000	640.6	01Jun2007, 17:00	406.3
E1350000_0100_SW	1.21000	527.7	01Jun2007, 17:00	387.3
e135a1	1.21000	640.6	01Jun2007, 17:00	406.3
e135a2	1.19000	535.4	01Jun2007, 17:30	410.2
E1410000_0003_J	3.35130	1244.4	01Jun2007, 19:30	1053.2
E1410000_0003_R	1.97550	781.8	01Jun2007, 19:45	622.8
e141a	1.97550	835.9	01Jun2007, 18:00	622.8
e141b	1.37580	542.6	01Jun2007, 17:30	430.4
E2170000_9901_R	0.00000	456.2	02Jun2007, 01:15	203.2
e500-02-00	0.00000	0.0	01Jun2007, 00:00	0.0
e500-03-00	0.00000	0.0	01Jun2007, 00:00	0.0
e500-06-00	0.00000	0.0	01Jun2007, 00:00	0.0
E515_01_00	0.00000	81.7	01Jun2007, 23:30	65.7
E515_02_00	0.00000	4.5	02Jun2007, 00:30	4.6
E517_01_00	0.00000	21.9	02Jun2007, 00:45	10.1
E517_02_00	0.00000	22.5	01Jun2007, 22:30	9.7
E517_03_00	0.00000	0.0	01Jun2007, 00:00	0.0
E535_02_00	0.00000	18.4	02Jun2007, 03:15	18.9
E535_03_00	0.00000	16.3	02Jun2007, 03:00	45.2

Project: E100-00-00 Revised Existing
Start of Run: 01Jun2007, 00:00
End of Run: 04Jun2007, 02:45
Compute Time: 09Dec2010, 16:47:35
Volume Units: AC-FT

Simulation Run: E1000000_10%
Basin Model: 10%_E100-00-00
Meteorologic Model: 10%_24HR
Control Specifications: CONTROL15

Hydrologic Element	Drainage Area (MI2)	Peak Discharge (CFS)	Time of Peak	Volume (AC-FT)
E1000000_0002_D	27.14178	8981.4	01Jun2007, 20:45	8561.1
E1000000_0002_J	110.99648	31051.0	01Jun2007, 21:15	36437.9
E1000000_0002_R	109.80308	30836.7	01Jun2007, 21:15	36048.2
E1000000_0069_J	109.80308	31004.0	01Jun2007, 20:45	36048.2
E1000000_0069_R	85.95398	23129.9	01Jun2007, 22:45	28203.7
E1000000_0070_J	87.78468	23333.3	01Jun2007, 22:30	28808.1
E1000000_0168_J	85.95398	23198.7	01Jun2007, 21:45	28203.7
E1000000_0168_R	83.00628	22612.3	01Jun2007, 22:15	27216.1
E1000000_0282_J	83.00628	22718.3	01Jun2007, 21:00	27216.1
E1000000_0282_R	79.63208	22098.8	01Jun2007, 21:45	26078.6
E1000000_0357_J	79.63208	22240.8	01Jun2007, 20:45	26078.6
E1000000_0357_R	73.91708	20911.4	01Jun2007, 21:30	24142.4
E1000000_0361_J	76.19878	21265.7	01Jun2007, 21:15	24936.7
E1000000_0461_J	73.91708	21394.7	01Jun2007, 19:45	24142.4
E1000000_0461_R	58.32678	15749.6	01Jun2007, 22:15	18954.0
E1000000_0479_J	62.27738	16723.7	01Jun2007, 21:45	20233.3
E1000000_0558_J	58.32678	15933.4	01Jun2007, 21:00	18954.0
E1000000_0558_R	45.69868	12002.1	01Jun2007, 22:00	14575.9
E1000000_0562_J	48.66958	12769.8	01Jun2007, 21:45	15525.2
E1000000_0629_J	45.69868	12078.5	01Jun2007, 21:15	14575.9
E1000000_0638_J	45.69868	12078.5	01Jun2007, 21:15	14575.9
E1000000_0638_R	37.65718	10280.0	02Jun2007, 01:45	11967.9
E1000000_0639_W	45.69868	12078.5	01Jun2007, 21:15	14575.9
E1000000_0728_J	37.65718	10558.1	02Jun2007, 00:00	11967.9
E1000000_0728_R	35.67738	10254.3	02Jun2007, 00:15	11315.2
E1000000_0771_J	35.67738	10353.0	01Jun2007, 23:15	11315.2
E1000000_0771_R	31.31428	9358.7	01Jun2007, 23:45	9904.2
E1000000_0816_J	31.31428	9677.0	01Jun2007, 22:00	9904.2
E1000000_0826_J	31.31428	9677.0	01Jun2007, 22:00	9904.2
E1000000_0826_R	27.14178	8787.2	01Jun2007, 22:15	8561.1
E1000000_0826_W	31.31428	9677.0	01Jun2007, 22:00	9904.2
E1000000_0838_J	28.70388	9031.9	01Jun2007, 22:15	9069.2
E1000000_0866_J	27.14178	8870.5	01Jun2007, 21:30	8561.1
E1000000_0872_W	27.14178	8870.5	01Jun2007, 21:30	8561.1
E1000000_0874_R	27.14178	8870.5	01Jun2007, 21:30	8561.1
E1000000_0877_J	27.14178	8870.5	01Jun2007, 21:30	8561.1
E1000000_0905_R	24.74358	8789.5	01Jun2007, 20:45	8004.1
E1000000_0935_J	24.74358	8902.2	01Jun2007, 20:00	8004.1
E1000000_0935_R	19.34908	7258.7	01Jun2007, 20:45	6298.2
E1000000_0949_J	27.14178	9439.8	01Jun2007, 20:45	8765.5
E1000000_0971_J	21.39228	7696.1	01Jun2007, 20:15	6950.9
E1000000_1007_J	19.34908	7586.5	01Jun2007, 19:15	6298.2
E1000000_1007_R	17.10749	6824.0	01Jun2007, 19:15	5556.0
E1000000_1045_J	17.10749	7047.7	01Jun2007, 18:15	5556.0

Hydrologic Element	Drainage Area (MI2)	Peak Discharge (CFS)	Time of Peak	Volume (AC-FT)
E1000000_1045_R	12.61800	5286.2	01Jun2007, 18:30	4074.8
E1000000_1050_J	14.70749	6204.3	01Jun2007, 18:15	4750.7
E1000000_1056_J	2.08949	1101.3	01Jun2007, 17:00	675.9
E1000000_1104_R	9.99190	3858.6	01Jun2007, 19:15	3199.4
E1000000_1105_J	12.61800	5329.1	01Jun2007, 17:45	4074.8
E1000000_1166_R	7.82590	2952.3	01Jun2007, 19:15	2498.7
E1000000_1167_J	9.99190	3883.5	01Jun2007, 18:45	3199.4
E1000000_1203_J	7.82590	3054.9	01Jun2007, 18:15	2498.7
E1000000_1210_J	4.75820	1929.5	01Jun2007, 18:15	1519.9
E1000000_1210_R	3.00760	1008.2	01Jun2007, 19:00	972.1
e100a	3.00760	1034.4	01Jun2007, 18:00	972.1
e100b	1.75060	1290.4	01Jun2007, 17:15	547.8
e100c	2.16600	1162.8	01Jun2007, 17:00	700.8
e100d	2.62610	2146.8	01Jun2007, 17:00	875.4
e100e1	0.87199	653.3	01Jun2007, 16:45	286.6
e100e2	1.21750	452.7	01Jun2007, 17:15	389.3
e100f	2.04320	2066.1	01Jun2007, 16:45	652.7
e100g	2.61040	1196.9	01Jun2007, 17:15	835.0
e100h	1.97980	1156.5	01Jun2007, 16:45	652.7
e100i	2.97090	1245.2	01Jun2007, 17:15	949.4
e100j	3.95060	2125.7	01Jun2007, 17:15	1279.4
e100k	3.43330	1382.1	01Jun2007, 17:00	1142.0
e100l	2.28170	2510.1	01Jun2007, 16:30	794.3
e100m	3.37420	3165.5	01Jun2007, 16:45	1137.5
e100n	2.94770	2200.9	01Jun2007, 17:00	987.7
e100o	1.83070	1805.4	01Jun2007, 16:45	604.4
e100p	1.19340	1141.5	01Jun2007, 16:30	389.6
E1010000_0003_J	22.01840	8615.8	01Jun2007, 20:00	7240.1
E1010000_0090_J	19.20590	7940.3	01Jun2007, 19:00	6314.9
E1010000_0090_R	16.56010	6844.3	01Jun2007, 19:15	5443.3
E1010000_0160_J	16.56010	7026.3	01Jun2007, 18:30	5443.3
E1010000_0160_R	14.73170	6313.6	01Jun2007, 18:45	4850.1
E1010000_0207_J	14.73170	6413.5	01Jun2007, 18:00	4850.1
E1010000_0207_R	12.14570	5100.7	01Jun2007, 18:15	3986.0
E1010000_0242_J	12.14570	5150.3	01Jun2007, 17:45	3986.0
E1010000_0242_R	10.08650	4051.7	01Jun2007, 18:00	3300.6
E1010000_0263_J	10.08650	4138.1	01Jun2007, 17:15	3300.6
E1010000_0274_R	5.77160	2668.6	01Jun2007, 17:30	1873.8
E1010000_0306_R	19.20590	7755.7	01Jun2007, 20:00	6314.9
E1010000_0307_R	3.45160	1255.6	01Jun2007, 17:45	1119.2
E1010000_0310_J	5.77160	2680.1	01Jun2007, 17:15	1873.8
e101a	3.45160	1258.0	01Jun2007, 17:30	1119.2
e101b	2.32000	1536.5	01Jun2007, 17:00	754.6
e101c	4.31490	1469.5	01Jun2007, 17:15	1426.8
e101d	2.05920	1232.6	01Jun2007, 16:45	685.3
e101e	2.58600	1518.6	01Jun2007, 17:00	864.1
e101f	1.82840	810.5	01Jun2007, 17:00	593.2
e101g	2.64580	1514.2	01Jun2007, 16:45	871.7
e101h	2.81250	1010.5	01Jun2007, 17:30	925.1
E1150000_0008_J	11.63970	6035.2	01Jun2007, 18:00	3909.0

Hydrologic Element	Drainage Area (MI2)	Peak Discharge (CFS)	Time of Peak	Volume (AC-FT)
E1150000_0008_R	10.78970	5536.5	01Jun2007, 18:00	3618.8
E1150000_0074_J	10.78970	5667.4	01Jun2007, 17:30	3618.8
E1150000_0082_J	9.86970	5012.7	01Jun2007, 17:30	3304.6
E1150000_0082_R	7.82970	3783.0	01Jun2007, 18:15	2610.0
E1150000_0122_J	7.82970	3861.3	01Jun2007, 17:00	2610.0
E1150000_0122_R	5.83970	2804.7	01Jun2007, 19:15	1930.4
E1150400_0002_D	2.04000	1327.9	01Jun2007, 17:30	622.9
e115a	5.83970	3326.6	01Jun2007, 17:15	1930.4
e115b1	1.99000	1649.9	01Jun2007, 16:30	679.6
e115b2	0.92000	826.3	01Jun2007, 16:30	314.2
e115b3	2.04000	1471.0	01Jun2007, 16:45	696.6
e115b4	0.85000	653.5	01Jun2007, 16:45	290.3
E1170000_0001_J	9.65720	3870.1	01Jun2007, 18:45	3428.8
E1170000_0001_R	7.89790	3023.2	01Jun2007, 19:15	2840.2
E1170000_0096_J	7.89790	3035.9	01Jun2007, 18:45	2840.2
E1170000_0096_R	5.23000	1976.7	01Jun2007, 20:15	1942.5
E1170000_0193_J	5.23000	1987.7	01Jun2007, 19:30	1942.5
E1170000_0193_R	3.91000	1511.5	01Jun2007, 20:00	1504.0
E1170000_0254_J	3.91000	1585.7	01Jun2007, 18:30	1504.0
E1170000_0255_J	3.91000	1585.7	01Jun2007, 18:30	1299.5
E1170000_0255_R	2.26000	917.0	01Jun2007, 18:45	750.9
E1170000_0326_J	2.26000	977.0	01Jun2007, 17:00	750.9
e117a1	2.26000	977.0	01Jun2007, 17:00	750.9
e117a2	1.65000	761.4	01Jun2007, 17:00	548.6
e117a3	1.32000	647.4	01Jun2007, 17:00	438.5
e117b	2.66790	1403.2	01Jun2007, 17:15	897.7
e117c	1.75930	1285.7	01Jun2007, 17:00	588.6
E1210000_0004_J	4.29430	1633.0	01Jun2007, 20:45	1402.9
E1210000_0012_J	8.04150	3058.7	01Jun2007, 19:00	2608.0
e121a	4.29430	1743.1	01Jun2007, 17:30	1402.9
e121b	3.74720	1741.6	01Jun2007, 17:15	1205.1
E1220000_0000_J	4.36310	2063.8	01Jun2007, 18:45	1411.0
E1220000_0000_R	2.45240	1212.0	01Jun2007, 19:00	796.2
e122a	2.45240	1212.0	01Jun2007, 17:30	796.2
e122b	1.91070	1078.2	01Jun2007, 17:15	614.9
e124a	1.56210	1338.8	01Jun2007, 17:00	508.1
e125a	2.39820	783.7	01Jun2007, 17:45	761.5
e127a	2.24159	861.6	01Jun2007, 17:15	742.2
e132a	3.06770	1163.2	01Jun2007, 17:30	978.7
E1350000_0007_J	2.40000	847.9	01Jun2007, 18:30	805.4
E1350000_0007_R	1.28000	432.7	01Jun2007, 20:45	429.3
E1350000_0097_J	1.28000	438.0	01Jun2007, 20:00	429.3
E1350000_0100_J	1.28000	655.3	01Jun2007, 17:15	429.8
e135a1	1.28000	655.3	01Jun2007, 17:15	429.8
e135a2	1.12000	483.1	01Jun2007, 17:30	376.1
E1410000_0003_J	3.35130	1244.4	01Jun2007, 19:30	1053.2
E1410000_0003_R	1.97550	781.8	01Jun2007, 19:45	622.8
e141a	1.97550	835.9	01Jun2007, 18:00	622.8
e141b	1.37580	542.6	01Jun2007, 17:30	430.4
E2170000_9901_R	0.00000	458.2	02Jun2007, 01:15	204.4

Hydrologic Element	Drainage Area (MI2)	Peak Discharge (CFS)	Time of Peak	Volume (AC-FT)
e500-02-00	0.00000	0.0	01Jun2007, 00:00	0.0
e500-03-00	0.00000	0.0	01Jun2007, 00:00	0.0
e500-06-00	0.00000	0.0	01Jun2007, 00:00	0.0
E515_01_00	0.00000	84.7	02Jun2007, 01:00	71.6
E535_02_00	0.00000	25.7	02Jun2007, 02:30	43.5
E5350000_0097_SW	1.28000	430.8	01Jun2007, 19:30	385.8

Project: E100-00-00 Proposed
Start of Run: 01Jun2007, 00:00
End of Run: 04Jun2007, 02:45
Compute Time: 14Dec2010, 13:58:50
Volume Units: AC-FT

Simulation Run: E1000000_1%
Basin Model: 1%_E100-00-00
Meteorologic Model: 1%_24HR
Control Specifications: CONTROL15

Hydrologic Element	Drainage Area (MI2)	Peak Discharge (CFS)	Time of Peak	Volume (AC-FT)
E1000000_0002_D	27.14179	12715.2	01Jun2007, 21:45	15879.8
E1000000_0002_J	110.99649	44696.9	01Jun2007, 22:30	69590.4
E1000000_0002_R	109.80309	44434.1	01Jun2007, 23:00	68845.0
E1000000_0069_J	109.80309	44448.8	01Jun2007, 22:45	68845.4
E1000000_0069_R	85.95399	33128.8	02Jun2007, 01:00	53888.2
E1000000_0070_J	87.78469	33305.4	02Jun2007, 00:45	55038.7
E1000000_0168_J	85.95399	33195.4	02Jun2007, 00:15	53888.9
E1000000_0168_R	83.00629	32583.8	02Jun2007, 00:45	52021.0
E1000000_0282_J	83.00629	32822.6	01Jun2007, 23:15	52021.5
E1000000_0282_R	79.63209	32132.3	01Jun2007, 23:30	49876.0
E1000000_0357_J	79.63209	33040.4	01Jun2007, 21:45	49876.4
E1000000_0357_R	73.91709	30859.8	01Jun2007, 22:15	46223.5
E1000000_0361_J	76.19879	31413.9	01Jun2007, 22:00	47709.7
E1000000_0461_J	73.91709	31390.6	01Jun2007, 20:30	46223.9
E1000000_0461_R	58.32679	23696.9	02Jun2007, 02:30	36370.3
E1000000_0479_J	62.27739	24477.7	02Jun2007, 01:45	38826.6
E1000000_0558_J	58.32679	23906.5	02Jun2007, 00:45	36370.8
E1000000_0558_R	45.69869	19196.5	02Jun2007, 02:00	27420.6
E1000000_0562_J	48.66959	19993.4	02Jun2007, 01:30	29254.3
E1000000_0629_J	45.69869	19369.4	02Jun2007, 00:30	27421.4
E1000000_0638_J	45.69869	19369.4	02Jun2007, 00:30	27421.4
E1000000_0638_R	37.65719	16076.9	02Jun2007, 02:15	22417.3
E1000000_0639_W	45.69869	19369.4	02Jun2007, 00:30	27421.4
E1000000_0728_J	37.65719	16465.1	01Jun2007, 23:45	22417.9
E1000000_0728_R	35.67739	15869.7	02Jun2007, 00:15	21174.7
E1000000_0771_J	35.67739	16056.7	01Jun2007, 22:30	21175.1
E1000000_0771_R	31.31429	14084.8	01Jun2007, 23:45	18464.3
E1000000_0816_J	31.31429	14356.2	01Jun2007, 21:30	18464.6
E1000000_0826_J	31.31429	14356.2	01Jun2007, 21:30	18464.6
E1000000_0826_R	27.14179	12681.4	01Jun2007, 23:15	15879.0
E1000000_0826_W	31.31429	14356.2	01Jun2007, 21:30	18464.6
E1000000_0838_J	28.70389	13091.3	01Jun2007, 22:15	16852.6
E1000000_0866_J	27.14179	12700.2	01Jun2007, 22:30	15879.5
E1000000_0872_W	27.14179	12700.2	01Jun2007, 22:30	15879.5
E1000000_0874_R	27.14179	12700.2	01Jun2007, 22:30	15879.5
E1000000_0877_J	27.14179	12700.2	01Jun2007, 22:30	15879.5
E1000000_0905_R	24.74359	12918.5	01Jun2007, 22:45	15397.3
E1000000_0935_J	24.74359	12943.8	01Jun2007, 22:00	15397.6
E1000000_0935_R	19.34909	10915.3	01Jun2007, 23:30	12075.6
E1000000_0949_J	27.14179	13978.6	01Jun2007, 21:45	16872.3
E1000000_0971_J	21.39229	11302.8	01Jun2007, 23:00	13348.0
E1000000_1007_J	19.34909	11861.3	01Jun2007, 20:15	12076.2
E1000000_1007_R	17.10749	10619.4	01Jun2007, 20:30	10668.6
E1000000_1045_J	17.10749	10896.7	01Jun2007, 18:45	10668.9

Hydrologic Element	Drainage Area (MI2)	Peak Discharge (CFS)	Time of Peak	Volume (AC-FT)
E1000000_1045_R	12.61800	7980.0	01Jun2007, 19:15	7853.7
E1000000_1050_J	14.70749	9474.1	01Jun2007, 18:45	9152.1
E1000000_1056_J	2.08949	1851.8	01Jun2007, 17:00	1298.3
E1000000_1104_R	9.99190	6117.3	01Jun2007, 20:45	6194.5
E1000000_1105_J	12.61800	8041.1	01Jun2007, 18:00	7853.7
E1000000_1166_R	7.82590	4802.6	01Jun2007, 20:30	4843.1
E1000000_1167_J	9.99190	6185.8	01Jun2007, 19:45	6194.5
E1000000_1203_J	7.82590	5334.6	01Jun2007, 18:00	4843.1
E1000000_1210_J	4.75820	3316.3	01Jun2007, 18:15	2951.3
E1000000_1210_R	3.00760	1767.9	01Jun2007, 19:45	1877.1
e100a	3.00760	1806.6	01Jun2007, 18:15	1877.1
e100b	1.75060	2098.3	01Jun2007, 17:15	1074.3
e100c	2.16600	1941.6	01Jun2007, 17:15	1351.3
e100d	2.62610	3500.3	01Jun2007, 17:00	1659.3
e100e1	0.87199	1076.0	01Jun2007, 17:00	546.6
e100e2	1.21750	793.3	01Jun2007, 17:30	751.7
e100f	2.04320	3248.5	01Jun2007, 16:45	1272.4
e100g	2.61040	2058.9	01Jun2007, 17:15	1612.0
e100h	1.97980	1939.3	01Jun2007, 17:00	1243.2
e100i	2.97090	2162.7	01Jun2007, 17:30	1833.7
e100j	3.95060	3603.2	01Jun2007, 17:15	2456.3
e100k	3.43330	2392.0	01Jun2007, 17:15	2166.7
e100l	2.28170	3906.5	01Jun2007, 16:30	1486.1
e100m	3.37420	5078.7	01Jun2007, 16:45	2145.5
e100n	2.94770	3619.9	01Jun2007, 17:00	1867.9
e100o	1.83070	2892.4	01Jun2007, 16:45	1150.6
e100p	1.19340	1823.9	01Jun2007, 16:30	745.4
E1010000_0003_J	22.01840	12966.8	01Jun2007, 20:00	13806.7
E1010000_0090_J	19.20590	11487.4	01Jun2007, 19:30	12042.7
E1010000_0090_R	16.56010	9791.4	01Jun2007, 20:30	10381.9
E1010000_0160_J	16.56010	9827.7	01Jun2007, 20:00	10381.9
E1010000_0160_R	14.73170	8770.9	01Jun2007, 20:45	9243.9
E1010000_0207_J	14.73170	8871.3	01Jun2007, 19:15	9243.9
E1010000_0207_R	12.14570	7207.3	01Jun2007, 20:45	7607.7
E1010000_0242_J	12.14570	7338.7	01Jun2007, 19:45	7607.7
E1010000_0242_R	10.08650	5988.0	01Jun2007, 20:15	6307.8
E1010000_0263_J	10.08650	6200.3	01Jun2007, 19:30	6307.8
E1010000_0274_R	5.77160	3795.6	01Jun2007, 19:45	3593.6
E1010000_0306_R	19.20590	11420.6	01Jun2007, 20:30	12042.7
E1010000_0307_R	3.45160	2032.1	01Jun2007, 20:45	2147.6
E1010000_0310_J	5.77160	4199.2	01Jun2007, 17:00	3593.6
e101a	3.45160	2205.6	01Jun2007, 17:45	2147.6
e101b	2.32000	2558.3	01Jun2007, 17:00	1446.0
e101c	4.31490	2582.9	01Jun2007, 17:45	2714.2
e101d	2.05920	2060.8	01Jun2007, 17:00	1300.0
e101e	2.58600	2545.3	01Jun2007, 17:00	1636.2
e101f	1.82840	1393.7	01Jun2007, 17:15	1138.0
e101g	2.64580	2544.4	01Jun2007, 17:00	1660.8
e101h	2.81250	1769.8	01Jun2007, 17:45	1763.9
E1150000_0008_J	11.63970	8689.0	01Jun2007, 18:15	7397.3

Hydrologic Element	Drainage Area (MI2)	Peak Discharge (CFS)	Time of Peak	Volume (AC-FT)
E1150000_0008_R	10.78970	7875.9	01Jun2007, 18:30	6852.9
E1150000_0074_J	10.78970	8115.5	01Jun2007, 17:15	6852.9
E1150000_0082_J	9.63970	6803.5	01Jun2007, 18:30	6112.8
E1150000_0082_R	7.82970	5427.5	01Jun2007, 20:15	4954.7
E1150000_0121_J	7.82970	5604.1	01Jun2007, 19:45	4954.7
E1150000_0122_J	7.82970	5705.8	01Jun2007, 19:00	4954.9
E1150000_0122_R	5.83970	4361.0	01Jun2007, 20:15	3672.7
E1150000_0122_SW	7.82970	5604.1	01Jun2007, 19:45	4883.6
E1150400_0002_SW	1.81000	2095.5	01Jun2007, 17:15	1073.2
e115a	5.83970	5616.0	01Jun2007, 17:15	3672.7
e115b1	1.99000	2671.4	01Jun2007, 16:30	1282.2
e115b2	1.15000	1613.1	01Jun2007, 16:30	740.1
e115b3	1.81000	2148.2	01Jun2007, 17:00	1160.2
e115b4	0.85000	1066.0	01Jun2007, 16:45	544.4
E1170000_0001_J	9.65720	6373.4	01Jun2007, 18:30	7116.5
E1170000_0001_R	7.89790	4825.3	01Jun2007, 19:15	6002.6
E1170000_0096_J	7.89790	4849.0	01Jun2007, 18:45	6002.6
E1170000_0096_R	5.23000	2918.0	02Jun2007, 04:00	4307.2
E1170000_0193_J	5.23000	2936.5	02Jun2007, 02:15	4307.2
E1170000_0193_R	3.91000	2682.6	02Jun2007, 03:00	3470.2
E1170000_0241_J	3.91000	2930.8	02Jun2007, 00:30	3470.2
E1170000_0241_SW	3.91000	2930.8	02Jun2007, 00:30	3416.9
E1170000_0254_J	3.91000	2976.8	02Jun2007, 00:00	3470.3
E1170000_0255_J	3.91000	2267.1	01Jun2007, 19:30	2477.8
E1170000_0255_R	2.26000	1351.5	01Jun2007, 21:45	1429.0
E1170000_0324_J	2.26000	1541.3	01Jun2007, 19:15	1429.0
E1170000_0325_D	2.26000	1531.0	01Jun2007, 19:15	1411.4
E1170000_0325_J	2.26000	1545.5	01Jun2007, 17:15	1428.8
E1170000_0326_D	2.26000	1545.5	01Jun2007, 17:15	1396.8
E1170000_0326_J	2.26000	1683.8	01Jun2007, 17:15	1428.5
e117a1	2.26000	1683.8	01Jun2007, 17:15	1428.5
e117a2	1.65000	1278.9	01Jun2007, 17:15	1048.7
e117a3	1.32000	1095.8	01Jun2007, 17:15	837.0
e117b	2.66790	2377.6	01Jun2007, 17:15	1695.4
e117c	1.75930	2116.5	01Jun2007, 17:00	1113.9
E1210000_0004_J	4.29430	2747.3	01Jun2007, 22:30	2683.1
E1210000_0012_J	8.04150	4536.1	01Jun2007, 21:30	5004.0
e121a	4.29430	3029.9	01Jun2007, 17:45	2683.1
e121b	3.74720	2990.5	01Jun2007, 17:30	2320.9
E1220000_0000_J	4.36310	3599.3	01Jun2007, 19:00	2710.8
E1220000_0000_R	2.45240	2071.7	01Jun2007, 19:00	1526.9
e122a	2.45240	2071.7	01Jun2007, 17:30	1526.9
e122b	1.91070	1823.6	01Jun2007, 17:15	1183.9
e124a	1.56210	2177.9	01Jun2007, 17:00	973.6
e125a	2.39820	1392.1	01Jun2007, 18:00	1475.0
e127a	2.24160	1496.8	01Jun2007, 17:30	1407.6
e132a	3.06770	2036.9	01Jun2007, 17:45	1891.8
E1350000_0007_J	2.40000	1522.4	01Jun2007, 20:15	1516.8
E1350000_0007_R	1.21000	796.3	01Jun2007, 20:30	750.6
E1350000_0097_J	1.21000	901.3	01Jun2007, 19:15	752.1

Hydrologic Element	Drainage Area (MI2)	Peak Discharge (CFS)	Time of Peak	Volume (AC-FT)
E1350000_0098_J	1.21000	1073.4	01Jun2007, 17:45	767.6
E1350000_0098_SW	1.21000	901.3	01Jun2007, 19:15	686.0
E1350000_0100_J	1.21000	1082.7	01Jun2007, 17:15	767.7
E1350000_0100_SW	1.21000	1056.1	01Jun2007, 17:45	740.0
e135a1	1.21000	1082.7	01Jun2007, 17:15	767.7
e135a2	1.19000	915.0	01Jun2007, 17:30	766.2
E1410000_0003_J	3.35130	2315.0	01Jun2007, 19:00	2049.6
E1410000_0003_R	1.97550	1425.7	01Jun2007, 19:15	1210.3
e141a	1.97550	1459.4	01Jun2007, 18:00	1210.3
e141b	1.37580	949.0	01Jun2007, 17:45	839.3
E2170000_9901_R	0.00000	1263.3	02Jun2007, 02:30	992.6
e500-02-00	0.00000	0.0	01Jun2007, 00:00	0.0
e500-03-00	0.00000	0.0	01Jun2007, 00:00	0.0
e500-06-00	0.00000	0.0	01Jun2007, 00:00	0.0
E515_01_00	0.00000	96.8	02Jun2007, 02:00	85.0
E515_02_00	0.00000	74.7	02Jun2007, 03:00	71.1
E517_01_00	0.00000	34.3	02Jun2007, 04:00	31.9
E517_02_00	0.00000	28.3	01Jun2007, 18:00	17.6
E517_03_00	0.00000	40.1	02Jun2007, 10:00	53.2
E535_02_00	0.00000	21.2	02Jun2007, 05:15	27.6
E535_03_00	0.00000	20.3	02Jun2007, 06:15	66.1

Project: E100-00-00 Revised Existing
Start of Run: 01Jun2007, 00:00
End of Run: 04Jun2007, 02:45
Compute Time: 04Jan2011, 14:20:04
Volume Units: AC-FT

Simulation Run: E1000000_1%
Basin Model: 1%_E100-00-00
Meteorologic Model: 1%_24HR
Control Specifications: CONTROL15

Hydrologic Element	Drainage Area (MI2)	Peak Discharge (CFS)	Time of Peak	Volume (AC-FT)
E1000000_0002_D	27.14178	12775.2	01Jun2007, 22:00	15849.7
E1000000_0002_J	110.99648	44865.6	01Jun2007, 22:30	69537.1
E1000000_0002_R	109.80308	44587.4	01Jun2007, 22:45	68791.8
E1000000_0069_J	109.80308	44603.9	01Jun2007, 22:30	68791.8
E1000000_0069_R	85.95398	33211.9	02Jun2007, 01:00	53834.5
E1000000_0070_J	87.78468	33385.8	02Jun2007, 00:45	54985.1
E1000000_0168_J	85.95398	33272.5	02Jun2007, 00:15	53834.6
E1000000_0168_R	83.00628	32673.9	02Jun2007, 00:45	51966.7
E1000000_0282_J	83.00628	32881.7	01Jun2007, 23:15	51966.7
E1000000_0282_R	79.63208	32218.6	01Jun2007, 23:45	49821.2
E1000000_0357_J	79.63208	32963.6	01Jun2007, 22:00	49821.2
E1000000_0357_R	73.91708	30873.0	01Jun2007, 22:30	46177.0
E1000000_0361_J	76.19878	31380.3	01Jun2007, 22:15	47654.5
E1000000_0461_J	73.91708	31507.4	01Jun2007, 20:15	46177.0
E1000000_0461_R	58.32678	23772.4	02Jun2007, 02:30	36335.1
E1000000_0479_J	62.27738	24551.8	02Jun2007, 01:45	38791.5
E1000000_0558_J	58.32678	23990.0	02Jun2007, 00:45	36335.2
E1000000_0558_R	45.69868	19216.0	02Jun2007, 02:00	27393.3
E1000000_0562_J	48.66958	20005.2	02Jun2007, 01:30	29227.0
E1000000_0629_J	45.69868	19385.3	02Jun2007, 00:30	27393.3
E1000000_0638_J	45.69868	19385.3	02Jun2007, 00:30	27393.3
E1000000_0638_R	37.65718	16120.9	02Jun2007, 02:15	22389.3
E1000000_0639_W	45.69868	19385.3	02Jun2007, 00:30	27393.3
E1000000_0728_J	37.65718	16522.1	01Jun2007, 23:45	22389.3
E1000000_0728_R	35.67738	15927.4	02Jun2007, 00:15	21146.1
E1000000_0771_J	35.67738	16120.5	01Jun2007, 22:30	21146.1
E1000000_0771_R	31.31428	14141.8	01Jun2007, 23:45	18435.3
E1000000_0816_J	31.31428	14395.0	01Jun2007, 21:30	18435.3
E1000000_0826_J	31.31428	14395.0	01Jun2007, 21:30	18435.3
E1000000_0826_R	27.14178	12741.1	01Jun2007, 23:30	15849.7
E1000000_0826_W	31.31428	14395.0	01Jun2007, 21:30	18435.3
E1000000_0838_J	28.70388	13137.5	01Jun2007, 22:30	16823.3
E1000000_0866_J	27.14178	12760.3	01Jun2007, 22:30	15849.7
E1000000_0872_W	27.14178	12760.3	01Jun2007, 22:30	15849.7
E1000000_0874_R	27.14178	12760.3	01Jun2007, 22:30	15849.7
E1000000_0877_J	27.14178	12760.3	01Jun2007, 22:30	15849.7
E1000000_0905_R	24.74358	13007.1	01Jun2007, 22:45	15375.4
E1000000_0935_J	24.74358	13035.9	01Jun2007, 22:15	15375.4
E1000000_0935_R	19.34908	11026.5	01Jun2007, 23:30	12064.9
E1000000_0949_J	27.14178	14052.0	01Jun2007, 22:00	16850.4
E1000000_0971_J	21.39228	11400.8	01Jun2007, 23:00	13325.8
E1000000_1007_J	19.34908	12025.0	01Jun2007, 20:15	12064.9
E1000000_1007_R	17.10749	10782.1	01Jun2007, 20:30	10653.9
E1000000_1045_J	17.10749	11079.3	01Jun2007, 19:00	10654.0

Hydrologic Element	Drainage Area (MI2)	Peak Discharge (CFS)	Time of Peak	Volume (AC-FT)
E1000000_1045_R	12.61800	8009.9	01Jun2007, 19:15	7833.3
E1000000_1050_J	14.70749	9497.0	01Jun2007, 18:45	9131.6
E1000000_1056_J	2.08949	1851.8	01Jun2007, 17:00	1298.3
E1000000_1104_R	9.99190	6147.7	01Jun2007, 20:45	6174.0
E1000000_1105_J	12.61800	8071.3	01Jun2007, 18:15	7833.3
E1000000_1166_R	7.82590	4827.2	01Jun2007, 20:30	4828.0
E1000000_1167_J	9.99190	6217.9	01Jun2007, 19:45	6174.0
E1000000_1203_J	7.82590	5377.1	01Jun2007, 18:00	4828.0
E1000000_1210_J	4.75820	3353.7	01Jun2007, 18:15	2936.2
E1000000_1210_R	3.00760	1786.1	01Jun2007, 19:45	1868.1
e100a	3.00760	1826.9	01Jun2007, 18:15	1868.1
e100b	1.75060	2140.9	01Jun2007, 17:15	1068.2
e100c	2.16600	1968.3	01Jun2007, 17:15	1346.0
e100d	2.62610	3500.3	01Jun2007, 17:00	1659.3
e100e1	0.87199	1076.0	01Jun2007, 17:00	546.6
e100e2	1.21750	793.3	01Jun2007, 17:30	751.7
e100f	2.04320	3304.9	01Jun2007, 16:45	1260.9
e100g	2.61040	2058.9	01Jun2007, 17:15	1612.0
e100h	1.97980	1939.3	01Jun2007, 17:00	1243.2
e100i	2.97090	2162.7	01Jun2007, 17:30	1833.7
e100j	3.95060	3603.2	01Jun2007, 17:15	2456.3
e100k	3.43330	2392.0	01Jun2007, 17:15	2166.7
e100l	2.28170	3952.3	01Jun2007, 16:30	1477.5
e100m	3.37420	5078.7	01Jun2007, 16:45	2145.5
e100n	2.94770	3619.9	01Jun2007, 17:00	1867.9
e100o	1.83070	2892.4	01Jun2007, 16:45	1150.6
e100p	1.19340	1823.9	01Jun2007, 16:30	745.4
E1010000_0003_J	22.01840	12966.8	01Jun2007, 20:00	13806.7
E1010000_0090_J	19.20590	11487.4	01Jun2007, 19:30	12042.7
E1010000_0090_R	16.56010	9791.4	01Jun2007, 20:30	10381.9
E1010000_0160_J	16.56010	9827.7	01Jun2007, 20:00	10381.9
E1010000_0160_R	14.73170	8770.9	01Jun2007, 20:45	9243.9
E1010000_0207_J	14.73170	8871.3	01Jun2007, 19:15	9243.9
E1010000_0207_R	12.14570	7207.3	01Jun2007, 20:45	7607.7
E1010000_0242_J	12.14570	7338.7	01Jun2007, 19:45	7607.7
E1010000_0242_R	10.08650	5988.0	01Jun2007, 20:15	6307.8
E1010000_0263_J	10.08650	6200.3	01Jun2007, 19:30	6307.8
E1010000_0274_R	5.77160	3795.6	01Jun2007, 19:45	3593.6
E1010000_0306_R	19.20590	11420.6	01Jun2007, 20:30	12042.7
E1010000_0307_R	3.45160	2032.1	01Jun2007, 20:45	2147.6
E1010000_0310_J	5.77160	4199.2	01Jun2007, 17:00	3593.6
e101a	3.45160	2205.6	01Jun2007, 17:45	2147.6
e101b	2.32000	2558.3	01Jun2007, 17:00	1446.0
e101c	4.31490	2582.9	01Jun2007, 17:45	2714.2
e101d	2.05920	2060.8	01Jun2007, 17:00	1300.0
e101e	2.58600	2545.3	01Jun2007, 17:00	1636.2
e101f	1.82840	1393.7	01Jun2007, 17:15	1138.0
e101g	2.64580	2544.4	01Jun2007, 17:00	1660.8
e101h	2.81250	1769.8	01Jun2007, 17:45	1763.9
E1150000_0008_J	11.63970	8750.1	01Jun2007, 18:00	7385.5

Hydrologic Element	Drainage Area (MI2)	Peak Discharge (CFS)	Time of Peak	Volume (AC-FT)
E1150000_0008_R	10.78970	7939.5	01Jun2007, 18:30	6841.1
E1150000_0074_J	10.78970	8122.9	01Jun2007, 17:15	6841.1
E1150000_0082_J	9.86970	7095.2	01Jun2007, 18:30	6251.9
E1150000_0082_R	7.82970	5475.8	01Jun2007, 20:00	4947.3
E1150000_0122_J	7.82970	5654.7	01Jun2007, 19:00	4947.3
E1150000_0122_R	5.83970	4327.0	01Jun2007, 20:15	3672.7
E1150400_0002_D	2.04000	2396.4	01Jun2007, 17:00	1214.5
e115a	5.83970	5616.0	01Jun2007, 17:15	3672.7
e115b1	1.99000	2660.5	01Jun2007, 16:30	1274.6
e115b2	0.92000	1324.1	01Jun2007, 16:30	589.3
e115b3	2.04000	2405.4	01Jun2007, 16:45	1306.6
e115b4	0.85000	1066.0	01Jun2007, 16:45	544.4
E1170000_0001_J	9.65720	6397.1	01Jun2007, 18:30	7108.2
E1170000_0001_R	7.89790	4861.2	01Jun2007, 19:15	5994.3
E1170000_0096_J	7.89790	4882.7	01Jun2007, 18:45	5994.3
E1170000_0096_R	5.23000	3032.0	02Jun2007, 04:15	4299.7
E1170000_0193_J	5.23000	3077.5	02Jun2007, 02:00	4299.7
E1170000_0193_R	3.91000	2800.7	02Jun2007, 02:30	3467.2
E1170000_0254_J	3.91000	3002.7	02Jun2007, 00:00	3467.2
E1170000_0255_J	3.91000	2334.1	01Jun2007, 19:30	2466.5
E1170000_0255_R	2.26000	1387.9	01Jun2007, 21:30	1425.4
E1170000_0326_J	2.26000	1680.3	01Jun2007, 17:15	1425.4
e117a1	2.26000	1680.3	01Jun2007, 17:15	1425.4
e117a2	1.65000	1300.6	01Jun2007, 17:15	1041.1
e117a3	1.32000	1100.5	01Jun2007, 17:15	832.5
e117b	2.66790	2377.3	01Jun2007, 17:15	1694.6
e117c	1.75930	2116.5	01Jun2007, 17:00	1113.9
E1210000_0004_J	4.29430	2747.3	01Jun2007, 22:30	2683.1
E1210000_0012_J	8.04150	4536.1	01Jun2007, 21:30	5004.0
e121a	4.29430	3029.9	01Jun2007, 17:45	2683.1
e121b	3.74720	2990.5	01Jun2007, 17:30	2320.9
E1220000_0000_J	4.36310	3599.3	01Jun2007, 19:00	2710.8
E1220000_0000_R	2.45240	2071.7	01Jun2007, 19:00	1526.9
e122a	2.45240	2071.7	01Jun2007, 17:30	1526.9
e122b	1.91070	1823.6	01Jun2007, 17:15	1183.9
e124a	1.56210	2177.9	01Jun2007, 17:00	973.6
e125a	2.39820	1392.1	01Jun2007, 18:00	1475.0
e127a	2.24159	1498.2	01Jun2007, 17:30	1411.0
e132a	3.06770	2036.9	01Jun2007, 17:45	1891.8
E1350000_0007_J	2.40000	1651.6	01Jun2007, 19:45	1522.3
E1350000_0007_R	1.28000	934.0	01Jun2007, 20:00	811.7
E1350000_0097_J	1.28000	1126.0	01Jun2007, 17:30	811.8
E1350000_0100_J	1.28000	1112.2	01Jun2007, 17:15	812.1
e135a1	1.28000	1112.2	01Jun2007, 17:15	812.1
e135a2	1.12000	830.7	01Jun2007, 17:45	710.6
E1410000_0003_J	3.35130	2315.0	01Jun2007, 19:00	2049.6
E1410000_0003_R	1.97550	1425.7	01Jun2007, 19:15	1210.3
e141a	1.97550	1459.4	01Jun2007, 18:00	1210.3
e141b	1.37580	949.0	01Jun2007, 17:45	839.3
E2170000_9901_R	0.00000	1276.7	02Jun2007, 02:45	1000.7

Hydrologic Element	Drainage Area (MI2)	Peak Discharge (CFS)	Time of Peak	Volume (AC-FT)
e500-02-00	0.00000	0.0	01Jun2007, 00:00	0.0
e500-03-00	0.00000	0.0	01Jun2007, 00:00	0.0
e500-06-00	0.00000	0.0	01Jun2007, 00:00	0.0
E515_01_00	0.00000	99.2	02Jun2007, 02:15	90.0
E535_02_00	0.00000	26.5	02Jun2007, 05:30	46.9
E5350000_0097_SW	1.28000	1105.7	01Jun2007, 17:30	764.9

Project: Seg_A_Offsite Simulation Run: 10% Event

Start of Run: 01Jun2007, 00:00 Basin Model: E115-00-00
End of Run: 04Jun2007, 02:45 Meteorologic Model: 10% Event
Compute Time: 24Aug2009, 12:03:00 Control Specifications: Control15

Volume Units: AC-FT

Hydrologic Element	Drainage Area (MI2)	Peak Discharge (CFS)	Time of Peak	Volume (AC-FT)
E1150000_0074_J	8.21	4789.0	01Jun2007, 17:45	2740.2
E1150000_0074_R	7.78	4497.8	01Jun2007, 17:45	2593.4
E1150000_0122_J	7.78	4528.3	01Jun2007, 17:30	2593.4
E1150000_0122_R	5.81	3246.2	01Jun2007, 17:45	1920.6
E1150400_0001_J	1.82	1095.4	01Jun2007, 17:45	621.4
e1150400_0002_D	1.82	1002.8	01Jun2007, 17:45	575.8
e115a	5.81	3311.4	01Jun2007, 17:15	1920.6
e115b1	1.97	1628.1	01Jun2007, 16:30	672.7
e115b2a	0.43	459.0	01Jun2007, 16:30	146.8
e115b2b	0.41	456.1	01Jun2007, 16:30	140.0
e115b3	1.82	1346.8	01Jun2007, 17:00	621.5
E515_01_00	0.00	94.0	01Jun2007, 18:00	45.5

Project: Seg_A_Offsite Simulation Run: 10% Event

Start of Run: 01Jun2007, 00:00 Basin Model: E115-00-00
End of Run: 04Jun2007, 02:45 Meteorologic Model: 10% Event
Compute Time: 24Aug2009, 12:09:00 Control Specifications: Control15

Volume Units: AC-FT

Hydrologic Element	Drainage Area (MI2)	Peak Discharge (CFS)	Time of Peak	Volume (AC-FT)
E1150000_0074_J	8.21	4507.0	01Jun2007, 17:45	2744.6
E1150000_0074_R	7.78	4215.7	01Jun2007, 17:45	2597.7
E1150000_0122_J	7.78	4528.2	01Jun2007, 17:30	2597.9
E1150000_0122_R	5.81	3246.2	01Jun2007, 17:45	1920.6
E1150000_0122_SW	7.78	4182.8	01Jun2007, 17:30	2546.2
E1150000_121_J	7.78	4237.7	01Jun2007, 17:30	2597.7
E1150400_0001_J	1.82	977.3	01Jun2007, 18:30	622.6
e1150400_0002_D	1.82	853.2	01Jun2007, 18:30	545.7
e115a	5.81	3311.4	01Jun2007, 17:15	1920.6
e115b1	1.97	1624.9	01Jun2007, 16:30	677.3
e115b2a	0.43	459.0	01Jun2007, 16:30	146.8
e115b2b	0.41	452.5	01Jun2007, 16:30	141.2
e115b3	1.82	1344.4	01Jun2007, 17:00	622.8
E515_01_00	0.00	124.1	01Jun2007, 18:30	76.9
E515_02_00	0.00	88.1	01Jun2007, 19:00	51.5

Project: Seg_A_Offsite Simulation Run: 10% Event

Start of Run: 01Jun2007, 00:00 Basin Model: E115-00-00
End of Run: 04Jun2007, 02:45 Meteorologic Model: 10% Event
Compute Time: 24Aug2009, 12:06:14 Control Specifications: Control15

Volume Units: AC-FT

Hydrologic Element	Drainage Area (MI2)	Peak Discharge (CFS)	Time of Peak	Volume (AC-FT)
E1150000_0074_J	8.21	4792.9	01Jun2007, 17:45	2744.7
E1150000_0074_R	7.78	4501.6	01Jun2007, 17:45	2597.9
E1150000_0122_J	7.78	4532.4	01Jun2007, 17:30	2597.9
E1150000_0122_R	5.81	3246.2	01Jun2007, 17:45	1920.6
E1150400_0001_J	1.82	1094.9	01Jun2007, 17:45	622.6
e1150400_0002_D	1.82	1002.1	01Jun2007, 17:45	576.9
e115a	5.81	3311.4	01Jun2007, 17:15	1920.6
e115b1	1.97	1635.3	01Jun2007, 16:30	677.3
e115b2a	0.43	459.0	01Jun2007, 16:30	146.8
e115b2b	0.41	460.7	01Jun2007, 16:30	141.2
e115b3	1.82	1347.4	01Jun2007, 17:00	622.8
E515_01_00	0.00	94.1	01Jun2007, 18:00	45.7

Project: Seg_A_Offsite Simulation Run: 1% Event

Start of Run: 01Jun2007, 00:00 Basin Model: E115-00-00
End of Run: 04Jun2007, 02:45 Meteorologic Model: 1% Event
Compute Time: 24Aug2009, 12:01:08 Control Specifications: Control15

Volume Units: AC-FT

Hydrologic Element	Drainage Area (MI2)	Peak Discharge (CFS)	Time of Peak	Volume (AC-FT)
E1150000_0074_J	8.21	6300.3	01Jun2007, 18:00	5191.2
E1150000_0074_R	7.78	5862.1	01Jun2007, 18:15	4915.8
E1150000_0122_J	7.78	6225.8	01Jun2007, 17:15	4915.8
E1150000_0122_R	5.81	4467.5	01Jun2007, 21:00	3654.0
E1150400_0001_J	1.82	2242.2	01Jun2007, 17:30	1165.5
e1150400_0002_D	1.82	2083.9	01Jun2007, 17:30	1058.1
e115a	5.81	5590.3	01Jun2007, 17:15	3654.0
e115b1	1.97	2626.1	01Jun2007, 16:30	1261.8
e115b2a	0.43	725.2	01Jun2007, 16:30	275.4
e115b2b	0.41	718.0	01Jun2007, 16:30	262.6
e115b3	1.82	2212.8	01Jun2007, 17:00	1165.7
E515_01_00	0.00	159.9	01Jun2007, 17:15	107.4

Project: Seg_A_Offsite Simulation Run: 1% Event

Start of Run: 01Jun2007, 00:00 Basin Model: E115-00-00
End of Run: 04Jun2007, 02:45 Meteorologic Model: 1% Event
Compute Time: 24Aug2009, 12:07:33 Control Specifications: Control15

Volume Units: AC-FT

Hydrologic Element	Drainage Area (MI2)	Peak Discharge (CFS)	Time of Peak	Volume (AC-FT)
E1150000_0074_J	8.21	6112.4	01Jun2007, 19:00	5195.9
E1150000_0074_R	7.78	5805.5	01Jun2007, 19:15	4920.5
E1150000_0122_J	7.78	6223.1	01Jun2007, 17:15	4920.6
E1150000_0122_R	5.81	4467.5	01Jun2007, 21:00	3654.0
E1150000_0122_SW	7.78	5926.1	01Jun2007, 18:00	4826.5
E1150000_121_J	7.78	6049.5	01Jun2007, 18:00	4920.5
E1150400_0001_J	1.82	2240.4	01Jun2007, 17:30	1166.8
e1150400_0002_D	1.82	2082.3	01Jun2007, 17:30	1059.4
e115a	5.81	5590.3	01Jun2007, 17:15	3654.0
e115b1	1.97	2620.2	01Jun2007, 16:30	1266.6
e115b2a	0.43	725.2	01Jun2007, 16:30	275.4
e115b2b	0.41	712.7	01Jun2007, 16:30	263.9
e115b3	1.82	2208.4	01Jun2007, 17:00	1167.0
E515_01_00	0.00	158.1	01Jun2007, 17:30	107.4
E515_02_00	0.00	123.4	01Jun2007, 18:00	94.0

Project: Seg_A_Offsite Simulation Run: 1% Event

Start of Run: 01Jun2007, 00:00 Basin Model: E115-00-00
End of Run: 04Jun2007, 02:45 Meteorologic Model: 1% Event
Compute Time: 24Aug2009, 12:04:39 Control Specifications: Control15

Volume Units: AC-FT

Hydrologic Element	Drainage Area (MI2)	Peak Discharge (CFS)	Time of Peak	Volume (AC-FT)
E1150000_0074_J	8.21	6305.2	01Jun2007, 18:00	5196.0
E1150000_0074_R	7.78	5866.4	01Jun2007, 18:15	4920.6
E1150000_0122_J	7.78	6232.1	01Jun2007, 17:15	4920.6
E1150000_0122_R	5.81	4467.5	01Jun2007, 21:00	3654.0
E1150400_0001_J	1.82	2242.7	01Jun2007, 17:30	1166.8
e1150400_0002_D	1.82	2084.4	01Jun2007, 17:30	1059.4
e115a	5.81	5590.3	01Jun2007, 17:15	3654.0
e115b1	1.97	2635.7	01Jun2007, 16:30	1266.6
e115b2a	0.43	725.2	01Jun2007, 16:30	275.4
e115b2b	0.41	724.4	01Jun2007, 16:30	263.9
e115b3	1.82	2213.3	01Jun2007, 17:00	1167.0
E515_01_00	0.00	159.9	01Jun2007, 17:15	107.4

Project: E117-00-00 Simulation Run: 10% Revised Ext

Start of Run: 01Jun2007, 00:00 Basin Model: E117-Revised Ext
End of Run: 04Jun2007, 02:45 Meteorologic Model: 10%_24HR
Compute Time: 24Aug2009, 11:48:01 Control Specifications: Control 15

Volume Units: AC-FT

Hydrologic Element	Drainage Area (MI2)	Peak Discharge (CFS)	Time of Peak	Volume (AC-FT)
A-Hempstead	2.22	977.3	01Jun2007, 17:00	737.5
A-Offsite	0.12	102.1	01Jun2007, 16:30	39.9
B-Hempstead	0.62	388.9	01Jun2007, 16:45	206.0
B-Offsite	0.20	141.9	01Jun2007, 16:45	66.4
D-Hempstead	0.09	82.3	01Jun2007, 16:30	29.9
D-Offsite	0.35	245.9	01Jun2007, 16:45	116.3

Project: E117-00-00 Simulation Run: 10% Proposed

Start of Run: 01Jun2007, 00:00 Basin Model: E117-Proposed
End of Run: 04Jun2007, 02:45 Meteorologic Model: 10%_24HR
Compute Time: 24Aug2009, 11:45:47 Control Specifications: Control 15

Volume Units: AC-FT

Hydrologic Element	Drainage Area (MI2)	Peak Discharge (CFS)	Time of Peak	Volume (AC-FT)
A-Hempstead	2.20	966.9	01Jun2007, 17:00	730.9
A-Offsite	0.12	102.1	01Jun2007, 16:30	39.9
B-Hempstead	0.62	388.9	01Jun2007, 16:45	206.0
B-Offsite	0.20	141.9	01Jun2007, 16:45	66.4
D-Hempstead	0.09	82.3	01Jun2007, 16:30	29.9
D-Offsite	0.35	245.9	01Jun2007, 16:45	116.3

Project: E117-00-00 Simulation Run: 1% Revised Ext

Start of Run: 01Jun2007, 00:00 Basin Model: E117-Revised Ext
End of Run: 04Jun2007, 02:45 Meteorologic Model: 1%_24HR
Compute Time: 24Aug2009, 11:47:03 Control Specifications: Control 15

Volume Units: AC-FT

Hydrologic Element	Drainage Area (MI2)	Peak Discharge (CFS)	Time of Peak	Volume (AC-FT)
A-Hempstead	2.22	1677.4	01Jun2007, 17:15	1400.0
A-Offsite	0.12	164.5	01Jun2007, 16:30	75.7
B-Hempstead	0.62	646.2	01Jun2007, 17:00	391.0
B-Offsite	0.20	233.6	01Jun2007, 16:45	126.1
D-Hempstead	0.09	131.8	01Jun2007, 16:30	56.8
D-Offsite	0.35	405.0	01Jun2007, 16:45	220.7

Project: E117-00-00 Simulation Run: 1% Proposed

Start of Run: 01Jun2007, 00:00 Basin Model: E117-Proposed
End of Run: 04Jun2007, 02:45 Meteorologic Model: 1%_24HR
Compute Time: 24Aug2009, 11:43:15 Control Specifications: Control 15

Volume Units: AC-FT

Hydrologic Element	Drainage Area (MI2)	Peak Discharge (CFS)	Time of Peak	Volume (AC-FT)
A-Hempstead	2.20	1659.7	01Jun2007, 17:15	1387.4
A-Offsite	0.12	164.5	01Jun2007, 16:30	75.7
B-Hempstead	0.62	646.2	01Jun2007, 17:00	391.0
B-Offsite	0.20	233.6	01Jun2007, 16:45	126.1
D-Hempstead	0.09	131.8	01Jun2007, 16:30	56.8
D-Offsite	0.35	405.0	01Jun2007, 16:45	220.7

Project: E127Aoffsite Simulation Run: Exist10%

Start of Run:	01Jun2007, 00:00	Basin Model:	E127revexisting
End of Run:	04Jun2007, 02:45	Meteorologic Model:	10% Event
Compute Time:	14Aug2009, 14:47:03	Control Specifications:	Control15

Volume Units: IN

Hydrologic Element	Drainage Area (MI2)	Peak Discharge (CFS)	Time of Peak	Volume (IN)
E127A	1.15503	585.5	01Jun2007, 17:00	6.21

Project: E127Aoffsite Simulation Run: Prop10%

Start of Run:	01Jun2007, 00:00	Basin Model:	E127prop
End of Run:	04Jun2007, 02:45	Meteorologic Model:	10% Event
Compute Time:	14Aug2009, 14:57:02	Control Specifications:	Control15

Volume Units: IN

Hydrologic Element	Drainage Area (MI2)	Peak Discharge (CFS)	Time of Peak	Volume (IN)
E127A	1.0809	560.3	01Jun2007, 17:00	6.21

Project: E127Aoffsite Simulation Run: Exist1%

Start of Run:	01Jun2007, 00:00	Basin Model:	E127revexisting
End of Run:	04Jun2007, 02:45	Meteorologic Model:	1% Event
Compute Time:	26Aug2009, 11:05:04	Control Specifications:	Control15

Volume Units: IN

Hydrologic Element	Drainage Area (MI2)	Peak Discharge (CFS)	Time of Peak	Volume (IN)
E127A	1.15503	994.2	01Jun2007, 17:00	11.80

Project: E127Aoffsite Simulation Run: Prop1%

Start of Run:	01Jun2007, 00:00	Basin Model:	E127prop
End of Run:	04Jun2007, 02:45	Meteorologic Model:	1% Event
Compute Time:	10Aug2009, 11:26:01	Control Specifications:	Control15

Volume Units: IN

Hydrologic Element	Drainage Area (MI2)	Peak Discharge (CFS)	Time of Peak	Volume (IN)
E127A	1.0809	950.3	01Jun2007, 17:00	11.80

Project: Seg_D_Offsite Simulation Run: 10% Existing

Start of Run: 01Jun2007, 00:00
End of Run: 04Jun2007, 02:45
Compute Time: 24Aug2009, 11:54:05

Basin Model: E135-00-00 Existing
Meteorologic Model: 10% Event
Control Specifications: Control15

Volume Units: AC-FT

Hydrologic Element	Drainage Area (MI2)	Peak Discharge (CFS)	Time of Peak	Volume (AC-FT)
e135a1	1.27	648.1	01Jun2007, 17:15	426.4

Project: Seg_D_Offsite Simulation Run: 10% Mitigated

Start of Run:	01Jun2007, 00:00	Basin Model:	E135-00-00 Mitigated
End of Run:	04Jun2007, 02:45	Meteorologic Model:	10% Event
Compute Time:	24Aug2009, 11:57:07	Control Specifications:	Control15

Volume Units: AC-FT

Hydrologic Element	Drainage Area (MI2)	Peak Discharge (CFS)	Time of Peak	Volume (AC-FT)
e135a1	1.17	602.1	01Jun2007, 17:00	392.9

Project: Seg_D_Offsite Simulation Run: 10% Proposed

Start of Run: 01Jun2007, 00:00
End of Run: 04Jun2007, 02:45
Compute Time: 24Aug2009, 11:55:43

Basin Model: E135-00-00 Proposed
Meteorologic Model: 10% Event
Control Specifications: Control15

Volume Units: AC-FT

Hydrologic Element	Drainage Area (MI2)	Peak Discharge (CFS)	Time of Peak	Volume (AC-FT)
e135a1	1.22	627.2	01Jun2007, 17:00	409.6

Project: Seg_D_Offsite Simulation Run: 1% Existing

Start of Run:	01Jun2007, 00:00	Basin Model:	E135-00-00 Existing
End of Run:	04Jun2007, 02:45	Meteorologic Model:	1% Event
Compute Time:	24Aug2009, 11:52:48	Control Specifications:	Control15

Volume Units: AC-FT

Hydrologic Element	Drainage Area (MI2)	Peak Discharge (CFS)	Time of Peak	Volume (AC-FT)
e135a1	1.27	1100.1	01Jun2007, 17:15	805.7

Project: Seg_D_Offsite Simulation Run: 1% Mitigated

Start of Run: 01Jun2007, 00:00
End of Run: 04Jun2007, 02:45
Compute Time: 24Aug2009, 11:56:24

Basin Model: E135-00-00 Mitigated
Meteorologic Model: 1% Event
Control Specifications: Control15

Volume Units: AC-FT

Hydrologic Element	Drainage Area (MI2)	Peak Discharge (CFS)	Time of Peak	Volume (AC-FT)
e135a1	1.17	1021.8	01Jun2007, 17:15	742.3

Project: Seg_D_Offsite Simulation Run: 1% Proposed

Start of Run: 01Jun2007, 00:00
End of Run: 04Jun2007, 02:45
Compute Time: 24Aug2009, 11:54:43

Basin Model: E135-00-00 Proposed
Meteorologic Model: 1% Event
Control Specifications: Control15

Volume Units: AC-FT

Hydrologic Element	Drainage Area (MI2)	Peak Discharge (CFS)	Time of Peak	Volume (AC-FT)
e135a1	1.22	1063.9	01Jun2007, 17:15	774.0

E100-00-00 Mitigated
HEC-RAS Output

HEC-RAS Plan: Mitigated River: E100-00-00 Reach: E100-00-00_N034

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
E100-00-00_N034	135006.0	10PCT_10yr	280.00	122.35	129.44		129.53	0.000401	2.47	174.48	164.81	0.28
E100-00-00_N034	135006.0	2PCT_50yr	430.00	122.35	130.43		130.52	0.000415	2.49	952.38	1311.36	0.26
E100-00-00_N034	135006.0	1PCT_100yr	500.00	122.35	130.76		130.85	0.000397	2.48	1427.58	1511.50	0.25
E100-00-00_N034	133960.0	10PCT_10yr	280.00	121.48	128.75	126.17	128.86	0.001200	2.65	106.57	200.12	0.28
E100-00-00_N034	133960.0	2PCT_50yr	430.00	121.48	129.70	126.99	129.82	0.001233	2.84	167.93	929.61	0.29
E100-00-00_N034	133960.0	1PCT_100yr	500.00	121.48	130.05	127.28	130.17	0.001226	2.88	201.05	1380.12	0.29
E100-00-00_N034	133211	10PCT_10yr	280.00	120.98	126.69	125.67	127.07	0.006442	5.00	56.01	25.25	0.59
E100-00-00_N034	133211	2PCT_50yr	430.00	120.98	127.53		127.98	0.006718	5.35	80.31	32.13	0.60
E100-00-00_N034	133211	1PCT_100yr	500.00	120.98	127.87		128.33	0.006758	5.45	91.69	35.27	0.60
E100-00-00_N034	133191	10PCT_10yr	280.00	120.98	125.67	125.67	126.69	0.016188	8.11	34.52	16.92	1.00
E100-00-00_N034	133191	2PCT_50yr	430.00	120.98	126.50	126.50	127.59	0.018303	8.38	51.32	23.69	1.00
E100-00-00_N034	133191	1PCT_100yr	500.00	120.98	126.78	126.78	127.92	0.018723	8.56	58.44	26.02	1.01
E100-00-00_N034	133109	10PCT_10yr	280.00	120.02	124.43		124.47	0.000052	1.51	185.77	59.93	0.15
E100-00-00_N034	133109	2PCT_50yr	430.00	120.02	125.99		126.02	0.000067	1.50	287.09	70.18	0.13
E100-00-00_N034	133109	1PCT_100yr	500.00	120.02	126.66		126.70	0.000069	1.49	336.12	74.63	0.12
E100-00-00_N034	132955.0	10PCT_10yr	340.00	118.90	124.41	121.39	124.45	0.000407	1.65	206.37	61.48	0.16
E100-00-00_N034	132955.0	2PCT_50yr	520.00	118.90	125.96	121.86	126.00	0.000301	1.68	309.75	71.38	0.14
E100-00-00_N034	132955.0	1PCT_100yr	610.00	118.90	126.64	122.06	126.68	0.000273	1.70	359.52	75.61	0.14
E100-00-00_N034	132898.0		Bridge									
E100-00-00_N034	132844.0	10PCT_10yr	340.00	118.39	123.85	120.88	123.89	0.000425	1.67	203.28	61.14	0.16
E100-00-00_N034	132844.0	2PCT_50yr	520.00	118.39	125.41	121.35	125.45	0.000309	1.69	306.92	71.13	0.14
E100-00-00_N034	132844.0	1PCT_100yr	610.00	118.39	126.10	121.55	126.14	0.000278	1.71	357.19	75.41	0.14
E100-00-00_N034	132744.	10PCT_10yr	340.00	118.30	123.80		123.84	0.000468	1.74	194.93	59.34	0.17
E100-00-00_N034	132744.	2PCT_50yr	520.00	118.30	125.37		125.42	0.000337	1.75	297.04	70.12	0.15
E100-00-00_N034	132744.	1PCT_100yr	610.00	118.30	126.06		126.11	0.000301	1.76	347.03	74.87	0.14
E100-00-00_N034	131721.0	10PCT_10yr	390.00	117.42	123.43		123.46	0.000306	1.57	248.16	64.49	0.14
E100-00-00_N034	131721.0	2PCT_50yr	590.00	117.42	125.10		125.14	0.000235	1.62	363.24	73.25	0.13
E100-00-00_N034	131721.0	1PCT_100yr	700.00	117.42	125.80		125.85	0.000224	1.68	416.43	76.96	0.13
E100-00-00_N034	131453.0	10PCT_10yr	390.00	117.00	123.34	119.67	123.38	0.000324	1.58	247.47	66.55	0.14
E100-00-00_N034	131453.0	2PCT_50yr	590.00	117.00	125.03	120.25	125.07	0.000234	1.61	367.06	74.72	0.13
E100-00-00_N034	131453.0	1PCT_100yr	700.00	117.00	125.75	120.54	125.79	0.000222	1.66	421.44	78.18	0.13
E100-00-00_N034	131442.5		Bridge									
E100-00-00_N034	131432.0	10PCT_10yr	390.00	116.98	123.31	119.65	123.35	0.000327	1.58	246.71	66.50	0.14
E100-00-00_N034	131432.0	2PCT_50yr	590.00	116.98	125.01	120.23	125.05	0.000234	1.61	367.00	74.72	0.13
E100-00-00_N034	131432.0	1PCT_100yr	700.00	116.98	125.72	120.52	125.76	0.000222	1.66	421.13	78.16	0.13
E100-00-00_N034	131331.	10PCT_10yr	390.00	116.84	123.28		123.32	0.000297	1.51	258.64	69.94	0.14
E100-00-00_N034	131331.	2PCT_50yr	590.00	116.84	124.99		125.03	0.000214	1.52	387.49	80.54	0.12
E100-00-00_N034	131331.	1PCT_100yr	700.00	116.84	125.70		125.74	0.000202	1.57	446.22	84.93	0.12
E100-00-00_N034	130861.0	10PCT_10yr	390.00	116.18	123.19		123.21	0.000149	1.18	329.85	76.55	0.10
E100-00-00_N034	130861.0	2PCT_50yr	590.00	116.18	124.93		124.95	0.000124	1.25	471.77	87.03	0.09
E100-00-00_N034	130861.0	1PCT_100yr	700.00	116.18	125.64		125.66	0.000122	1.31	535.21	91.14	0.10
E100-00-00_N034	129818.0	10PCT_10yr	1130.00	112.78	122.75		122.84	0.000520	2.49	453.59	86.16	0.19
E100-00-00_N034	129818.0	2PCT_50yr	1700.00	112.78	124.49		124.61	0.000505	2.77	613.03	96.95	0.19
E100-00-00_N034	129818.0	1PCT_100yr	1990.00	112.78	125.19		125.32	0.000513	2.92	694.22	189.89	0.20
E100-00-00_N034	128748.	10PCT_10yr	1130.00	113.76	122.21		122.30	0.000502	2.37	476.46	95.86	0.19
E100-00-00_N034	128748.	2PCT_50yr	1700.00	113.76	123.98		124.08	0.000472	2.58	667.64	190.02	0.19
E100-00-00_N034	128748.	1PCT_100yr	1990.00	113.76	124.67		124.79	0.000481	2.69	827.36	310.39	0.19
E100-00-00_N034	128646.0	10PCT_10yr	1170.00	113.85	122.12	117.82	122.23	0.000589	2.73	428.31	76.86	0.20
E100-00-00_N034	128646.0	2PCT_50yr	1760.00	113.85	123.87	118.55	124.02	0.000586	3.09	569.35	159.12	0.21
E100-00-00_N034	128646.0	1PCT_100yr	2060.00	113.85	124.55	118.89	124.72	0.000608	3.28	627.56	265.29	0.22
E100-00-00_N034	128595.0		Bridge									
E100-00-00_N034	128540.0	10PCT_10yr	1170.00	113.03	122.04	117.00	122.13	0.000407	2.40	486.75	79.97	0.17
E100-00-00_N034	128540.0	2PCT_50yr	1760.00	113.03	123.79	117.73	123.91	0.000433	2.78	632.82	87.27	0.18
E100-00-00_N034	128540.0	1PCT_100yr	2060.00	113.03	124.46	118.07	124.60	0.000459	2.97	692.69	244.54	0.19
E100-00-00_N034	128236.0	10PCT_10yr	1270.00	110.63	121.93		122.01	0.000354	2.24	566.11	93.63	0.16
E100-00-00_N034	128236.0	2PCT_50yr	1900.00	110.63	123.67		123.78	0.000377	2.57	738.49	104.40	0.17
E100-00-00_N034	128236.0	1PCT_100yr	2230.00	110.63	124.34		124.46	0.000404	2.75	856.13	261.04	0.18
E100-00-00_N034	127300.0	10PCT_10yr	1400.00	111.50	121.60		121.68	0.000351	2.25	621.21	101.68	0.16
E100-00-00_N034	127300.0	2PCT_50yr	2090.00	111.50	123.32		123.43	0.000374	2.60	804.33	111.42	0.17
E100-00-00_N034	127300.0	1PCT_100yr	2450.00	111.50	123.96		124.08	0.000402	2.79	892.41	190.18	0.18
E100-00-00_N034	126183.0	10PCT_10yr	1480.00	110.38	121.15		121.25	0.000423	2.49	594.41	97.00	0.18
E100-00-00_N034	126183.0	2PCT_50yr	2220.00	110.38	122.82		122.95	0.000471	2.90	789.44	261.73	0.19
E100-00-00_N034	126183.0	1PCT_100yr	2600.00	110.38	123.42		123.57	0.000513	3.12	1158.76	1099.72	0.20

E100-00-00 Mitigated
HEC-RAS Output

HEC-RAS Plan: Mitigated River: E100-00-00 Reach: E100-00-00_N034 (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
E100-00-00_N034	125563.	10PCT_10yr	1480.00	111.26	120.93		121.01	0.000337	2.26	654.69	105.53	0.16
E100-00-00_N034	125563.	2PCT_50yr	2220.00	111.26	122.58		122.69	0.000376	2.65	911.48	389.47	0.17
E100-00-00_N034	125563.	1PCT_100yr	2600.00	111.26	123.15		123.28	0.000413	2.87	1176.66	586.12	0.18
E100-00-00_N034	125461.0	10PCT_10yr	1630.00	111.40	120.89	115.67	120.98	0.000307	2.44	668.49	109.95	0.17
E100-00-00_N034	125461.0	2PCT_50yr	2440.00	111.40	122.53	116.49	122.65	0.000338	2.85	856.81	333.94	0.19
E100-00-00_N034	125461.0	1PCT_100yr	2850.00	111.40	123.09	116.85	123.24	0.000371	3.08	924.99	790.32	0.20
E100-00-00_N034	125405.0		Bridge									
E100-00-00_N034	125344.0	10PCT_10yr	1630.00	111.39	120.81	115.66	120.90	0.000317	2.47	660.85	109.53	0.18
E100-00-00_N034	125344.0	2PCT_50yr	2440.00	111.39	122.44	116.48	122.57	0.000349	2.88	847.13	272.27	0.19
E100-00-00_N034	125344.0	1PCT_100yr	2850.00	111.39	123.00	116.85	123.15	0.000383	3.11	915.18	732.31	0.20
E100-00-00_N034	125237.	10PCT_10yr	1630.00	110.79	120.73	115.98	120.85	0.000584	2.82	577.37	101.14	0.21
E100-00-00_N034	125237.	2PCT_50yr	2440.00	110.79	122.34	116.89	122.51	0.000653	3.25	751.67	215.80	0.22
E100-00-00_N034	125237.	1PCT_100yr	2850.00	110.79	122.90	117.28	123.08	0.000727	3.49	817.77	518.08	0.24
E100-00-00_N034	125059.	10PCT_10yr	1630.00	109.80	120.65	115.33	120.75	0.000472	2.61	625.37	104.17	0.19
E100-00-00_N034	125059.	2PCT_50yr	2440.00	109.80	122.25	116.23	122.39	0.000565	3.03	883.29	354.29	0.21
E100-00-00_N034	125059.	1PCT_100yr	2850.00	109.80	122.79	116.63	122.96	0.000628	3.25	1161.31	878.91	0.22
E100-00-00_N034	124956.0	10PCT_10yr	1630.00	109.22	120.60	115.17	120.69	0.000436	2.54	641.47	103.19	0.18
E100-00-00_N034	124956.0	2PCT_50yr	2440.00	109.22	122.20	116.05	122.34	0.000500	2.99	888.77	376.05	0.20
E100-00-00_N034	124956.0	1PCT_100yr	2850.00	109.22	122.73	116.44	122.90	0.000554	3.24	1150.29	658.04	0.21
E100-00-00_N034	124943.5		Bridge									
E100-00-00_N034	124931.0	10PCT_10yr	1630.00	109.16	120.48	115.11	120.58	0.000448	2.57	634.93	102.79	0.18
E100-00-00_N034	124931.0	2PCT_50yr	2440.00	109.16	122.10	115.98	122.24	0.000508	3.01	873.82	360.28	0.20
E100-00-00_N034	124931.0	1PCT_100yr	2850.00	109.16	122.71	116.37	122.87	0.000545	3.23	1175.80	717.25	0.21
E100-00-00_N034	124809.	10PCT_10yr	1630.00	109.04	120.44		120.52	0.000358	2.31	705.04	114.17	0.16
E100-00-00_N034	124809.	2PCT_50yr	2440.00	109.04	122.05		122.17	0.000443	2.70	999.21	411.10	0.18
E100-00-00_N034	124809.	1PCT_100yr	2850.00	109.04	122.67		122.79	0.000459	2.87	1485.45	1325.23	0.19
E100-00-00_N034	124344.0	10PCT_10yr	1750.00	108.60	120.26		120.35	0.000343	2.40	730.24	108.13	0.16
E100-00-00_N034	124344.0	2PCT_50yr	2610.00	108.60	121.83		121.96	0.000409	2.87	1069.24	538.56	0.18
E100-00-00_N034	124344.0	1PCT_100yr	3050.00	108.60	122.43		122.58	0.000441	3.09	1639.23	1516.03	0.19
E100-00-00_N034	123541.0	10PCT_10yr	1890.00	107.69	120.08		120.14	0.000188	1.97	993.31	202.35	0.12
E100-00-00_N034	123541.0	2PCT_50yr	2820.00	107.69	121.61		121.70	0.000246	2.42	2417.17	1812.54	0.14
E100-00-00_N034	123541.0	1PCT_100yr	3290.00	107.69	122.19		122.29	0.000266	2.62	3827.78	3310.57	0.15
E100-00-00_N034	122719.	10PCT_10yr	1890.00	107.81	119.83		119.93	0.000377	2.53	827.49	434.03	0.17
E100-00-00_N034	122719.	2PCT_50yr	2820.00	107.81	121.28		121.42	0.000460	3.03	2201.67	1787.27	0.19
E100-00-00_N034	122719.	1PCT_100yr	3290.00	107.81	121.84		122.00	0.000485	3.26	3672.26	3761.47	0.20
E100-00-00_N034	122616.0	10PCT_10yr	2039.00	107.83	119.73	113.32	119.88	0.000530	3.02	674.50	175.29	0.20
E100-00-00_N034	122616.0	2PCT_50yr	3037.00	107.83	121.13	114.47	121.35	0.000702	3.73	815.29	2351.66	0.23
E100-00-00_N034	122616.0	1PCT_100yr	3546.00	107.83	121.65	114.97	121.91	0.000771	4.08	872.93	4372.72	0.25
E100-00-00_N034	122558.0		Bridge									
E100-00-00_N034	122498.0	10PCT_10yr	2039.00	107.80	119.55	113.29	119.70	0.000562	3.09	659.78	123.39	0.21
E100-00-00_N034	122498.0	2PCT_50yr	3037.00	107.80	120.84	114.44	121.07	0.000780	3.86	787.36	1081.38	0.25
E100-00-00_N034	122498.0	1PCT_100yr	3546.00	107.80	121.30	114.94	121.58	0.000881	4.25	837.14	2783.29	0.26
E100-00-00_N034	122396.	10PCT_10yr	2039.00	107.58	119.53		119.63	0.000345	2.52	834.39	234.57	0.17
E100-00-00_N034	122396.	2PCT_50yr	3037.00	107.58	120.82		120.97	0.000494	3.13	2012.92	2195.46	0.20
E100-00-00_N034	122396.	1PCT_100yr	3546.00	107.58	121.28		121.46	0.000554	3.40	3609.04	4619.03	0.21
E100-00-00_N034	121745.0	10PCT_10yr	2039.00	106.17	119.39		119.46	0.000189	2.05	1131.83	361.07	0.12
E100-00-00_N034	121745.0	2PCT_50yr	3037.00	106.17	120.62		120.73	0.000268	2.60	2547.45	2585.62	0.15
E100-00-00_N034	121745.0	1PCT_100yr	3546.00	106.17	121.07		121.19	0.000294	2.80	4022.99	4752.55	0.16
E100-00-00_N034	121010.0	10PCT_10yr	3330.00	105.89	119.03		119.20	0.000511	3.33	3158.47	3033.09	0.21
E100-00-00_N034	121010.0	2PCT_50yr	4920.00	105.89	120.14		120.39	0.000682	4.11	7245.79	4376.49	0.24
E100-00-00_N034	121010.0	1PCT_100yr	5740.00	105.89	120.52		120.80	0.000779	4.48	9096.59	5611.77	0.26
E100-00-00_N034	120253.0	10PCT_10yr	3510.00	103.73	118.51		118.73	0.000749	3.87	3088.65	3444.60	0.24
E100-00-00_N034	120253.0	2PCT_50yr	5100.00	103.73	119.66		119.85	0.000678	3.98	8177.12	5386.96	0.24
E100-00-00_N034	120253.0	1PCT_100yr	5920.00	103.73	120.04		120.22	0.000665	4.06	10397.63	6589.44	0.24
E100-00-00_N034	119390.0	10PCT_10yr	3670.00	100.59	117.94		118.15	0.000610	3.64	2359.68	2719.58	0.22
E100-00-00_N034	119390.0	2PCT_50yr	5270.00	100.59	119.00		119.24	0.000723	4.23	6554.18	5753.53	0.24
E100-00-00_N034	119390.0	1PCT_100yr	6090.00	100.59	119.33		119.60	0.000766	4.46	8687.18	6732.53	0.25
E100-00-00_N034	118660.0	10PCT_10yr	3870.00	101.55	117.34		117.60	0.000904	4.19	1888.60	1978.07	0.27
E100-00-00_N034	118660.0	2PCT_50yr	5460.00	101.55	118.46		118.68	0.000803	4.23	5803.73	5562.94	0.26
E100-00-00_N034	118660.0	1PCT_100yr	6290.00	101.55	118.79		119.00	0.000813	4.34	7831.03	6718.71	0.26
E100-00-00_N034	117779.0	10PCT_10yr	4138.00	102.24	116.43		116.74	0.001038	4.50	1086.68	593.27	0.29
E100-00-00_N034	117779.0	2PCT_50yr	5728.00	102.24	117.48		117.83	0.001123	4.96	3074.28	3533.93	0.30

E100-00-00 Mitigated
HEC-RAS Output

HEC-RAS Plan: Mitigated River: E100-00-00 Reach: E100-00-00_N034 (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
E100-00-00_N034	117779.0	1PCT_100yr	6562.00	102.24	117.87		118.17	0.001038	4.88	4767.22	5122.76	0.29
E100-00-00_N034	116759.	10PCT_10yr	4138.00	100.39	115.42		115.71	0.000961	4.41	1095.62	461.19	0.28
E100-00-00_N034	116759.	2PCT_50yr	5728.00	100.39	116.20		116.60	0.001252	5.27	1863.22	1811.02	0.32
E100-00-00_N034	116759.	1PCT_100yr	6562.00	100.39	116.46		116.91	0.001390	5.65	2445.84	2567.77	0.34
E100-00-00_N034	116659.0	10PCT_10yr	4310.00	100.21	115.19	109.84	115.57	0.001436	4.98	975.77	413.90	0.33
E100-00-00_N034	116659.0	2PCT_50yr	5990.00	100.21	115.89	111.13	116.40	0.002067	5.96	1514.21	1337.56	0.40
E100-00-00_N034	116659.0	1PCT_100yr	6820.00	100.21	116.12	111.71	116.69	0.002292	6.38	1887.66	1828.08	0.42
E100-00-00_N034	116605.5		Bridge									
E100-00-00_N034	116549.0	10PCT_10yr	4310.00	99.66	114.65	109.28	115.03	0.001431	4.97	980.63	421.72	0.33
E100-00-00_N034	116549.0	2PCT_50yr	5990.00	99.66	116.02	110.56	116.33	0.001245	4.90	2907.19	2862.98	0.31
E100-00-00_N034	116549.0	1PCT_100yr	6820.00	99.66	116.37	111.13	116.67	0.001199	4.96	4256.86	4878.71	0.31
E100-00-00_N034	116453.	10PCT_10yr	4310.00	99.75	114.55		114.87	0.001225	4.60	1151.90	564.57	0.31
E100-00-00_N034	116453.	2PCT_50yr	5990.00	99.75	115.95		116.19	0.000893	4.42	2925.96	2186.08	0.27
E100-00-00_N034	116453.	1PCT_100yr	6820.00	99.75	116.32		116.54	0.000815	4.35	3786.11	2469.15	0.26
E100-00-00_N034	115807.0	10PCT_10yr	4490.00	100.32	113.62		114.03	0.001354	5.11	877.93	116.31	0.33
E100-00-00_N034	115807.0	2PCT_50yr	6270.00	100.32	115.02		115.49	0.001376	5.65	1951.66	1503.20	0.34
E100-00-00_N034	115807.0	1PCT_100yr	7090.00	100.32	115.36		115.85	0.001429	5.91	2514.89	1804.35	0.35
E100-00-00_N034	114948.0	10PCT_10yr	4640.00	98.89	113.31		113.44	0.000335	2.83	1641.63	244.32	0.17
E100-00-00_N034	114948.0	2PCT_50yr	6510.00	98.89	114.64		114.81	0.000414	3.34	3060.99	2934.27	0.19
E100-00-00_N034	114948.0	1PCT_100yr	7320.00	98.89	114.95		115.14	0.000449	3.55	4092.16	3690.10	0.20
E100-00-00_N034	114246.0	10PCT_10yr	4910.00	99.33	113.29		113.32	0.000066	1.31	4301.46	1503.20	0.08
E100-00-00_N034	114246.0	2PCT_50yr	6920.00	99.33	114.64		114.67	0.000074	1.52	7772.84	4014.10	0.08
E100-00-00_N034	114246.0	1PCT_100yr	7710.00	99.33	114.95		114.98	0.000080	1.61	9212.15	5324.85	0.09
E100-00-00_N034	113821.	10PCT_10yr	4910.00	98.17	112.96		113.23	0.000921	4.21	1663.81	1166.23	0.27
E100-00-00_N034	113821.	2PCT_50yr	6920.00	98.17	114.42		114.60	0.000666	3.89	5260.15	4289.90	0.24
E100-00-00_N034	113821.	1PCT_100yr	7710.00	98.17	114.75		114.91	0.000622	3.86	6861.61	5765.78	0.23
E100-00-00_N034	113668.0	10PCT_10yr	4910.00	97.75	112.71	106.73	113.05	0.001135	4.81	1353.06	643.60	0.30
E100-00-00_N034	113668.0	2PCT_50yr	6920.00	97.75	114.21	108.17	114.47	0.000852	4.64	4461.70	3839.55	0.27
E100-00-00_N034	113668.0	1PCT_100yr	7710.00	97.75	114.58	108.67	114.80	0.000748	4.47	6142.23	5620.75	0.25
E100-00-00_N034	113650.0		Bridge									
E100-00-00_N034	113632.0	10PCT_10yr	4910.00	97.28	112.63	106.25	112.95	0.000999	4.62	1362.73	590.59	0.29
E100-00-00_N034	113632.0	2PCT_50yr	6920.00	97.28	113.89	107.69	114.23	0.000978	5.03	3399.49	3287.71	0.29
E100-00-00_N034	113632.0	1PCT_100yr	7710.00	97.28	114.30	108.19	114.58	0.000856	4.84	4881.42	4038.91	0.27
E100-00-00_N034	113539.	10PCT_10yr	4910.00	97.43	112.58		112.83	0.000741	4.08	1498.86	577.04	0.25
E100-00-00_N034	113539.	2PCT_50yr	6920.00	97.43	113.84		114.12	0.000839	4.56	3111.69	2443.05	0.27
E100-00-00_N034	113539.	1PCT_100yr	7710.00	97.43	114.24		114.51	0.000781	4.53	4335.19	3716.25	0.26
E100-00-00_N034	113080.0	10PCT_10yr	5030.00	98.18	112.28		112.51	0.000630	3.91	1631.60	668.58	0.23
E100-00-00_N034	113080.0	2PCT_50yr	7120.00	98.18	113.47		113.76	0.000742	4.54	3026.26	2261.88	0.26
E100-00-00_N034	113080.0	1PCT_100yr	7890.00	98.18	113.86		114.15	0.000724	4.60	4186.67	3610.61	0.25
E100-00-00_N034	112547.0	10PCT_10yr	5310.00	97.39	111.94		112.17	0.000624	3.88	1815.51	836.69	0.23
E100-00-00_N034	112547.0	2PCT_50yr	7550.00	97.39	113.07		113.35	0.000734	4.51	3437.45	2330.75	0.25
E100-00-00_N034	112547.0	1PCT_100yr	8310.00	97.39	113.49		113.76	0.000704	4.54	4624.19	3347.89	0.25
E100-00-00_N034	111983.	10PCT_10yr	5310.00	96.47	111.60		111.82	0.000614	3.76	1837.00	841.35	0.23
E100-00-00_N034	111983.	2PCT_50yr	7550.00	96.47	112.66		112.93	0.000717	4.39	3442.66	2522.03	0.25
E100-00-00_N034	111983.	1PCT_100yr	8310.00	96.47	113.12		113.36	0.000650	4.31	4843.87	3680.52	0.24
E100-00-00_N034	111861.0	10PCT_10yr	5310.00	96.27	111.44	104.63	111.71	0.000777	4.16	1277.01	925.90	0.25
E100-00-00_N034	111861.0	2PCT_50yr	7550.00	96.27	112.56	106.03	112.84	0.000832	4.53	3422.55	2242.26	0.26
E100-00-00_N034	111861.0	1PCT_100yr	8310.00	96.27	113.03	106.40	113.28	0.000742	4.42	4772.22	3482.76	0.25
E100-00-00_N034	111833.5		Bridge									
E100-00-00_N034	111799.0	10PCT_10yr	5310.00	96.75	111.22	105.08	111.53	0.000971	4.52	1174.28	692.66	0.27
E100-00-00_N034	111799.0	2PCT_50yr	7550.00	96.75	112.52	106.48	112.82	0.000967	4.77	3254.05	2155.05	0.28
E100-00-00_N034	111799.0	1PCT_100yr	8310.00	96.75	113.01	106.87	113.27	0.000863	4.61	4602.96	3406.84	0.26
E100-00-00_N034	111699.	10PCT_10yr	5310.00	96.78	111.20		111.40	0.000607	3.77	1993.34	949.07	0.24
E100-00-00_N034	111699.	2PCT_50yr	7550.00	96.78	112.49		112.70	0.000607	4.03	4256.91	2908.15	0.25
E100-00-00_N034	111699.	1PCT_100yr	8310.00	96.78	112.98		113.17	0.000543	3.91	5957.97	4087.33	0.23
E100-00-00_N034	111409.0	10PCT_10yr	5555.00	96.85	110.97		111.22	0.000681	4.07	1886.76	971.02	0.24
E100-00-00_N034	111409.0	2PCT_50yr	7942.00	96.85	112.20		112.51	0.000767	4.68	3832.65	2352.13	0.26
E100-00-00_N034	111409.0	1PCT_100yr	8668.00	96.85	112.75		113.01	0.000665	4.52	5337.65	3335.71	0.24
E100-00-00_N034	110813.0	10PCT_10yr	5555.00	97.20	110.60		110.82	0.000651	3.94	2431.01	1552.79	0.24
E100-00-00_N034	110813.0	2PCT_50yr	7942.00	97.20	111.90		112.10	0.000601	4.08	5202.04	2979.10	0.23
E100-00-00_N034	110813.0	1PCT_100yr	8668.00	97.20	112.52		112.67	0.000483	3.81	7471.29	4516.94	0.21
E100-00-00_N034	110549.	10PCT_10yr	5555.00	96.58	110.40		110.64	0.000758	4.06	1915.27	967.12	0.25

E100-00-00 Mitigated
HEC-RAS Output

HEC-RAS Plan: Mitigated River: E100-00-00 Reach: E100-00-00_N034 (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
E100-00-00_N034	110549.	2PCT_50yr	7942.00	96.58	111.71		111.94	0.000694	4.29	4110.43	2493.24	0.25
E100-00-00_N034	110549.	1PCT_100yr	8668.00	96.58	112.39		112.56	0.000504	3.84	6241.24	3708.68	0.21
E100-00-00_N034	110454.0	10PCT_10yr	5760.00	96.36	110.28	103.97	110.56	0.000775	4.27	1360.90	870.85	0.26
E100-00-00_N034	110454.0	2PCT_50yr	8240.00	96.36	111.63	105.22	111.88	0.000667	4.36	4051.21	2377.26	0.24
E100-00-00_N034	110454.0	1PCT_100yr	9030.00	96.36	112.34	105.58	112.51	0.000486	3.89	6040.14	3422.85	0.21
E100-00-00_N034	110399.0		Bridge									
E100-00-00_N034	110346.0	10PCT_10yr	5760.00	95.88	110.05	103.49	110.32	0.000703	4.15	1399.16	773.09	0.24
E100-00-00_N034	110346.0	2PCT_50yr	8240.00	95.88	111.64	104.73	111.87	0.000579	4.19	4165.11	2392.34	0.23
E100-00-00_N034	110346.0	1PCT_100yr	9030.00	95.88	112.01	105.09	112.22	0.000551	4.19	5100.25	2759.16	0.22
E100-00-00_N034	110243.	10PCT_10yr	5760.00	95.83	109.98		110.25	0.000934	4.22	1765.33	821.04	0.27
E100-00-00_N034	110243.	2PCT_50yr	8240.00	95.83	111.54		111.80	0.000790	4.38	3993.37	2250.36	0.26
E100-00-00_N034	110243.	1PCT_100yr	9030.00	95.83	111.92		112.15	0.000735	4.35	4923.51	2751.89	0.25
E100-00-00_N034	109208.0	10PCT_10yr	6050.00	95.31	108.55		109.01	0.001511	5.45	1134.87	259.36	0.35
E100-00-00_N034	109208.0	2PCT_50yr	8640.00	95.31	110.09		110.66	0.001568	6.20	2123.81	1346.78	0.36
E100-00-00_N034	109208.0	1PCT_100yr	9530.00	95.31	110.48		111.07	0.001573	6.38	2720.84	1774.08	0.37
E100-00-00_N034	108454	10PCT_10yr	6050.00	94.03	107.92		108.14	0.000789	4.05	2406.07	649.95	0.25
E100-00-00_N034	108454	2PCT_50yr	8640.00	94.03	109.59		109.80	0.000690	4.22	3845.23	1419.25	0.24
E100-00-00_N034	108454	1PCT_100yr	9530.00	94.03	109.98		110.20	0.000698	4.36	4440.78	1689.71	0.25
E100-00-00_N034	108354	10PCT_10yr	6050.00	93.86	107.67	102.75	108.03	0.001126	4.81	1270.38	257.75	0.30
E100-00-00_N034	108354	2PCT_50yr	8640.00	93.86	109.20	103.92	109.69	0.001261	5.62	1992.82	775.30	0.33
E100-00-00_N034	108354	1PCT_100yr	9530.00	93.86	109.54	104.29	110.07	0.001345	5.93	2304.03	1137.42	0.34
E100-00-00_N034	108339		Bridge									
E100-00-00_N034	108323	10PCT_10yr	6050.00	93.81	107.50	102.70	107.87	0.001173	4.87	1254.92	232.11	0.31
E100-00-00_N034	108323	2PCT_50yr	8640.00	93.81	109.06	103.84	109.56	0.001311	5.70	1936.03	754.33	0.34
E100-00-00_N034	108323	1PCT_100yr	9530.00	93.81	109.50	104.20	110.04	0.001359	5.96	2338.45	1108.55	0.34
E100-00-00_N034	108221	10PCT_10yr	6050.00	93.64	107.40		107.75	0.001110	4.76	1387.96	259.43	0.30
E100-00-00_N034	108221	2PCT_50yr	8640.00	93.64	108.96		109.42	0.001220	5.53	2034.97	687.15	0.32
E100-00-00_N034	108221	1PCT_100yr	9530.00	93.64	109.40		109.89	0.001248	5.74	2441.02	1135.90	0.33
E100-00-00_N034	107598.0	10PCT_10yr	6200.00	92.57	106.88		107.15	0.000779	4.18	1541.24	264.40	0.25
E100-00-00_N034	107598.0	2PCT_50yr	8870.00	92.57	108.39		108.75	0.000897	4.91	2268.95	1067.89	0.28
E100-00-00_N034	107598.0	1PCT_100yr	9810.00	92.57	108.82		109.20	0.000915	5.08	2881.94	1744.16	0.28
E100-00-00_N034	106727.0	10PCT_10yr	6407.00	90.24	106.34		106.56	0.000561	3.77	1765.72	266.88	0.22
E100-00-00_N034	106727.0	2PCT_50yr	9155.00	90.24	107.71		108.03	0.000732	4.60	2307.63	723.61	0.25
E100-00-00_N034	106727.0	1PCT_100yr	10165.00	90.24	108.09		108.45	0.000797	4.89	2667.15	1216.90	0.27
E100-00-00_N034	105640.0	10PCT_10yr	6407.00	89.76	105.72		105.96	0.000551	3.97	2032.77	1081.95	0.22
E100-00-00_N034	105640.0	2PCT_50yr	9155.00	89.76	107.05		107.32	0.000590	4.46	4344.25	2531.36	0.23
E100-00-00_N034	105640.0	1PCT_100yr	10165.00	89.76	107.41		107.68	0.000604	4.61	5383.22	3278.80	0.24
E100-00-00_N034	104527.0	10PCT_10yr	6985.00	87.96	104.83		105.20	0.000804	4.99	1743.37	552.69	0.27
E100-00-00_N034	104527.0	2PCT_50yr	10426.00	87.96	105.90		106.41	0.001075	6.14	3330.48	2384.72	0.31
E100-00-00_N034	104527.0	1PCT_100yr	11927.00	87.96	106.20		106.73	0.001158	6.48	4115.93	2917.47	0.33
E100-00-00_N034	103364.0	10PCT_10yr	6985.00	86.63	104.29	96.69	104.46	0.000460	3.88	4726.26	3168.69	0.20
E100-00-00_N034	103364.0	2PCT_50yr	10426.00	86.63	105.48	98.51	105.60	0.000382	3.78	9590.56	4881.85	0.19
E100-00-00_N034	103364.0	1PCT_100yr	11927.00	86.63	105.78	99.21	105.90	0.000379	3.82	11125.81	5144.64	0.19
E100-00-00_N034	102317.0	10PCT_10yr	6985.00	85.24	103.76	96.46	103.97	0.000542	4.16	3762.68	2311.67	0.22
E100-00-00_N034	102317.0	2PCT_50yr	10426.00	85.24	105.05	98.21	105.22	0.000480	4.22	7969.95	4896.20	0.21
E100-00-00_N034	102317.0	1PCT_100yr	11927.00	85.24	105.37	98.86	105.54	0.000490	4.33	9316.57	5235.82	0.21
E100-00-00_N034	101430.	10PCT_10yr	6985.00	84.71	103.28	95.55	103.50	0.000544	4.00	3383.36	1948.86	0.22
E100-00-00_N034	101430.	2PCT_50yr	10426.00	84.71	104.67	97.54	104.84	0.000475	4.04	7245.41	5067.19	0.21
E100-00-00_N034	101430.	1PCT_100yr	11927.00	84.71	104.97	98.29	105.15	0.000513	4.27	8368.72	5717.15	0.22
E100-00-00_N034	101325.0	10PCT_10yr	6985.00	84.65	103.26	95.52	103.41	0.000428	3.64	4609.69	2402.01	0.20
E100-00-00_N034	101325.0	2PCT_50yr	10426.00	84.65	104.65	97.40	104.77	0.000380	3.72	9204.51	6310.90	0.19
E100-00-00_N034	101325.0	1PCT_100yr	11927.00	84.65	104.95	98.13	105.07	0.000387	3.82	10470.09	6585.84	0.19
E100-00-00_N034	101296.0		Bridge									
E100-00-00_N034	101274.0	10PCT_10yr	6985.00	84.67	103.13	95.54	103.30	0.000470	3.78	4314.46	2156.33	0.20
E100-00-00_N034	101274.0	2PCT_50yr	10426.00	84.67	104.50	97.40	104.65	0.000438	3.96	8509.56	6116.81	0.20
E100-00-00_N034	101274.0	1PCT_100yr	11927.00	84.67	104.81	98.12	104.95	0.000442	4.04	9795.03	6438.91	0.20
E100-00-00_N034	101172.	10PCT_10yr	6985.00	84.38	103.11	95.34	103.23	0.000411	3.29	4848.41	2865.56	0.19
E100-00-00_N034	101172.	2PCT_50yr	10426.00	84.38	104.50	97.36	104.57	0.000277	2.94	10738.80	6532.11	0.16
E100-00-00_N034	101172.	1PCT_100yr	11927.00	84.38	104.81	98.13	104.87	0.000259	2.90	12826.14	6848.15	0.16
E100-00-00_N034	100723.0	10PCT_10yr	8211.00	83.09	102.50	95.56	102.85	0.000905	5.19	3205.75	1502.06	0.28
E100-00-00_N034	100723.0	2PCT_50yr	11424.00	83.09	104.03	97.38	104.27	0.000661	4.85	6008.61	3619.84	0.25
E100-00-00_N034	100723.0	1PCT_100yr	12614.00	83.09	104.39	97.97	104.59	0.000598	4.71	7019.81	4073.89	0.23

E100-00-00 Mitigated
HEC-RAS Output

HEC-RAS Plan: Mitigated River: E100-00-00 Reach: E100-00-00_N034 (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
E100-00-00_N034	99963.0	10PCT_10yr	8211.00	83.11	101.98	94.25	102.26	0.000634	4.67	3394.68	1201.92	0.24
E100-00-00_N034	99963.0	2PCT_50yr	11424.00	83.11	103.56	95.94	103.81	0.000567	4.80	5623.49	2983.01	0.23
E100-00-00_N034	99963.0	1PCT_100yr	12614.00	83.11	103.88	96.47	104.14	0.000600	5.01	6130.71	3348.34	0.24
E100-00-00_N034	99304.	10PCT_10yr	8211.00	83.36	101.56	93.54	101.83	0.000663	4.39	3333.80	1482.35	0.24
E100-00-00_N034	99304.	2PCT_50yr	11424.00	83.36	103.26	95.25	103.45	0.000490	4.18	7263.96	3248.25	0.21
E100-00-00_N034	99304.	1PCT_100yr	12614.00	83.36	103.57	95.88	103.76	0.000494	4.27	8241.65	3437.42	0.22
E100-00-00_N034	99202.0	10PCT_10yr	8211.00	83.40	101.50	93.45	101.76	0.000603	4.45	3774.65	1681.49	0.23
E100-00-00_N034	99202.0	2PCT_50yr	11424.00	83.40	103.21	95.12	103.40	0.000466	4.29	7706.11	3253.76	0.21
E100-00-00_N034	99202.0	1PCT_100yr	12614.00	83.40	103.53	95.67	103.71	0.000461	4.34	8697.49	3417.88	0.21
E100-00-00_N034	99176.0		Bridge									
E100-00-00_N034	99154.0	10PCT_10yr	8211.00	82.29	101.39	92.34	101.64	0.000503	4.27	3737.02	1626.25	0.21
E100-00-00_N034	99154.0	2PCT_50yr	11424.00	82.29	103.00	94.00	103.22	0.000449	4.38	7196.59	3173.90	0.21
E100-00-00_N034	99154.0	1PCT_100yr	12614.00	82.29	103.33	94.55	103.54	0.000445	4.42	8208.54	3281.79	0.21
E100-00-00_N034	99044.	10PCT_10yr	8211.00	82.07	101.23	94.48	101.54	0.001049	4.95	3213.75	1417.31	0.30
E100-00-00_N034	99044.	2PCT_50yr	11424.00	82.07	102.95	96.36	103.15	0.000684	4.51	6909.48	3070.89	0.25
E100-00-00_N034	99044.	1PCT_100yr	12614.00	82.07	103.28	96.99	103.47	0.000645	4.47	7894.13	3193.94	0.24
E100-00-00_N034	98564.0	10PCT_10yr	8211.00	81.12	100.93	93.20	101.16	0.000581	4.51	4776.59	2262.39	0.23
E100-00-00_N034	98564.0	2PCT_50yr	11424.00	81.12	102.80	95.08	102.91	0.000323	3.70	9995.72	3460.29	0.17
E100-00-00_N034	98564.0	1PCT_100yr	12614.00	81.12	103.13	95.66	103.24	0.000318	3.73	11101.46	3707.01	0.17
E100-00-00_N034	97673.	10PCT_10yr	8211.00	80.03	100.30	92.90	100.56	0.000841	4.62	4093.46	2217.70	0.27
E100-00-00_N034	97673.	2PCT_50yr	11424.00	80.03	102.56	94.92	102.64	0.000309	3.23	10394.10	5884.18	0.17
E100-00-00_N034	97673.	1PCT_100yr	12614.00	80.03	102.89	95.59	102.97	0.000310	3.30	11483.14	6369.04	0.17
E100-00-00_N034	97571.0	10PCT_10yr	8211.00	79.91	100.23	92.35	100.47	0.000738	4.63	4549.98	2423.46	0.25
E100-00-00_N034	97571.0	2PCT_50yr	11424.00	79.91	102.53	94.57	102.60	0.000270	3.19	10936.56	5653.69	0.16
E100-00-00_N034	97571.0	1PCT_100yr	12614.00	79.91	102.86	95.26	102.93	0.000266	3.22	11924.36	6103.48	0.16
E100-00-00_N034	97558.0		Bridge									
E100-00-00_N034	97546.0	10PCT_10yr	8211.00	80.13	100.03	92.53	100.33	0.000873	5.00	4097.46	2211.00	0.27
E100-00-00_N034	97546.0	2PCT_50yr	11424.00	80.13	102.47	94.77	102.54	0.000289	3.25	10725.26	5525.54	0.16
E100-00-00_N034	97546.0	1PCT_100yr	12614.00	80.13	102.80	95.46	102.87	0.000283	3.27	11719.13	6072.53	0.16
E100-00-00_N034	97445.	10PCT_10yr	8211.00	79.21	99.99	91.50	100.21	0.000684	4.18	4191.65	2568.35	0.24
E100-00-00_N034	97445.	2PCT_50yr	11424.00	79.21	102.45	93.38	102.52	0.000239	2.89	10572.08	5748.10	0.15
E100-00-00_N034	97445.	1PCT_100yr	12614.00	79.21	102.78	94.02	102.85	0.000239	2.95	11485.02	5923.45	0.15
E100-00-00_N034	97054.0	10PCT_10yr	8211.00	75.66	99.65	88.48	99.97	0.000541	4.64	2880.97	1579.64	0.22
E100-00-00_N034	97054.0	2PCT_50yr	11424.00	75.66	102.25	90.57	102.40	0.000301	3.89	7642.94	6033.99	0.17
E100-00-00_N034	97054.0	1PCT_100yr	12614.00	75.66	102.57	91.25	102.73	0.000311	4.01	8329.89	6606.59	0.17
E100-00-00_N034	96688.	10PCT_10yr	8211.00	74.63	99.54	86.60	99.77	0.000391	3.91	2101.56	1325.13	0.20
E100-00-00_N034	96688.	2PCT_50yr	11424.00	74.63	101.98	88.52	102.26	0.000412	4.29	2807.97	3925.95	0.23
E100-00-00_N034	96688.	1PCT_100yr	12614.00	74.63	102.25	89.10	102.58	0.000468	4.60	2914.84	3982.63	0.24
E100-00-00_N034	96586.0	10PCT_10yr	8211.00	74.34	99.51	85.93	99.74	0.000409	3.84	2140.63	1387.05	0.19
E100-00-00_N034	96586.0	2PCT_50yr	11424.00	74.34	101.91	87.83	102.21	0.000483	4.42	2582.88	3803.29	0.21
E100-00-00_N034	96586.0	1PCT_100yr	12614.00	74.34	102.16	88.44	102.52	0.000554	4.79	2631.02	3860.50	0.23
E100-00-00_N034	96552.5		Bridge									
E100-00-00_N034	96514.0	10PCT_10yr	8211.00	74.57	99.44	86.16	99.68	0.000432	3.93	2089.38	1297.40	0.20
E100-00-00_N034	96514.0	2PCT_50yr	11424.00	74.57	101.65	88.06	101.98	0.000546	4.59	2489.90	3575.09	0.22
E100-00-00_N034	96514.0	1PCT_100yr	12614.00	74.57	101.83	88.67	102.22	0.000635	5.00	2525.17	3786.74	0.24
E100-00-00_N034	96459.0	10PCT_10yr	8211.00	75.54	99.40	87.05	99.65	0.000471	4.07	2015.18	355.29	0.21
E100-00-00_N034	96459.0	2PCT_50yr	11424.00	75.54	101.59	89.26	101.94	0.000558	4.78	2392.13	645.78	0.23
E100-00-00_N034	96459.0	1PCT_100yr	12614.00	75.54	101.75	89.95	102.18	0.000656	5.21	2421.99	679.13	0.25
E100-00-00_N034	96380.5		Bridge									
E100-00-00_N034	96298.0	10PCT_10yr	8211.00	75.98	99.25	87.49	99.53	0.000538	4.28	1918.45	180.54	0.22
E100-00-00_N034	96298.0	2PCT_50yr	11424.00	75.98	101.38	89.70	101.77	0.000642	5.01	2278.84	472.65	0.24
E100-00-00_N034	96298.0	1PCT_100yr	12614.00	75.98	101.50	90.39	101.97	0.000763	5.49	2299.69	520.29	0.27
E100-00-00_N034	96244.0	10PCT_10yr	8211.00	76.20	99.16	89.26	99.49	0.000676	4.58	1793.65	165.54	0.25
E100-00-00_N034	96244.0	2PCT_50yr	11424.00	76.20	101.29	91.17	101.72	0.000795	5.28	2162.24	260.78	0.27
E100-00-00_N034	96244.0	1PCT_100yr	12614.00	76.20	101.39	91.81	101.91	0.000948	5.78	2180.52	334.29	0.30
E100-00-00_N034	96210.5		Bridge									
E100-00-00_N034	96176.0	10PCT_10yr	8211.00	75.64	98.52	88.69	98.85	0.000690	4.61	1780.04	164.91	0.25
E100-00-00_N034	96176.0	2PCT_50yr	11424.00	75.64	99.93	90.61	100.42	0.000954	5.66	2019.25	175.78	0.29
E100-00-00_N034	96176.0	1PCT_100yr	12614.00	75.64	100.29	91.24	100.86	0.001070	6.05	2083.27	178.56	0.31
E100-00-00_N034	96077.	10PCT_10yr	8211.00	75.38	98.48	88.15	98.77	0.000621	4.31	2003.99	1035.01	0.24
E100-00-00_N034	96077.	2PCT_50yr	11424.00	75.38	99.90	89.90	100.28	0.000733	5.07	3087.56	2023.73	0.26
E100-00-00_N034	96077.	1PCT_100yr	12614.00	75.38	100.27	90.48	100.69	0.000781	5.34	3424.76	2215.01	0.27

E100-00-00 Mitigated
HEC-RAS Output

HEC-RAS Plan: Mitigated River: E100-00-00 Reach: E100-00-00_N034 (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
E100-00-00_N034	95629.0	10PCT_10yr	8211.00	74.21	98.32	85.92	98.54	0.000336	3.73	2439.27	1197.94	0.18
E100-00-00_N034	95629.0	2PCT_50yr	11424.00	74.21	99.69	87.65	100.00	0.000451	4.53	3855.67	3951.10	0.21
E100-00-00_N034	95629.0	1PCT_100yr	12614.00	74.21	100.05	88.17	100.39	0.000494	4.80	4386.09	4979.55	0.22
E100-00-00_N034	95013.0	10PCT_10yr	8211.00	76.53	98.15	85.51	98.34	0.000290	3.52	3032.79	1804.09	0.17
E100-00-00_N034	95013.0	2PCT_50yr	11424.00	76.53	99.49	87.16	99.74	0.000362	4.18	4647.19	4478.62	0.19
E100-00-00_N034	95013.0	1PCT_100yr	12614.00	76.53	99.83	87.70	100.10	0.000395	4.43	5064.62	5379.09	0.20
E100-00-00_N034	94401.0	10PCT_10yr	8211.00	72.20	97.71	86.53	98.06	0.000716	4.81	2629.03	2295.75	0.25
E100-00-00_N034	94401.0	2PCT_50yr	11424.00	72.20	99.06	90.23	99.43	0.000749	5.29	4659.05	4088.72	0.26
E100-00-00_N034	94401.0	1PCT_100yr	12614.00	72.20	99.39	90.78	99.77	0.000775	5.47	5229.39	4254.85	0.26
E100-00-00_N034	93630.	10PCT_10yr	8211.00	76.23	97.49	86.73	97.63	0.000329	3.35	5340.23	1900.83	0.17
E100-00-00_N034	93630.	2PCT_50yr	11424.00	76.23	98.84	88.48	98.99	0.000329	3.61	7674.97	3481.47	0.18
E100-00-00_N034	93630.	1PCT_100yr	12614.00	76.23	99.22	89.08	99.34	0.000296	3.49	10524.53	3796.72	0.17
E100-00-00_N034	93534.0	10PCT_10yr	9456.00	76.73	97.26	87.20	97.55	0.000540	4.47	3774.64	1975.45	0.22
E100-00-00_N034	93534.0	2PCT_50yr	13117.00	76.73	98.60	88.98	98.90	0.000560	4.87	7442.75	3348.52	0.23
E100-00-00_N034	93534.0	1PCT_100yr	14441.00	76.73	98.94	89.57	99.24	0.000575	5.01	8607.97	3492.24	0.23
E100-00-00_N034	93477.0		Bridge									
E100-00-00_N034	93419.0	10PCT_10yr	9456.00	76.54	97.08	87.00	97.36	0.000540	4.47	3657.64	1790.06	0.22
E100-00-00_N034	93419.0	2PCT_50yr	13117.00	76.54	98.30	88.78	98.62	0.000597	5.00	6777.21	3327.01	0.24
E100-00-00_N034	93419.0	1PCT_100yr	14441.00	76.54	98.60	89.36	98.93	0.000624	5.19	7813.69	3508.44	0.24
E100-00-00_N034	93320.	10PCT_10yr	9456.00	76.22	96.96	87.44	97.29	0.000796	4.83	3285.60	1617.93	0.26
E100-00-00_N034	93320.	2PCT_50yr	13117.00	76.22	98.19	89.41	98.54	0.000832	5.32	6038.83	3464.94	0.28
E100-00-00_N034	93320.	1PCT_100yr	14441.00	76.22	98.48	90.10	98.85	0.000869	5.53	6903.26	3669.09	0.28
E100-00-00_N034	92851.0	10PCT_10yr	9456.00	74.72	96.66	86.89	96.97	0.000641	4.67	3307.32	1343.89	0.24
E100-00-00_N034	92851.0	2PCT_50yr	13117.00	74.72	97.81	89.59	98.19	0.000772	5.40	4644.33	2014.37	0.27
E100-00-00_N034	92851.0	1PCT_100yr	14441.00	74.72	98.06	90.14	98.48	0.000840	5.71	4984.64	2226.58	0.28
E100-00-00_N034	92147.	10PCT_10yr	9456.00	73.28	95.84		95.96	0.006349	1.50	4320.72	1146.69	0.08
E100-00-00_N034	92147.	2PCT_50yr	13117.00	73.28	96.90		97.04	0.006016	1.55	5902.75	2010.74	0.08
E100-00-00_N034	92147.	1PCT_100yr	14441.00	73.28	97.07		97.23	0.006576	1.63	6275.64	2326.50	0.08
E100-00-00_N034	91972.0	10PCT_10yr	9456.00	72.92	95.65	86.42	95.79	0.000392	3.54	6376.26	3426.06	0.19
E100-00-00_N034	91972.0	2PCT_50yr	13117.00	72.92	96.77	88.29	96.88	0.000332	3.47	10415.10	3730.95	0.18
E100-00-00_N034	91972.0	1PCT_100yr	14441.00	72.92	96.93	88.88	97.05	0.000359	3.65	11024.16	3765.17	0.18
E100-00-00_N034	91947.5		Bridge									
E100-00-00_N034	91923.0	10PCT_10yr	9456.00	73.59	95.49	87.06	95.77	0.000712	4.53	3816.86	2476.81	0.25
E100-00-00_N034	91923.0	2PCT_50yr	13117.00	73.59	96.29	88.96	96.58	0.000774	4.97	6257.32	3405.74	0.26
E100-00-00_N034	91923.0	1PCT_100yr	14441.00	73.59	96.53	89.51	96.82	0.000784	5.07	7100.20	3522.58	0.27
E100-00-00_N034	91823.	10PCT_10yr	9456.00	73.84	95.48		95.67	0.000526	4.10	6517.94	3773.64	0.23
E100-00-00_N034	91823.	2PCT_50yr	13117.00	73.84	96.28		96.45	0.000518	4.21	9625.53	3903.17	0.23
E100-00-00_N034	91823.	1PCT_100yr	14441.00	73.84	96.53		96.69	0.000517	4.25	10583.32	3920.01	0.23
E100-00-00_N034	91339.0	10PCT_10yr	9456.00	75.07	95.28		95.45	0.000374	3.98	7500.49	4222.08	0.19
E100-00-00_N034	91339.0	2PCT_50yr	13117.00	75.07	96.08		96.23	0.000383	4.18	10917.02	4313.26	0.19
E100-00-00_N034	91339.0	1PCT_100yr	14441.00	75.07	96.32		96.47	0.000386	4.24	11962.41	4333.86	0.19
E100-00-00_N034	90490.0	10PCT_10yr	9497.00	71.38	94.75		95.03	0.000632	4.85	5146.62	3160.10	0.24
E100-00-00_N034	90490.0	2PCT_50yr	12776.00	71.38	95.59		95.84	0.000604	4.94	7902.05	3372.66	0.23
E100-00-00_N034	90490.0	1PCT_100yr	13994.00	71.38	95.84		96.08	0.000603	5.00	8748.00	3435.65	0.24
E100-00-00_N034	88972.0	10PCT_10yr	9497.00	72.48	93.72		94.03	0.000716	4.96	4722.45	2789.28	0.25
E100-00-00_N034	88972.0	2PCT_50yr	12776.00	72.48	94.54		94.84	0.000745	5.24	7257.84	3374.87	0.26
E100-00-00_N034	88972.0	1PCT_100yr	13994.00	72.48	94.77		95.06	0.000767	5.36	8045.41	3512.99	0.27
E100-00-00_N034	87610.	10PCT_10yr	9497.00	74.16	92.76		92.98	0.000755	4.59	5124.21	2210.03	0.26
E100-00-00_N034	87610.	2PCT_50yr	12776.00	74.16	93.41		93.68	0.000921	5.29	6759.70	2940.29	0.29
E100-00-00_N034	87610.	1PCT_100yr	13994.00	74.16	93.58		93.87	0.000976	5.51	7298.84	3132.82	0.29
E100-00-00_N034	87508.0	10PCT_10yr	9497.00	74.29	92.57	85.33	92.87	0.000820	5.02	4511.54	2647.48	0.27
E100-00-00_N034	87508.0	2PCT_50yr	12776.00	74.29	93.30	86.99	93.59	0.000835	5.30	6692.95	3212.09	0.27
E100-00-00_N034	87508.0	1PCT_100yr	13994.00	74.29	93.49	87.56	93.78	0.000864	5.45	7293.31	3243.45	0.28
E100-00-00_N034	87449.0		Bridge									
E100-00-00_N034	87390.0	10PCT_10yr	9497.00	74.03	91.88	85.05	92.39	0.001246	6.08	2878.24	2169.98	0.33
E100-00-00_N034	87390.0	2PCT_50yr	12776.00	74.03	92.43	86.71	93.04	0.001549	6.96	4184.35	2520.62	0.37
E100-00-00_N034	87390.0	1PCT_100yr	13994.00	74.03	92.53	87.28	93.21	0.001717	7.37	4455.35	2619.59	0.39
E100-00-00_N034	87171.	10PCT_10yr	9497.00	73.93	91.19		91.99	0.001900	7.41	2233.01	2157.94	0.42
E100-00-00_N034	87171.	2PCT_50yr	12776.00	73.93	91.90		92.65	0.002018	7.82	3971.65	2615.24	0.43
E100-00-00_N034	87171.	1PCT_100yr	13994.00	73.93	92.17		92.84	0.001922	7.69	4689.87	2668.32	0.42
E100-00-00_N034	86621.0	10PCT_10yr	9497.00	73.68	91.52		91.55	0.000218	2.77	13403.50	3907.12	0.14
E100-00-00_N034	86621.0	2PCT_50yr	12776.00	73.68	92.15		92.19	0.000273	3.21	15918.67	4123.10	0.16

E100-00-00 Mitigated
HEC-RAS Output

HEC-RAS Plan: Mitigated River: E100-00-00 Reach: E100-00-00_N034 (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
E100-00-00_N034	86621.0	1PCT_100yr	13994.00	73.68	92.35		92.39	0.000292	3.35	16740.08	4133.72	0.16
E100-00-00_N034	85749.0	10PCT_10yr	9497.00	71.06	90.79		91.11	0.001230	5.56	4657.04	2838.63	0.32
E100-00-00_N034	85749.0	2PCT_50yr	12776.00	71.06	91.37		91.67	0.001305	5.89	6304.14	2871.82	0.33
E100-00-00_N034	85749.0	1PCT_100yr	13994.00	71.06	91.54		91.85	0.001341	6.03	6807.39	2875.34	0.34
E100-00-00_N034	84932.0	10PCT_10yr	9497.00	72.06	90.37	84.21	90.48	0.000462	3.60	9836.75	5194.33	0.20
E100-00-00_N034	84932.0	2PCT_50yr	12776.00	72.06	90.89	85.88	91.00	0.000500	3.88	12640.98	5372.58	0.21
E100-00-00_N034	84932.0	1PCT_100yr	13994.00	72.06	91.04	86.42	91.16	0.000523	4.01	13449.39	5429.85	0.22
E100-00-00_N034	84716.0	10PCT_10yr	9497.00	71.77	90.06	83.91	90.31	0.000905	4.91	6699.33	4489.46	0.28
E100-00-00_N034	84716.0	2PCT_50yr	12776.00	71.77	90.57	85.94	90.81	0.000990	5.22	9263.35	5267.27	0.29
E100-00-00_N034	84716.0	1PCT_100yr	13994.00	71.77	90.73	89.71	90.96	0.001008	5.30	10083.40	5298.44	0.29
E100-00-00_N034	84703.5		Bridge									
E100-00-00_N034	84692.0	10PCT_10yr	9497.00	71.62	89.92	83.72	90.17	0.000893	4.88	6760.79	4507.08	0.27
E100-00-00_N034	84692.0	2PCT_50yr	12776.00	71.62	90.40	85.77	90.65	0.001014	5.28	9143.93	5262.74	0.29
E100-00-00_N034	84692.0	1PCT_100yr	13994.00	71.62	90.56	89.54	90.80	0.001028	5.35	9982.45	5294.62	0.30
E100-00-00_N034	84548.0	10PCT_10yr	9497.00	71.51	89.75	85.60	90.01	0.001166	5.38	6958.51	5109.09	0.31
E100-00-00_N034	84548.0	2PCT_50yr	12776.00	71.51	90.26	87.49	90.47	0.001136	5.44	9631.45	5362.99	0.31
E100-00-00_N034	84548.0	1PCT_100yr	13994.00	71.51	90.42	88.11	90.62	0.001124	5.46	10495.90	5370.66	0.31
E100-00-00_N034	83815.0	10PCT_10yr	9497.00	71.88	89.38	83.85	89.47	0.000433	3.38	10565.42	6324.45	0.19
E100-00-00_N034	83815.0	2PCT_50yr	12776.00	71.88	89.86	85.50	89.94	0.000447	3.50	13787.70	6874.09	0.20
E100-00-00_N034	83815.0	1PCT_100yr	13994.00	71.88	90.01	86.04	90.09	0.000454	3.56	14806.00	6939.19	0.20
E100-00-00_N034	82633.0	10PCT_10yr	10002.00	69.63	88.46	81.88	88.81	0.001061	5.53	5898.49	6318.34	0.30
E100-00-00_N034	82633.0	2PCT_50yr	14088.00	69.63	89.10	84.15	89.34	0.000959	5.35	10224.23	7054.22	0.29
E100-00-00_N034	82633.0	1PCT_100yr	15702.00	69.63	89.28	84.96	89.50	0.000945	5.34	11512.71	7086.48	0.29
E100-00-00_N034	81638.0	10PCT_10yr	10002.00	69.86	87.52	81.46	87.80	0.000990	5.07	6010.98	5145.10	0.29
E100-00-00_N034	81638.0	2PCT_50yr	14088.00	69.86	88.28	83.57	88.47	0.000837	4.84	10709.51	6946.44	0.27
E100-00-00_N034	81638.0	1PCT_100yr	15702.00	69.86	88.48	86.59	88.66	0.000821	4.85	12186.69	7586.44	0.27
E100-00-00_N034	80800.0	10PCT_10yr	10002.00	67.77	86.48	80.83	86.91	0.001239	5.87	4128.58	3157.93	0.33
E100-00-00_N034	80800.0	2PCT_50yr	14088.00	67.77	87.17	82.64	87.62	0.001408	6.49	6829.60	5742.28	0.35
E100-00-00_N034	80800.0	1PCT_100yr	15702.00	67.77	87.42	83.30	87.84	0.001376	6.51	8126.95	6054.03	0.35
E100-00-00_N034	79748.0	10PCT_10yr	10002.00	68.10	85.53	80.24	85.79	0.000901	4.92	6160.74	4691.30	0.28
E100-00-00_N034	79748.0	2PCT_50yr	14088.00	68.10	86.57	82.03	86.69	0.000556	4.08	11490.16	5415.69	0.22
E100-00-00_N034	79748.0	1PCT_100yr	15702.00	68.10	86.84	82.72	86.95	0.000522	4.01	12993.33	5518.79	0.22
E100-00-00_N034	78804.0	10PCT_10yr	10002.00	66.31	84.93	78.14	85.12	0.000645	4.38	7310.30	4452.18	0.24
E100-00-00_N034	78804.0	2PCT_50yr	14088.00	66.31	86.20	80.24	86.29	0.000414	3.75	13855.47	6457.13	0.19
E100-00-00_N034	78804.0	1PCT_100yr	15702.00	66.31	86.48	80.93	86.57	0.000399	3.74	15522.17	6693.79	0.19
E100-00-00_N034	77625.0	10PCT_10yr	10002.00	62.52	83.52	77.77	84.05	0.001530	6.45	3772.63	2831.97	0.36
E100-00-00_N034	77625.0	2PCT_50yr	14088.00	62.52	85.75	79.88	85.86	0.000449	3.92	13247.61	7177.77	0.20
E100-00-00_N034	77625.0	1PCT_100yr	15702.00	62.52	86.11	83.71	86.19	0.000370	3.63	17430.74	7455.35	0.18
E100-00-00_N034	77447.0	10PCT_10yr	10002.00	65.33	83.45	76.02	83.99	0.000162	6.09	4203.72	2723.75	0.32
E100-00-00_N034	77447.0	2PCT_50yr	14088.00	65.33	85.19	78.05	85.65	0.000140	6.17	10699.57	5260.76	0.31
E100-00-00_N034	77447.0	1PCT_100yr	15702.00	65.33	85.45	78.76	85.94	0.000151	6.50	11986.60	5897.37	0.32
E100-00-00_N034	77436.5		Inline Weir									
E100-00-00_N034	77436.0	10PCT_10yr	10002.00	65.38	83.44	74.60	83.83	0.000106	5.14	4517.50	2622.95	0.26
E100-00-00_N034	77436.0	2PCT_50yr	14088.00	65.38	85.18	76.49	85.55	0.000101	5.40	11174.63	6038.51	0.26
E100-00-00_N034	77436.0	1PCT_100yr	15702.00	65.38	85.44	77.16	85.84	0.000110	5.72	12509.23	6561.30	0.28
E100-00-00_N034	77333.	10PCT_10yr	10002.00	64.36	83.44	74.17	83.81	0.000100	5.04	4840.33	2614.86	0.26
E100-00-00_N034	77333.	2PCT_50yr	14088.00	64.36	85.18	76.09	85.51	0.000095	5.17	11774.01	6353.97	0.27
E100-00-00_N034	77333.	1PCT_100yr	15702.00	64.36	85.44	76.79	85.80	0.000103	5.45	13144.95	6801.15	0.28
E100-00-00_N034	77129.0	10PCT_10yr	11179.00	62.35	83.17	73.91	83.73	0.000987	6.00	1861.91	2149.14	0.30
E100-00-00_N034	77129.0	2PCT_50yr	15382.00	62.35	85.23	75.89	85.41	0.000425	4.32	10939.80	5354.07	0.20
E100-00-00_N034	77129.0	1PCT_100yr	17876.00	62.35	85.48	76.95	85.69	0.000489	4.69	11908.18	5590.65	0.22
E100-00-00_N034	76222.0	10PCT_10yr	11179.00	63.51	82.07	74.25	82.72	0.001262	6.46	1730.42	1064.17	0.34
E100-00-00_N034	76222.0	2PCT_50yr	15382.00	63.51	84.60	76.17	84.90	0.000672	5.20	7625.14	3308.70	0.25
E100-00-00_N034	76222.0	1PCT_100yr	17876.00	63.51	84.61	77.16	85.04	0.000936	6.14	7666.25	4000.21	0.30
E100-00-00_N034	76041.0	10PCT_10yr	11179.00	61.17	81.92	72.58	82.45	0.001031	5.91	2135.18	1221.86	0.30
E100-00-00_N034	76041.0	2PCT_50yr	15382.00	61.17	84.50	74.69	84.77	0.000566	4.83	8165.63	3734.15	0.23
E100-00-00_N034	76041.0	1PCT_100yr	17876.00	61.17	84.48	75.80	84.84	0.000770	5.63	8097.40	3654.94	0.27
E100-00-00_N034	75984.0		Bridge									
E100-00-00_N034	75927.0	10PCT_10yr	11179.00	64.54	80.74	76.02	81.90	0.002918	8.61	1301.71	170.10	0.49
E100-00-00_N034	75927.0	2PCT_50yr	15382.00	64.54	82.27	77.96	83.62	0.003231	9.57	1958.06	1460.42	0.53
E100-00-00_N034	75927.0	1PCT_100yr	17876.00	64.54	83.93	78.95	84.38	0.001436	6.58	6021.87	2976.72	0.35
E100-00-00_N034	75698.0	10PCT_10yr	11179.00	61.92	80.32	74.49	81.22	0.002017	7.63	1465.69	365.52	0.42

E100-00-00 Mitigated
HEC-RAS Output

HEC-RAS Plan: Mitigated River: E100-00-00 Reach: E100-00-00_N034 (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
E100-00-00_N034	75698.0	2PCT_50yr	15382.00	61.92	81.62	76.38	82.93	0.002720	9.22	1866.40	1663.41	0.49
E100-00-00_N034	75698.0	1PCT_100yr	17876.00	61.92	82.01	77.36	83.58	0.003229	10.16	2231.76	2040.99	0.54
E100-00-00_N034	75102.0	10PCT_10yr	11179.00	61.74	80.53		80.60	0.000284	3.20	7070.18	929.82	0.16
E100-00-00_N034	75102.0	2PCT_50yr	15382.00	61.74	82.03		82.12	0.000327	3.60	9126.44	2189.60	0.18
E100-00-00_N034	75102.0	1PCT_100yr	17876.00	61.74	82.54		82.64	0.000368	3.88	10335.37	2580.89	0.19
E100-00-00_N034	74115.0	10PCT_10yr	11179.00	61.56	80.44		80.46	0.000078	1.66	15191.37	2523.35	0.08
E100-00-00_N034	74115.0	2PCT_50yr	15382.00	61.56	81.94		81.95	0.000089	1.86	19382.63	3246.62	0.09
E100-00-00_N034	74115.0	1PCT_100yr	17876.00	61.56	82.43		82.45	0.000101	2.04	21082.29	3771.32	0.10
E100-00-00_N034	73083.0	10PCT_10yr	11179.00	61.68	79.77	71.95	80.31	0.000154	5.99	2948.83	3019.67	0.32
E100-00-00_N034	73083.0	2PCT_50yr	15382.00	61.68	81.07	73.78	81.77	0.000183	6.99	4780.32	4137.96	0.35
E100-00-00_N034	73083.0	1PCT_100yr	17876.00	61.68	81.37	74.74	82.23	0.000222	7.82	5199.97	4418.70	0.39
E100-00-00_N034	72999.0	10PCT_10yr	11179.00	61.53	79.72	71.83	80.29	0.000151	6.05	1849.25	4569.08	0.31
E100-00-00_N034	72999.0	2PCT_50yr	15382.00	61.53	80.80	73.67	81.70	0.000213	7.61	2022.47	4826.78	0.38
E100-00-00_N034	72999.0	1PCT_100yr	17876.00	61.53	81.65	74.61	81.92	0.000094	5.29	15696.51	5080.45	0.25
E100-00-00_N034	72983.0		Bridge									
E100-00-00_N034	72965.0	10PCT_10yr	11179.00	61.71	78.39	72.02	79.14	0.000234	6.96	1607.23	3307.57	0.38
E100-00-00_N034	72965.0	2PCT_50yr	15382.00	61.71	79.45	73.85	80.61	0.000328	8.66	1775.91	4376.66	0.46
E100-00-00_N034	72965.0	1PCT_100yr	17876.00	61.71	79.74	74.79	81.24	0.000405	9.80	1823.69	4611.40	0.51
E100-00-00_N034	72931.0	10PCT_10yr	11179.00	61.69	78.40	71.55	79.12	0.000216	6.78	1699.33	4248.77	0.37
E100-00-00_N034	72931.0	2PCT_50yr	15382.00	61.69	79.47	73.43	80.56	0.000297	8.41	1982.86	4641.27	0.44
E100-00-00_N034	72931.0	1PCT_100yr	17876.00	61.69	79.78	74.43	81.17	0.000365	9.49	2067.72	4650.88	0.49
E100-00-00_N034	72919.5		Bridge									
E100-00-00_N034	72908.0	10PCT_10yr	11179.00	61.69	78.33	71.55	79.05	0.000221	6.84	1667.54	4016.95	0.38
E100-00-00_N034	72908.0	2PCT_50yr	15382.00	61.69	79.34	73.43	80.46	0.000308	8.51	2000.16	4635.76	0.45
E100-00-00_N034	72908.0	1PCT_100yr	17876.00	61.69	79.59	74.43	81.02	0.000385	9.65	2088.83	4642.59	0.50
E100-00-00_N034	72828.0	10PCT_10yr	10956.00	61.70	78.33	71.40	79.04	0.000205	6.78	1790.02	3144.66	0.36
E100-00-00_N034	72828.0	2PCT_50yr	15228.00	61.70	79.33	73.30	80.43	0.000296	8.49	2594.76	3691.97	0.45
E100-00-00_N034	72828.0	1PCT_100yr	17397.00	61.70	79.61	74.15	80.94	0.000353	9.38	2899.12	3865.52	0.49
E100-00-00_N034	71493.0	10PCT_10yr	10956.00	60.53	78.13	70.42	78.46	0.000776	5.09	4905.60	2600.31	0.27
E100-00-00_N034	71493.0	2PCT_50yr	15228.00	60.53	79.41	72.31	79.64	0.000619	4.86	8958.41	3715.55	0.24
E100-00-00_N034	71493.0	1PCT_100yr	17397.00	60.53	79.82	73.16	80.04	0.000609	4.93	10411.52	3939.83	0.24
E100-00-00_N034	70642.	10PCT_10yr	10956.00	57.60	77.63	68.71	77.86	0.000631	4.27	4882.36	2558.16	0.25
E100-00-00_N034	70642.	2PCT_50yr	15228.00	57.60	79.11	70.72	79.24	0.000390	3.64	10094.79	4097.85	0.20
E100-00-00_N034	70642.	1PCT_100yr	17397.00	57.60	79.54	71.61	79.65	0.000367	3.60	11875.60	4217.48	0.19
E100-00-00_N034	70472.0	10PCT_10yr	10956.00	57.02	77.43	68.41	77.74	0.000676	4.82	4230.10	2500.24	0.25
E100-00-00_N034	70472.0	2PCT_50yr	15228.00	57.02	79.00	70.38	79.17	0.000449	4.17	9451.59	3987.95	0.20
E100-00-00_N034	70472.0	1PCT_100yr	17397.00	57.02	79.43	71.26	79.58	0.000433	4.19	11210.21	4151.99	0.20
E100-00-00_N034	70461.5		Bridge									
E100-00-00_N034	70450.0	10PCT_10yr	10956.00	57.01	77.38	68.40	77.70	0.000690	4.87	4156.45	2298.27	0.25
E100-00-00_N034	70450.0	2PCT_50yr	15228.00	57.01	78.90	70.37	79.08	0.000478	4.29	9106.31	3766.50	0.21
E100-00-00_N034	70450.0	1PCT_100yr	17397.00	57.01	79.34	71.25	79.50	0.000457	4.29	10802.64	4091.44	0.21
E100-00-00_N034	70347.0	10PCT_10yr	10956.00	57.23	77.32	68.54	77.57	0.000628	4.47	4574.47	2680.21	0.24
E100-00-00_N034	70347.0	2PCT_50yr	15228.00	57.23	78.83	70.45	78.99	0.000442	4.07	9540.76	5393.91	0.20
E100-00-00_N034	70347.0	1PCT_100yr	17397.00	57.23	79.26	71.33	79.41	0.000431	4.11	11154.45	5583.83	0.20
E100-00-00_N034	70306.5		Bridge									
E100-00-00_N034	70266.0	10PCT_10yr	10956.00	57.62	77.33	68.93	77.54	0.000582	4.21	5803.21	3046.50	0.23
E100-00-00_N034	70266.0	2PCT_50yr	15228.00	57.62	78.71	70.84	78.84	0.000424	3.88	10544.23	5362.56	0.20
E100-00-00_N034	70266.0	1PCT_100yr	17397.00	57.62	79.14	71.67	79.26	0.000407	3.89	12183.81	5567.48	0.19
E100-00-00_N034	70166.	10PCT_10yr	10956.00	57.58	77.08	68.84	77.43	0.000909	5.11	3872.00	2195.78	0.28
E100-00-00_N034	70166.	2PCT_50yr	15228.00	57.58	78.59	70.94	78.78	0.000678	4.37	8566.85	4446.48	0.24
E100-00-00_N034	70166.	1PCT_100yr	17397.00	57.58	79.06	71.88	79.21	0.000643	4.16	10281.87	4946.40	0.24
E100-00-00_N034	69408.0	10PCT_10yr	10956.00	57.30	76.75		76.94	0.000451	4.13	5930.94	2995.86	0.21
E100-00-00_N034	69408.0	2PCT_50yr	15228.00	57.30	78.34		78.47	0.000318	3.76	12543.13	5392.08	0.18
E100-00-00_N034	69408.0	1PCT_100yr	17397.00	57.30	78.81		78.93	0.000306	3.76	15273.03	6122.16	0.17
E100-00-00_N034	68633.	10PCT_10yr	10956.00	54.59	76.24		76.52	0.000748	4.56	5211.97	2617.43	0.26
E100-00-00_N034	68633.	2PCT_50yr	15228.00	54.59	78.02		78.18	0.000479	4.08	11914.42	5157.89	0.21
E100-00-00_N034	68633.	1PCT_100yr	17397.00	54.59	78.50		78.66	0.000457	4.10	14752.43	6455.77	0.21
E100-00-00_N034	68533.0	10PCT_10yr	10956.00	54.24	75.74	66.94	76.33	0.001104	6.16	1778.27	2411.03	0.32
E100-00-00_N034	68533.0	2PCT_50yr	15228.00	54.24	77.91	68.98	78.13	0.000519	4.63	11184.10	5061.02	0.22
E100-00-00_N034	68533.0	1PCT_100yr	17397.00	54.24	78.42	69.87	78.61	0.000487	4.60	14032.40	6248.04	0.22
E100-00-00_N034	68518.0		Bridge									

HEC-RAS Plan: Mitigated River: E100-00-00 Reach: E100-00-00_N034 (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
E100-00-00_N034	68503.0	10PCT_10yr	10956.00	54.87	75.58	67.57	76.22	0.001266	6.45	2297.48	1327.44	0.34
E100-00-00_N034	68503.0	2PCT_50yr	15228.00	54.87	77.45	69.55	77.90	0.001003	6.09	6752.28	3114.06	0.30
E100-00-00_N034	68503.0	1PCT_100yr	17397.00	54.87	77.99	70.41	78.40	0.000952	6.10	8639.76	4034.04	0.30
E100-00-00_N034	68398.	10PCT_10yr	10956.00	54.97	75.67		75.94	0.000739	4.50	5171.79	2648.02	0.26
E100-00-00_N034	68398.	2PCT_50yr	15228.00	54.97	77.54		77.68	0.000428	3.85	11713.48	5138.57	0.20
E100-00-00_N034	68398.	1PCT_100yr	17397.00	54.97	78.07		78.20	0.000402	3.84	14780.22	6303.53	0.20
E100-00-00_N034	67624.0	10PCT_10yr	10956.00	55.72	74.52	67.11	75.15	0.001253	6.38	1933.92	739.94	0.34
E100-00-00_N034	67624.0	2PCT_50yr	15228.00	55.72	76.83	69.01	77.19	0.000754	5.50	7286.70	3785.56	0.27
E100-00-00_N034	67624.0	1PCT_100yr	17397.00	55.72	77.44	69.87	77.74	0.000677	5.37	9783.79	4473.46	0.26
E100-00-00_N034	67364.0	10PCT_10yr	10956.00	56.86	74.27	66.66	74.82	0.001037	5.95	1857.01	1153.89	0.31
E100-00-00_N034	67364.0	2PCT_50yr	15228.00	56.86	76.78	68.43	76.96	0.000410	4.27	9134.85	4030.72	0.20
E100-00-00_N034	67364.0	1PCT_100yr	17397.00	56.86	77.40	69.23	77.54	0.000342	4.02	11784.85	4491.04	0.19
E100-00-00_N034	67306.5		Bridge									
E100-00-00_N034	67246.0	10PCT_10yr	10956.00	55.91	74.31	65.70	74.78	0.000805	5.51	2006.31	1192.88	0.28
E100-00-00_N034	67246.0	2PCT_50yr	15228.00	55.91	76.54	67.45	76.76	0.000425	4.47	8342.43	3715.75	0.21
E100-00-00_N034	67246.0	1PCT_100yr	17397.00	55.91	77.19	68.25	77.36	0.000355	4.21	11015.09	4400.79	0.19
E100-00-00_N034	67095.	10PCT_10yr	10956.00	54.40	74.07	65.74	74.61	0.001325	6.05	2216.57	623.44	0.34
E100-00-00_N034	67095.	2PCT_50yr	15228.00	54.40	76.31	67.87	76.64	0.000904	5.24	6941.72	3327.37	0.29
E100-00-00_N034	67095.	1PCT_100yr	17397.00	54.40	77.01	68.86	77.26	0.000729	4.90	9713.67	4570.47	0.26
E100-00-00_N034	66832.0	10PCT_10yr	10956.00	51.77	73.82	64.65	74.31	0.000922	5.63	1945.37	990.89	0.29
E100-00-00_N034	66832.0	2PCT_50yr	15228.00	51.77	76.15	66.70	76.46	0.000597	5.04	7567.97	3467.11	0.24
E100-00-00_N034	66832.0	1PCT_100yr	17397.00	51.77	76.90	67.59	77.14	0.000493	4.74	10394.15	4084.38	0.22
E100-00-00_N034	66821.5		Bridge									
E100-00-00_N034	66806.0	10PCT_10yr	10956.00	51.65	73.76	64.53	74.25	0.000908	5.60	1955.25	1023.02	0.29
E100-00-00_N034	66806.0	2PCT_50yr	15228.00	51.65	75.95	66.54	76.27	0.000627	5.14	7275.27	3348.77	0.24
E100-00-00_N034	66806.0	1PCT_100yr	17397.00	51.65	76.73	67.44	76.97	0.000510	4.81	10183.34	4035.90	0.22
E100-00-00_N034	66695.0	10PCT_10yr	10956.00	51.35	73.83	63.09	74.13	0.000114	4.41	2487.15	2469.85	0.21
E100-00-00_N034	66695.0	2PCT_50yr	15228.00	51.35	75.99	64.63	76.20	0.000089	4.17	12342.24	3959.90	0.19
E100-00-00_N034	66695.0	1PCT_100yr	17397.00	51.35	76.74	65.33	76.94	0.000084	4.19	15391.89	4254.86	0.18
E100-00-00_N034	66641.5		Bridge									
E100-00-00_N034	66585.0	10PCT_10yr	10956.00	51.13	73.39	62.86	73.70	0.000120	4.48	2447.76	2228.71	0.21
E100-00-00_N034	66585.0	2PCT_50yr	15228.00	51.13	75.84	64.38	76.07	0.000091	4.23	11813.41	3901.62	0.19
E100-00-00_N034	66585.0	1PCT_100yr	17397.00	51.13	76.58	65.10	76.79	0.000087	4.27	14773.01	4175.03	0.19
E100-00-00_N034	66480.	10PCT_10yr	10956.00	51.54	73.18	63.21	73.63	0.000886	5.36	2043.94	544.20	0.28
E100-00-00_N034	66480.	2PCT_50yr	15228.00	51.54	75.78	65.34	76.04	0.000622	4.58	7600.03	3754.57	0.24
E100-00-00_N034	66480.	1PCT_100yr	17397.00	51.54	76.57	66.27	76.76	0.000496	4.24	11005.85	4602.72	0.22
E100-00-00_N034	65878.0	10PCT_10yr	10956.00	53.89	72.38	64.69	72.99	0.001196	6.30	1873.51	518.48	0.33
E100-00-00_N034	65878.0	2PCT_50yr	15228.00	53.89	75.32	66.62	75.64	0.000656	5.19	8113.90	4669.41	0.25
E100-00-00_N034	65878.0	1PCT_100yr	17397.00	53.89	76.29	67.48	76.47	0.000436	4.43	12816.35	5103.73	0.21
E100-00-00_N034	65650.	10PCT_10yr	10956.00	49.14	72.30	61.08	72.71	0.000801	5.17	2330.72	581.42	0.27
E100-00-00_N034	65650.	2PCT_50yr	15228.00	49.14	75.22	63.15	75.49	0.000592	4.60	6338.41	2649.55	0.23
E100-00-00_N034	65650.	1PCT_100yr	17397.00	49.14	76.19	64.12	76.38	0.000439	4.17	9794.05	3033.58	0.20
E100-00-00_N034	65504.0	10PCT_10yr	10956.00	49.14	72.34	61.18	72.62	0.000102	4.25	2575.91	583.62	0.20
E100-00-00_N034	65504.0	2PCT_50yr	15228.00	49.14	75.17	62.65	75.45	0.000097	4.49	7731.06	2780.46	0.20
E100-00-00_N034	65504.0	1PCT_100yr	17397.00	49.14	76.04	63.32	76.32	0.000095	4.59	10240.93	3012.44	0.19
E100-00-00_N034	65467.5		Bridge									
E100-00-00_N034	65425.0	10PCT_10yr	10956.00	51.86	72.08	63.90	72.50	0.000198	5.23	2094.80	464.32	0.27
E100-00-00_N034	65425.0	2PCT_50yr	15228.00	51.86	74.99	65.33	75.38	0.000160	5.23	6822.26	2716.95	0.25
E100-00-00_N034	65425.0	1PCT_100yr	17397.00	51.86	75.86	66.03	76.22	0.000149	5.25	9280.72	2932.39	0.24
E100-00-00_N034	65422.0	10PCT_10yr	10956.00	52.40	71.70	63.52	72.41	0.000328	6.93	2638.25	965.92	0.34
E100-00-00_N034	65422.0	2PCT_50yr	15228.00	52.40	74.89	65.74	75.36	0.000203	6.21	7554.06	2115.34	0.28
E100-00-00_N034	65422.0	1PCT_100yr	17397.00	52.40	75.76	66.73	76.20	0.000191	6.26	9564.14	2484.99	0.27
E100-00-00_N034	65411.0		Bridge									
E100-00-00_N034	65401.0	10PCT_10yr	10956.00	52.40	71.66	63.48	72.38	0.000331	6.96	2604.65	951.70	0.35
E100-00-00_N034	65401.0	2PCT_50yr	15228.00	52.40	74.64	65.70	75.15	0.000223	6.44	7009.86	1997.33	0.29
E100-00-00_N034	65401.0	1PCT_100yr	17397.00	52.40	75.48	66.69	75.97	0.000213	6.53	8849.71	2376.41	0.29
E100-00-00_N034	65268.	10PCT_10yr	10956.00	53.09	71.55		72.29	0.001584	6.91	1584.58	150.86	0.38
E100-00-00_N034	65268.	2PCT_50yr	15228.00	53.09	74.17		74.99	0.001624	7.35	2618.34	971.11	0.39
E100-00-00_N034	65268.	1PCT_100yr	17397.00	53.09	75.03		75.82	0.001565	7.41	3580.78	1290.66	0.38
E100-00-00_N034	65068.0	10PCT_10yr	10956.00	54.12	71.28	64.27	71.98	0.001411	6.72	1630.28	148.42	0.36
E100-00-00_N034	65068.0	2PCT_50yr	15228.00	54.12	73.86	66.14	74.68	0.001441	7.36	2490.90	780.09	0.37
E100-00-00_N034	65068.0	1PCT_100yr	17397.00	54.12	74.66	66.99	75.51	0.001474	7.63	3185.96	943.08	0.37

E100-00-00 Mitigated
HEC-RAS Output

HEC-RAS Plan: Mitigated River: E100-00-00 Reach: E100-00-00_N034 (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
E100-00-00_N034	63780.0	10PCT_10yr	13275.00	49.90	70.56	62.11	71.29	0.000316	6.83	1965.08	224.94	0.34
E100-00-00_N034	63780.0	2PCT_50yr	18495.00	49.90	73.02	64.29	73.92	0.000351	7.71	3454.91	1160.63	0.37
E100-00-00_N034	63780.0	1PCT_100yr	21084.00	49.90	73.80	65.25	74.74	0.000357	8.00	5316.51	3040.23	0.37
E100-00-00_N034	62890.0	10PCT_10yr	13275.00	51.59	70.28		71.00	0.000315	6.80	1951.05	159.88	0.34
E100-00-00_N034	62890.0	2PCT_50yr	18495.00	51.59	72.76		73.59	0.000328	7.49	4408.90	2380.29	0.36
E100-00-00_N034	62890.0	1PCT_100yr	21084.00	51.59	73.60		74.40	0.000309	7.57	6458.68	2599.21	0.35
E100-00-00_N034	61936.0	10PCT_10yr	13275.00	50.02	69.99		70.71	0.000296	6.80	1953.77	168.22	0.33
E100-00-00_N034	61936.0	2PCT_50yr	18495.00	50.02	72.47		73.30	0.000316	7.50	4643.68	1979.25	0.35
E100-00-00_N034	61936.0	1PCT_100yr	21084.00	50.02	73.29		74.12	0.000315	7.69	6343.28	2152.99	0.35
E100-00-00_N034	60759.0	10PCT_10yr	13275.00	49.86	70.15		70.22	0.000203	3.10	9225.12	1202.95	0.14
E100-00-00_N034	60759.0	2PCT_50yr	18495.00	49.86	72.71		72.78	0.000194	3.33	14115.80	2668.71	0.14
E100-00-00_N034	60759.0	1PCT_100yr	21084.00	49.86	73.54		73.61	0.000191	3.42	16446.42	2961.94	0.14
E100-00-00_N034	59972.0	10PCT_10yr	13275.00	47.43	69.31	59.61	69.90	0.000933	6.18	2186.86	368.32	0.30
E100-00-00_N034	59972.0	2PCT_50yr	18495.00	47.43	71.85	61.78	72.48	0.000896	6.61	4107.57	1246.72	0.30
E100-00-00_N034	59972.0	1PCT_100yr	21084.00	47.43	72.67	62.71	73.31	0.000894	6.84	5046.94	1450.56	0.30
E100-00-00_N034	58797.0	10PCT_10yr	13275.00	46.43	69.58	55.66	69.60	0.000044	1.50	10419.12	1486.11	0.07
E100-00-00_N034	58797.0	2PCT_50yr	18495.00	46.43	72.13	56.32	72.15	0.000049	1.70	14709.43	2347.16	0.07
E100-00-00_N034	58797.0	1PCT_100yr	21084.00	46.43	72.94	56.60	72.97	0.000053	1.82	16296.75	2643.02	0.08
E100-00-00_N034	57918.0	10PCT_10yr	13275.00	45.69	69.09		69.47	0.000515	4.95	2952.36	493.01	0.23
E100-00-00_N034	57918.0	2PCT_50yr	18495.00	45.69	71.61		72.01	0.000504	5.37	5527.75	1479.52	0.23
E100-00-00_N034	57918.0	1PCT_100yr	21084.00	45.69	72.41		72.82	0.000509	5.56	6993.27	2030.78	0.23
E100-00-00_N034	57015.	10PCT_10yr	13275.00	43.29	68.58		68.96	0.000618	4.99	3169.95	717.15	0.24
E100-00-00_N034	57015.	2PCT_50yr	18495.00	43.29	71.24		71.53	0.000506	4.73	7645.56	2480.74	0.22
E100-00-00_N034	57015.	1PCT_100yr	21084.00	43.29	72.10		72.35	0.000450	4.64	10002.56	3015.93	0.21
E100-00-00_N034	56811.0	10PCT_10yr	13275.00	42.75	68.59	55.33	68.78	0.000301	3.47	3824.77	438.34	0.17
E100-00-00_N034	56811.0	2PCT_50yr	18495.00	42.75	71.20	57.26	71.41	0.000300	3.76	6982.89	1984.23	0.17
E100-00-00_N034	56811.0	1PCT_100yr	21084.00	42.75	72.04	58.08	72.25	0.000292	3.86	8811.33	2292.29	0.17
E100-00-00_N034	56718.5		Bridge									
E100-00-00_N034	56621.0	10PCT_10yr	13275.00	42.87	68.24	55.45	68.45	0.000331	3.60	3718.97	388.10	0.18
E100-00-00_N034	56621.0	2PCT_50yr	18495.00	42.87	70.50	57.36	70.76	0.000385	4.11	5563.73	1500.68	0.20
E100-00-00_N034	56621.0	1PCT_100yr	21084.00	42.87	71.28	58.18	71.55	0.000394	4.31	6907.39	1960.44	0.20
E100-00-00_N034	56486.	10PCT_10yr	13275.00	43.69	67.95		68.33	0.000606	4.97	2705.74	325.80	0.24
E100-00-00_N034	56486.	2PCT_50yr	18495.00	43.69	70.28		70.66	0.000556	5.22	6534.98	2508.92	0.24
E100-00-00_N034	56486.	1PCT_100yr	21084.00	43.69	71.14		71.48	0.000500	5.14	8891.22	2967.05	0.23
E100-00-00_N034	56239.0	10PCT_10yr	13275.00	45.18	67.81		68.23	0.000282	5.18	2705.05	656.83	0.24
E100-00-00_N034	56239.0	2PCT_50yr	18495.00	45.18	70.10		70.55	0.000301	5.66	6626.14	2752.91	0.25
E100-00-00_N034	56239.0	1PCT_100yr	21084.00	45.18	70.96		71.38	0.000281	5.66	9229.91	3285.02	0.24
E100-00-00_N034	56231.0	10PCT_10yr	13275.00	41.74	67.83		68.22	0.000287	5.01	2877.46	656.22	0.23
E100-00-00_N034	56231.0	2PCT_50yr	18495.00	41.74	70.12		70.55	0.000311	5.50	6685.46	2780.47	0.24
E100-00-00_N034	56231.0	1PCT_100yr	21084.00	41.74	70.98		71.37	0.000291	5.51	9308.09	3324.89	0.23
E100-00-00_N034	55757.0	10PCT_10yr	17355.00	41.59	67.38	56.81	68.02	0.000482	6.42	2844.09	435.35	0.29
E100-00-00_N034	55757.0	2PCT_50yr	23106.00	41.59	69.57	58.69	70.33	0.000507	7.13	4719.75	1438.93	0.31
E100-00-00_N034	55757.0	1PCT_100yr	26105.00	41.59	70.35	59.59	71.15	0.000518	7.43	5740.16	1668.78	0.31
E100-00-00_N034	55190.	10PCT_10yr	17355.00	41.48	67.06	56.43	67.72	0.000583	6.49	2692.97	256.89	0.31
E100-00-00_N034	55190.	2PCT_50yr	23106.00	41.48	69.22	58.47	70.00	0.000666	7.19	4549.19	2060.47	0.33
E100-00-00_N034	55190.	1PCT_100yr	26105.00	41.48	70.06	59.40	70.80	0.000639	7.24	6759.67	2253.95	0.32
E100-00-00_N034	55112.0	10PCT_10yr	17355.00	41.47	67.00	56.65	67.67	0.000513	6.55	2647.86	244.33	0.30
E100-00-00_N034	55112.0	2PCT_50yr	23106.00	41.47	69.11	58.54	69.93	0.000596	7.40	4603.31	1927.98	0.32
E100-00-00_N034	55112.0	1PCT_100yr	26105.00	41.47	69.86	59.44	70.72	0.000619	7.68	6167.47	2300.41	0.33
E100-00-00_N034	55086.0		Bridge									
E100-00-00_N034	55059.0	10PCT_10yr	17355.00	41.06	66.91	56.23	67.55	0.000487	6.42	2704.40	196.63	0.29
E100-00-00_N034	55059.0	2PCT_50yr	23106.00	41.06	68.87	58.13	69.72	0.000592	7.42	4096.67	1832.41	0.32
E100-00-00_N034	55059.0	1PCT_100yr	26105.00	41.06	69.58	59.03	70.48	0.000632	7.80	5387.05	2086.02	0.33
E100-00-00_N034	54895.0	10PCT_10yr	17355.00	41.14	66.86		67.42	0.000633	6.03	2876.84	261.05	0.32
E100-00-00_N034	54895.0	2PCT_50yr	23106.00	41.14	68.87		69.51	0.000695	6.51	4865.76	1705.67	0.33
E100-00-00_N034	54895.0	1PCT_100yr	26105.00	41.14	69.59		70.24	0.000683	6.70	6196.10	1968.18	0.33
E100-00-00_N034	54667.0	10PCT_10yr	17355.00	41.24	66.70	55.61	67.29	0.000390	6.21	2882.57	377.33	0.29
E100-00-00_N034	54667.0	2PCT_50yr	23106.00	41.24	68.63	57.64	69.35	0.000447	6.96	5165.54	1884.47	0.31
E100-00-00_N034	54667.0	1PCT_100yr	26105.00	41.24	69.34	58.58	70.09	0.000455	7.23	6585.77	2127.17	0.31
E100-00-00_N034	54606.0		Bridge									
E100-00-00_N034	54545.0	10PCT_10yr	17355.00	40.55	66.22	54.86	66.80	0.000378	6.14	2859.59	335.16	0.28
E100-00-00_N034	54545.0	2PCT_50yr	23106.00	40.55	68.61	56.92	69.28	0.000393	6.71	5264.75	1879.10	0.29

HEC-RAS Plan: Mitigated River: E100-00-00 Reach: E100-00-00_N034 (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
E100-00-00_N034	54545.0	1PCT_100yr	26105.00	40.55	69.36	57.88	70.05	0.000400	6.97	6756.72	2130.22	0.29
E100-00-00_N034	54398.	10PCT_10yr	17355.00	40.59	66.21		66.69	0.000448	5.63	3315.44	604.77	0.27
E100-00-00_N034	54398.	2PCT_50yr	23106.00	40.59	68.64		69.14	0.000398	5.91	6536.06	1914.62	0.26
E100-00-00_N034	54398.	1PCT_100yr	26105.00	40.59	69.40		69.90	0.000398	6.09	8064.82	2118.30	0.26
E100-00-00_N034	54053.0	10PCT_10yr	17355.00	40.70	65.98		66.54	0.000389	6.13	3477.22	738.44	0.28
E100-00-00_N034	54053.0	2PCT_50yr	23106.00	40.70	68.46		69.02	0.000345	6.37	6541.13	1452.57	0.27
E100-00-00_N034	54053.0	1PCT_100yr	26105.00	40.70	69.18		69.77	0.000359	6.68	7602.70	1542.92	0.27
E100-00-00_N034	53766.	10PCT_10yr	17355.00	40.78	65.84		66.41	0.000522	6.09	3018.94	391.80	0.29
E100-00-00_N034	53766.	2PCT_50yr	23106.00	40.78	68.30		68.90	0.000476	6.44	5838.50	1707.77	0.28
E100-00-00_N034	53766.	1PCT_100yr	26105.00	40.78	69.02		69.65	0.000485	6.69	7143.42	1894.70	0.29
E100-00-00_N034	53664.0	10PCT_10yr	17355.00	40.81	65.79	55.12	66.36	0.000463	6.10	3073.32	552.64	0.28
E100-00-00_N034	53664.0	2PCT_50yr	23106.00	40.81	68.26	56.99	68.85	0.000434	6.44	6358.06	1754.19	0.28
E100-00-00_N034	53664.0	1PCT_100yr	26105.00	40.81	68.98	57.88	69.60	0.000445	6.70	7638.31	1795.28	0.28
E100-00-00_N034	53653.5		Bridge									
E100-00-00_N034	53642.0	10PCT_10yr	17355.00	40.81	65.69	55.12	66.28	0.000472	6.15	3021.94	519.68	0.28
E100-00-00_N034	53642.0	2PCT_50yr	23106.00	40.81	68.16	56.99	68.77	0.000447	6.51	6191.39	1748.77	0.28
E100-00-00_N034	53642.0	1PCT_100yr	26105.00	40.81	68.84	57.85	69.48	0.000464	6.81	7388.87	1787.35	0.29
E100-00-00_N034	53459.0	10PCT_10yr	17355.00	41.48	65.55	55.44	66.17	0.000546	6.33	2864.93	434.40	0.29
E100-00-00_N034	53459.0	2PCT_50yr	23106.00	41.48	68.04	57.22	68.68	0.000526	6.63	6270.52	2066.93	0.29
E100-00-00_N034	53459.0	1PCT_100yr	26105.00	41.48	68.74	58.07	69.38	0.000540	6.86	7717.44	2197.50	0.29
E100-00-00_N034	53371.0		Bridge									
E100-00-00_N034	53282.0	10PCT_10yr	17355.00	41.06	65.48	55.02	66.08	0.000513	6.18	2919.95	403.03	0.28
E100-00-00_N034	53282.0	2PCT_50yr	23106.00	41.06	67.81	56.79	68.45	0.000527	6.66	5872.93	2013.17	0.29
E100-00-00_N034	53282.0	1PCT_100yr	26105.00	41.06	68.73	57.63	69.35	0.000506	6.73	7777.33	2195.25	0.29
E100-00-00_N034	53116.	10PCT_10yr	17355.00	40.32	65.43		65.96	0.000462	5.91	3487.54	931.31	0.27
E100-00-00_N034	53116.	2PCT_50yr	23106.00	40.32	67.81		68.30	0.000393	6.03	7339.06	2068.76	0.26
E100-00-00_N034	53116.	1PCT_100yr	26105.00	40.32	68.73		69.20	0.000367	6.04	9382.24	2324.07	0.25
E100-00-00_N034	52833.	10PCT_10yr	17355.00	39.06	65.36		65.82	0.000368	5.51	3607.60	675.58	0.25
E100-00-00_N034	52833.	2PCT_50yr	23106.00	39.06	67.75		68.18	0.000319	5.65	7644.55	2318.21	0.24
E100-00-00_N034	52833.	1PCT_100yr	26105.00	39.06	68.69		69.08	0.000295	5.62	9913.13	2545.21	0.23
E100-00-00_N034	52760.0	10PCT_10yr	17355.00	38.73	65.14	55.58	65.75	0.000530	6.30	3095.22	751.59	0.30
E100-00-00_N034	52760.0	2PCT_50yr	23106.00	38.73	67.60	57.36	68.12	0.000431	6.24	7102.27	2299.67	0.27
E100-00-00_N034	52760.0	1PCT_100yr	26105.00	38.73	68.57	58.20	69.03	0.000380	6.10	9427.34	2466.61	0.26
E100-00-00_N034	52742.0		Bridge									
E100-00-00_N034	52722.0	10PCT_10yr	17355.00	38.68	65.06	55.45	65.67	0.000534	6.32	3070.86	733.19	0.30
E100-00-00_N034	52722.0	2PCT_50yr	23106.00	38.68	67.38	57.25	67.94	0.000460	6.40	6715.90	2270.91	0.28
E100-00-00_N034	52722.0	1PCT_100yr	26105.00	38.68	68.37	58.14	68.85	0.000403	6.24	9045.96	2440.02	0.27
E100-00-00_N034	52589.0	10PCT_10yr	17355.00	38.93	65.06		65.55	0.000388	5.70	3482.58	582.59	0.26
E100-00-00_N034	52589.0	2PCT_50yr	23106.00	38.93	67.37		67.83	0.000347	5.87	7407.31	2281.23	0.25
E100-00-00_N034	52589.0	1PCT_100yr	26105.00	38.93	68.36		68.77	0.000312	5.77	9774.34	2510.76	0.24
E100-00-00_N034	51777.0	10PCT_10yr	17355.00	38.57	64.83		65.25	0.000316	5.40	4441.27	1027.98	0.24
E100-00-00_N034	51777.0	2PCT_50yr	23106.00	38.57	67.21		67.56	0.000260	5.37	8481.40	2527.92	0.22
E100-00-00_N034	51777.0	1PCT_100yr	26105.00	38.57	68.22		68.53	0.000231	5.25	11154.63	2740.97	0.21
E100-00-00_N034	51021.	10PCT_10yr	17355.00	37.55	64.60		64.99	0.000373	5.18	4430.45	860.23	0.24
E100-00-00_N034	51021.	2PCT_50yr	23106.00	37.55	67.04		67.36	0.000292	5.08	8620.43	2484.00	0.22
E100-00-00_N034	51021.	1PCT_100yr	26105.00	37.55	68.08		68.36	0.000252	4.91	11365.89	2714.08	0.20
E100-00-00_N034	50921.0	10PCT_10yr	17355.00	37.41	64.39	52.43	64.91	0.000393	5.79	2998.02	539.35	0.26
E100-00-00_N034	50921.0	2PCT_50yr	23106.00	37.41	66.83	54.51	67.28	0.000346	5.80	7243.93	2378.45	0.25
E100-00-00_N034	50921.0	1PCT_100yr	26105.00	37.41	67.91	55.46	68.30	0.000297	5.59	10064.72	2825.35	0.23
E100-00-00_N034	50865.0		Bridge									
E100-00-00_N034	50808.0	10PCT_10yr	17355.00	37.52	64.21	52.54	64.75	0.000412	5.90	2942.52	495.53	0.27
E100-00-00_N034	50808.0	2PCT_50yr	23106.00	37.52	66.72	54.60	67.20	0.000366	5.91	6974.33	2346.37	0.25
E100-00-00_N034	50808.0	1PCT_100yr	26105.00	37.52	67.86	55.56	68.26	0.000307	5.65	9920.68	2819.29	0.23
E100-00-00_N034	50694.	10PCT_10yr	17355.00	37.44	64.36		64.53	0.000214	3.94	6724.67	1021.09	0.18
E100-00-00_N034	50694.	2PCT_50yr	23106.00	37.44	66.85		67.01	0.000175	3.97	11267.78	2585.96	0.17
E100-00-00_N034	50694.	1PCT_100yr	26105.00	37.44	67.97		68.10	0.000152	3.86	14411.42	3019.85	0.16
E100-00-00_N034	49824.0	10PCT_10yr	17355.00	36.84	63.85		64.31	0.000312	5.47	3617.35	870.92	0.24
E100-00-00_N034	49824.0	2PCT_50yr	23106.00	36.84	66.39		66.82	0.000274	5.63	8808.50	3430.27	0.23
E100-00-00_N034	49824.0	1PCT_100yr	26105.00	36.84	67.61		67.95	0.000225	5.33	13262.15	3814.55	0.21
E100-00-00_N034	49564.	10PCT_10yr	17355.00	36.36	63.78		64.22	0.000350	5.30	3728.28	1070.86	0.24
E100-00-00_N034	49564.	2PCT_50yr	23106.00	36.36	66.33		66.74	0.000300	5.44	8668.16	3108.29	0.23
E100-00-00_N034	49564.	1PCT_100yr	26105.00	36.36	67.56		67.89	0.000250	5.18	12799.14	3597.66	0.21

E100-00-00 Mitigated
HEC-RAS Output

HEC-RAS Plan: Mitigated River: E100-00-00 Reach: E100-00-00_N034 (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
E100-00-00_N034	49457.0	10PCT_10yr	17355.00	36.16	63.77	50.79	64.15	0.000409	4.92	3830.32	934.27	0.24
E100-00-00_N034	49457.0	2PCT_50yr	23106.00	36.16	66.35	52.69	66.68	0.000316	4.89	9055.34	3255.58	0.22
E100-00-00_N034	49457.0	1PCT_100yr	26105.00	36.16	67.57	53.55	67.83	0.000253	4.60	13353.01	3668.10	0.20
E100-00-00_N034	49446.0		Bridge									
E100-00-00_N034	49437.0	10PCT_10yr	17355.00	36.17	63.65	50.79	64.04	0.000423	4.98	3717.90	816.28	0.25
E100-00-00_N034	49437.0	2PCT_50yr	23106.00	36.17	66.27	52.69	66.61	0.000326	4.95	8769.46	3055.28	0.22
E100-00-00_N034	49437.0	1PCT_100yr	26105.00	36.17	67.45	53.55	67.73	0.000266	4.70	12885.63	3636.60	0.20
E100-00-00_N034	49281.	10PCT_10yr	17355.00	36.61	63.53		63.97	0.000291	5.38	3738.76	1369.21	0.23
E100-00-00_N034	49281.	2PCT_50yr	23106.00	36.61	66.17		66.55	0.000240	5.37	10181.90	3045.14	0.21
E100-00-00_N034	49281.	1PCT_100yr	26105.00	36.61	67.36		67.67	0.000205	5.15	14140.71	3591.38	0.20
E100-00-00_N034	48942.0	10PCT_10yr	17355.00	37.57	63.44		63.86	0.000281	5.26	3964.69	889.73	0.23
E100-00-00_N034	48942.0	2PCT_50yr	23106.00	37.57	66.05		66.46	0.000247	5.43	9225.95	2847.78	0.22
E100-00-00_N034	48942.0	1PCT_100yr	26105.00	37.57	67.26		67.60	0.000215	5.27	12927.88	3371.64	0.20
E100-00-00_N034	47857.0	10PCT_10yr	17355.00	34.44	63.19		63.57	0.000245	5.01	4800.03	1782.11	0.21
E100-00-00_N034	47857.0	2PCT_50yr	23106.00	34.44	65.94		66.20	0.000171	4.61	13237.86	3811.88	0.18
E100-00-00_N034	47857.0	1PCT_100yr	26105.00	34.44	67.19		67.38	0.000137	4.30	18248.31	4178.45	0.16
E100-00-00_N034	46827.0	10PCT_10yr	17355.00	33.93	62.88		63.29	0.000299	5.21	4450.93	1558.91	0.23
E100-00-00_N034	46827.0	2PCT_50yr	23106.00	33.93	65.69		66.00	0.000223	4.93	10384.45	2588.40	0.20
E100-00-00_N034	46827.0	1PCT_100yr	26105.00	33.93	66.97		67.22	0.000187	4.72	13813.97	2778.58	0.19
E100-00-00_N034	46096.0	10PCT_10yr	22738.00	33.45	62.25		62.97	0.000496	6.87	4538.90	1013.92	0.30
E100-00-00_N034	46096.0	2PCT_50yr	32654.00	33.45	64.92		65.70	0.000495	7.59	8958.05	2167.62	0.31
E100-00-00_N034	46096.0	1PCT_100yr	35835.00	33.45	66.37		66.99	0.000387	7.05	12579.53	2773.81	0.27
E100-00-00_N034	45120.	10PCT_10yr	22738.00	32.65	61.81	49.80	62.45	0.000521	6.57	4457.84	1279.63	0.28
E100-00-00_N034	45120.	2PCT_50yr	32654.00	32.65	64.26	52.80	65.15	0.000626	7.89	5966.58	2527.19	0.32
E100-00-00_N034	45120.	1PCT_100yr	35835.00	32.65	65.66	53.70	66.51	0.000560	7.83	6879.92	2798.95	0.31
E100-00-00_N034	44983.0	10PCT_10yr	22738.00	32.54	61.70	49.51	62.37	0.000493	6.61	3573.27	1227.60	0.29
E100-00-00_N034	44983.0	2PCT_50yr	32654.00	32.54	63.94	52.20	65.01	0.000660	8.32	4119.81	2469.71	0.34
E100-00-00_N034	44983.0	1PCT_100yr	35835.00	32.54	65.23	53.23	66.35	0.000635	8.53	4433.13	2776.79	0.33
E100-00-00_N034	44963.5		Bridge									
E100-00-00_N034	44945.0	10PCT_10yr	22738.00	32.27	61.35	49.24	62.04	0.000504	6.65	3541.21	1052.75	0.29
E100-00-00_N034	44945.0	2PCT_50yr	32654.00	32.27	63.61	51.94	64.69	0.000672	8.37	4090.74	2365.64	0.34
E100-00-00_N034	44945.0	1PCT_100yr	35835.00	32.27	64.69	52.94	65.84	0.000669	8.66	4352.98	2672.86	0.34
E100-00-00_N034	44711.0	10PCT_10yr	22738.00	31.73	61.16	48.69	61.90	0.000448	6.92	3286.97	1438.20	0.29
E100-00-00_N034	44711.0	2PCT_50yr	32654.00	31.73	63.45	51.56	64.53	0.000618	8.50	4937.86	2284.91	0.34
E100-00-00_N034	44711.0	1PCT_100yr	35835.00	31.73	64.57	52.44	65.67	0.000590	8.61	5879.16	2563.28	0.34
E100-00-00_N034	44700.0		Bridge									
E100-00-00_N034	44688.0	10PCT_10yr	22738.00	31.70	61.01	48.66	61.76	0.000455	6.96	3264.76	1334.63	0.29
E100-00-00_N034	44688.0	2PCT_50yr	32654.00	31.70	63.27	51.53	64.39	0.000635	8.59	4832.25	2248.47	0.35
E100-00-00_N034	44688.0	1PCT_100yr	35835.00	31.70	64.46	52.36	65.57	0.000602	8.67	5800.84	2551.04	0.34
E100-00-00_N034	44556.	10PCT_10yr	22738.00	31.56	60.94	48.55	61.69	0.000568	6.95	3305.12	941.61	0.30
E100-00-00_N034	44556.	2PCT_50yr	32654.00	31.56	63.20	51.66	64.29	0.000757	8.51	4954.29	2155.57	0.35
E100-00-00_N034	44556.	1PCT_100yr	35835.00	31.56	64.39	52.50	65.46	0.000705	8.55	5939.33	2553.15	0.34
E100-00-00_N034	44372.0	10PCT_10yr	22738.00	31.36	60.88	48.60	61.59	0.000460	6.78	3676.75	1523.80	0.29
E100-00-00_N034	44372.0	2PCT_50yr	32654.00	31.36	63.15	51.52	64.13	0.000616	8.15	5762.01	2367.17	0.34
E100-00-00_N034	44372.0	1PCT_100yr	35835.00	31.36	64.36	52.36	65.29	0.000581	8.08	7077.62	2745.33	0.33
E100-00-00_N034	43626.	10PCT_10yr	22738.00	30.94	60.39	48.57	61.18	0.000649	7.15	3794.83	1605.64	0.32
E100-00-00_N034	43626.	2PCT_50yr	32654.00	30.94	62.73	51.62	63.62	0.000698	8.02	8251.81	3504.86	0.33
E100-00-00_N034	43626.	1PCT_100yr	35835.00	30.94	64.10	52.57	64.81	0.000554	7.51	11718.92	5485.17	0.30
E100-00-00_N034	43420.0	10PCT_10yr	22738.00	30.82	60.33	48.86	61.01	0.000455	6.59	3452.00	1396.19	0.28
E100-00-00_N034	43420.0	2PCT_50yr	32654.00	30.82	62.68	51.31	63.42	0.000500	7.37	8414.53	3781.15	0.30
E100-00-00_N034	43420.0	1PCT_100yr	35835.00	30.82	64.08	52.05	64.64	0.000378	6.71	12604.21	4726.98	0.26
E100-00-00_N034	43348.0		Bridge									
E100-00-00_N034	43276.0	10PCT_10yr	22738.00	30.57	59.63	48.62	60.34	0.000497	6.77	3359.77	630.46	0.29
E100-00-00_N034	43276.0	2PCT_50yr	32654.00	30.57	62.64	51.06	63.38	0.000489	7.32	8370.22	3734.88	0.29
E100-00-00_N034	43276.0	1PCT_100yr	35835.00	30.57	63.54	51.77	64.22	0.000447	7.22	10616.27	4505.17	0.28
E100-00-00_N034	42932.	10PCT_10yr	22738.00	30.49	59.53	47.32	60.11	0.000436	6.34	5359.09	1619.13	0.27
E100-00-00_N034	42932.	2PCT_50yr	32654.00	30.49	62.62	50.24	63.11	0.000356	6.38	12731.73	4522.83	0.25
E100-00-00_N034	42932.	1PCT_100yr	35835.00	30.49	63.55	51.06	63.96	0.000310	6.13	15911.52	4768.77	0.23
E100-00-00_N034	42650.0	10PCT_10yr	22738.00	30.43	59.13	47.64	59.92	0.000509	7.13	3199.97	955.32	0.31
E100-00-00_N034	42650.0	2PCT_50yr	32654.00	30.43	62.45	50.59	62.99	0.000368	6.66	11232.26	4558.25	0.27
E100-00-00_N034	42650.0	1PCT_100yr	35835.00	30.43	63.44	51.41	63.88	0.000304	6.27	15260.87	4742.48	0.25

E100-00-00 Mitigated
HEC-RAS Output

HEC-RAS Plan: Mitigated River: E100-00-00 Reach: E100-00-00_N034 (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
E100-00-00_N034	42603.0		Bridge									
E100-00-00_N034	42555.0	10PCT_10yr	22738.00	30.34	58.27	47.55	59.14	0.000583	7.47	3045.68	720.62	0.33
E100-00-00_N034	42555.0	2PCT_50yr	32654.00	30.34	62.16	50.48	62.77	0.000403	6.92	10378.31	4204.94	0.28
E100-00-00_N034	42555.0	1PCT_100yr	35835.00	30.34	63.07	51.30	63.58	0.000346	6.62	13910.75	4683.91	0.26
E100-00-00_N034	42356.	10PCT_10yr	22738.00	30.03	58.24	46.29	58.94	0.000607	6.77	3514.82	685.23	0.30
E100-00-00_N034	42356.	2PCT_50yr	32654.00	30.03	62.11	49.24	62.66	0.000439	6.51	11021.43	4108.83	0.26
E100-00-00_N034	42356.	1PCT_100yr	35835.00	30.03	63.03	50.07	63.48	0.000365	6.13	15429.22	4442.24	0.24
E100-00-00_N034	41337.0	10PCT_10yr	22738.00	28.45	57.76	45.66	58.45	0.000395	6.77	4378.70	1057.58	0.28
E100-00-00_N034	41337.0	2PCT_50yr	32654.00	28.45	61.84	48.61	62.30	0.000257	6.26	13767.38	3878.12	0.23
E100-00-00_N034	41337.0	1PCT_100yr	35835.00	28.45	62.85	49.46	63.18	0.000200	5.68	19627.55	4276.07	0.21
E100-00-00_N034	40384.0	10PCT_10yr	22738.00	27.79	57.39		57.90	0.000694	5.92	5281.72	1402.43	0.30
E100-00-00_N034	40384.0	2PCT_50yr	32654.00	27.79	61.71		61.97	0.000307	4.81	15483.48	3076.39	0.21
E100-00-00_N034	40384.0	1PCT_100yr	35835.00	27.79	62.70		62.93	0.000263	4.63	18661.56	3271.47	0.20
E100-00-00_N034	39567.	10PCT_10yr	22738.00	27.06	56.66		57.36	0.000585	6.75	3878.95	843.62	0.30
E100-00-00_N034	39567.	2PCT_50yr	32654.00	27.06	61.24		61.68	0.000335	5.95	12619.87	2604.79	0.24
E100-00-00_N034	39567.	1PCT_100yr	35835.00	27.06	62.31		62.68	0.000288	5.71	15504.89	2789.17	0.22
E100-00-00_N034	39419.0	10PCT_10yr	22738.00	26.87	56.59	44.55	57.27	0.000479	6.59	3448.44	626.70	0.29
E100-00-00_N034	39419.0	2PCT_50yr	32654.00	26.87	60.78	47.15	61.51	0.000510	7.10	6016.49	2976.53	0.29
E100-00-00_N034	39419.0	1PCT_100yr	35835.00	26.87	61.75	47.90	62.50	0.000495	7.24	7121.48	4181.20	0.29
E100-00-00_N034	39382.5		Bridge									
E100-00-00_N034	39329	10PCT_10yr	22738.00	26.81	56.42	44.56	57.10	0.000471	6.63	3427.39	735.04	0.29
E100-00-00_N034	39329	2PCT_50yr	32654.00	26.81	60.27	47.17	61.10	0.000561	7.42	5301.18	3458.67	0.31
E100-00-00_N034	39329	1PCT_100yr	35835.00	26.81	61.48	47.94	62.30	0.000521	7.47	6410.80	4664.11	0.30
E100-00-00_N034	39325	10PCT_10yr	22738.00	26.80	56.41	44.07	57.10	0.000439	6.64	3426.36	197.32	0.28
E100-00-00_N034	39325	2PCT_50yr	32654.00	26.80	60.22	46.65	61.09	0.000522	7.56	4982.66	2149.57	0.30
E100-00-00_N034	39325	1PCT_100yr	35835.00	26.80	61.46	47.39	62.30	0.000505	7.55	5974.93	2586.84	0.30
E100-00-00_N034	39223		Bridge									
E100-00-00_N034	39107	10PCT_10yr	22738.00	26.67	56.18	43.99	56.88	0.000442	6.68	3404.44	198.80	0.28
E100-00-00_N034	39107	2PCT_50yr	32654.00	26.67	59.94	46.53	60.84	0.000529	7.65	4808.04	2931.81	0.31
E100-00-00_N034	39107	1PCT_100yr	35835.00	26.67	61.18	47.32	62.05	0.000521	7.66	5735.94	3243.33	0.30
E100-00-00_N034	39103	10PCT_10yr	22738.00	26.67	56.19	44.09	56.87	0.000461	6.60	3443.12	480.78	0.28
E100-00-00_N034	39103	2PCT_50yr	32654.00	26.67	59.96	46.72	60.81	0.000539	7.51	5164.29	3468.82	0.30
E100-00-00_N034	39103	1PCT_100yr	35835.00	26.67	61.18	47.43	62.02	0.000533	7.58	6165.65	4399.64	0.30
E100-00-00_N034	39050.5		Bridge									
E100-00-00_N034	39010.0	10PCT_10yr	22738.00	26.67	56.02	44.09	56.71	0.000473	6.67	3409.18	442.87	0.29
E100-00-00_N034	39010.0	2PCT_50yr	32654.00	26.67	59.13	46.72	60.02	0.000593	7.72	5027.00	2013.62	0.32
E100-00-00_N034	39010.0	1PCT_100yr	35835.00	26.67	60.44	47.44	61.29	0.000551	7.65	6070.77	4025.27	0.31
E100-00-00_N034	38877.	10PCT_10yr	22738.00	26.33	55.91		56.64	0.000524	6.85	3509.62	584.84	0.30
E100-00-00_N034	38877.	2PCT_50yr	32654.00	26.33	59.18		59.84	0.000517	7.05	9023.49	2338.79	0.29
E100-00-00_N034	38877.	1PCT_100yr	35835.00	26.33	60.56		61.06	0.000409	6.47	13138.19	4166.34	0.26
E100-00-00_N034	37857.0	10PCT_10yr	22738.00	25.40	55.46		56.14	0.000439	6.65	3867.80	840.15	0.28
E100-00-00_N034	37857.0	2PCT_50yr	32654.00	25.40	58.59		59.33	0.000462	7.29	8404.08	2105.19	0.29
E100-00-00_N034	37857.0	1PCT_100yr	35835.00	25.40	60.07		60.65	0.000374	6.78	11982.71	3113.78	0.26
E100-00-00_N034	36870.0	10PCT_10yr	22738.00	24.57	55.04		55.70	0.000430	6.54	3492.33	294.82	0.28
E100-00-00_N034	36870.0	2PCT_50yr	32654.00	24.57	57.85		58.76	0.000683	7.77	5513.15	1905.54	0.33
E100-00-00_N034	36870.0	1PCT_100yr	35835.00	24.57	59.45		60.18	0.000539	7.23	8737.53	2131.32	0.30
E100-00-00_N034	36505.	10PCT_10yr	22738.00	24.44	54.92		55.52	0.000470	6.26	4293.07	1497.05	0.27
E100-00-00_N034	36505.	2PCT_50yr	32654.00	24.44	57.88		58.46	0.000465	6.57	10166.26	2694.64	0.27
E100-00-00_N034	36505.	1PCT_100yr	35835.00	24.44	59.55		59.94	0.000322	5.79	15726.61	3770.34	0.23
E100-00-00_N034	36318.0	10PCT_10yr	22738.00	24.37	54.87	41.03	55.43	0.000365	6.03	4200.30	1019.14	0.25
E100-00-00_N034	36318.0	2PCT_50yr	32654.00	24.37	57.73	43.97	58.36	0.000501	6.69	8587.31	2100.57	0.28
E100-00-00_N034	36318.0	1PCT_100yr	35835.00	24.37	59.35	44.77	59.85	0.000393	6.19	12737.37	3043.95	0.25
E100-00-00_N034	36307.0		Bridge									
E100-00-00_N034	36296.0	10PCT_10yr	22738.00	24.36	54.85		55.41	0.000367	6.05	4076.05	1015.74	0.25
E100-00-00_N034	36296.0	2PCT_50yr	32654.00	24.36	57.68		58.33	0.000511	6.75	8386.09	2081.33	0.29
E100-00-00_N034	36296.0	1PCT_100yr	35835.00	24.36	59.20		59.73	0.000415	6.34	12177.71	3023.97	0.26
E100-00-00_N034	36134.	10PCT_10yr	22738.00	24.19	54.75		55.34	0.000453	6.16	3883.02	791.36	0.26
E100-00-00_N034	36134.	2PCT_50yr	32654.00	24.19	57.44		58.20	0.000569	7.20	6650.06	1709.55	0.29
E100-00-00_N034	36134.	1PCT_100yr	35835.00	24.19	58.94		59.61	0.000472	6.91	10652.64	3510.65	0.27
E100-00-00_N034	35718.0	10PCT_10yr	23514.00	23.76	54.47	41.13	55.15	0.000435	6.61	3610.41	333.61	0.28
E100-00-00_N034	35718.0	2PCT_50yr	32990.00	23.76	56.97	43.93	57.94	0.000595	7.94	4639.05	1012.72	0.32
E100-00-00_N034	35718.0	1PCT_100yr	36356.00	23.76	58.56	44.82	59.39	0.000504	7.59	8134.92	2644.30	0.30

E100-00-00 Mitigated
HEC-RAS Output

HEC-RAS Plan: Mitigated River: E100-00-00 Reach: E100-00-00_N034 (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
E100-00-00_N034	35158.	10PCT_10yr	23514.00	22.89	54.30	40.11	54.87	0.000450	6.04	4310.56	777.41	0.26
E100-00-00_N034	35158.	2PCT_50yr	32990.00	22.89	56.87	42.86	57.54	0.000527	6.81	7383.93	1775.48	0.28
E100-00-00_N034	35158.	1PCT_100yr	36356.00	22.89	58.52	43.72	59.04	0.000402	6.31	11979.54	3278.54	0.25
E100-00-00_N034	35006.0	10PCT_10yr	23514.00	22.66	54.17	40.65	54.79	0.000394	6.32	4276.75	872.60	0.27
E100-00-00_N034	35006.0	2PCT_50yr	32990.00	22.66	56.71	43.40	57.44	0.000454	7.16	7534.76	1945.38	0.29
E100-00-00_N034	35006.0	1PCT_100yr	36356.00	22.66	58.40	44.27	58.97	0.000345	6.61	12301.03	3270.45	0.25
E100-00-00_N034	34951.5		Bridge									
E100-00-00_N034	34895.0	10PCT_10yr	23514.00	22.56	53.80	40.53	54.44	0.000411	6.43	4064.28	720.71	0.27
E100-00-00_N034	34895.0	2PCT_50yr	32990.00	22.56	56.67	43.29	57.39	0.000446	7.12	7665.65	1988.10	0.28
E100-00-00_N034	34895.0	1PCT_100yr	36356.00	22.56	58.11	44.16	58.71	0.000368	6.78	11655.86	3242.25	0.26
E100-00-00_N034	34645.	10PCT_10yr	23514.00	22.24	53.74		54.30	0.000411	6.07	4713.82	930.69	0.25
E100-00-00_N034	34645.	2PCT_50yr	32990.00	22.24	56.63		57.24	0.000406	6.66	8173.59	1923.87	0.26
E100-00-00_N034	34645.	1PCT_100yr	36356.00	22.24	58.06		58.59	0.000344	6.41	11949.02	3442.33	0.24
E100-00-00_N034	34206.0	10PCT_10yr	23514.00	21.68	53.54		54.12	0.000392	6.15	4098.06	546.84	0.26
E100-00-00_N034	34206.0	2PCT_50yr	32990.00	21.68	56.40		57.04	0.000410	6.76	9121.16	3036.19	0.27
E100-00-00_N034	34206.0	1PCT_100yr	36356.00	21.68	57.93		58.41	0.000307	6.16	14218.19	3739.29	0.24
E100-00-00_N034	33770.	10PCT_10yr	23514.00	21.56	53.64		53.90	0.000185	4.33	6845.83	1453.16	0.17
E100-00-00_N034	33770.	2PCT_50yr	32990.00	21.56	56.54		56.79	0.000189	4.62	14149.38	3026.95	0.17
E100-00-00_N034	33770.	1PCT_100yr	36356.00	21.56	58.01		58.22	0.000154	4.35	18909.15	3364.46	0.16
E100-00-00_N034	33681.0	10PCT_10yr	23514.00	21.53	53.12	39.63	53.77	0.000395	6.45	3658.29	669.61	0.27
E100-00-00_N034	33681.0	2PCT_50yr	32990.00	21.53	56.24	42.42	56.71	0.000306	6.15	11814.56	2984.60	0.24
E100-00-00_N034	33681.0	1PCT_100yr	36356.00	21.53	57.83	43.29	58.17	0.000225	5.54	16847.04	3369.49	0.21
E100-00-00_N034	33645.5		Bridge									
E100-00-00_N034	33610.0	10PCT_10yr	23514.00	21.61	51.84	39.71	52.60	0.000497	6.97	3377.54	369.67	0.30
E100-00-00_N034	33610.0	2PCT_50yr	32990.00	21.61	56.17	42.48	56.67	0.000319	6.26	11393.81	2957.44	0.24
E100-00-00_N034	33610.0	1PCT_100yr	36356.00	21.61	57.52	43.34	57.91	0.000254	5.82	15570.89	3252.69	0.22
E100-00-00_N034	33357.	10PCT_10yr	23514.00	21.41	51.74		52.42	0.000610	6.58	3579.54	245.56	0.29
E100-00-00_N034	33357.	2PCT_50yr	32990.00	21.41	55.88		56.52	0.000575	6.68	8339.13	2685.40	0.28
E100-00-00_N034	33357.	1PCT_100yr	36356.00	21.41	57.32		57.81	0.000447	6.11	12625.05	3118.51	0.25
E100-00-00_N034	32570.0	10PCT_10yr	23514.00	20.78	51.40		52.01	0.000412	6.31	3728.59	216.79	0.27
E100-00-00_N034	32570.0	2PCT_50yr	32990.00	20.78	55.58		56.12	0.000352	6.26	10715.72	3072.14	0.25
E100-00-00_N034	32570.0	1PCT_100yr	36356.00	20.78	57.07		57.47	0.000266	5.72	15742.76	3661.75	0.22
E100-00-00_N034	31583.0	10PCT_10yr	23514.00	19.35	51.06		51.62	0.000351	6.00	3955.40	261.21	0.25
E100-00-00_N034	31583.0	2PCT_50yr	32990.00	19.35	55.41		55.80	0.000238	5.53	14877.50	4598.59	0.21
E100-00-00_N034	31583.0	1PCT_100yr	36356.00	19.35	56.99		57.24	0.000163	4.81	23308.20	5927.82	0.18
E100-00-00_N034	30779.0	10PCT_10yr	23514.00	18.79	50.85		51.34	0.000306	5.72	4769.33	700.29	0.23
E100-00-00_N034	30779.0	2PCT_50yr	32990.00	18.79	55.24		55.61	0.000210	5.42	14738.11	3311.35	0.20
E100-00-00_N034	30779.0	1PCT_100yr	36356.00	18.79	56.82		57.11	0.000163	4.98	20227.60	3574.27	0.18
E100-00-00_N034	29659.	10PCT_10yr	23514.00	17.66	50.53		50.95	0.000349	5.24	5045.93	875.41	0.22
E100-00-00_N034	29659.	2PCT_50yr	32990.00	17.66	55.12		55.35	0.000197	4.38	18678.25	4567.09	0.17
E100-00-00_N034	29659.	1PCT_100yr	36356.00	17.66	56.75		56.91	0.000138	3.85	26838.95	5495.39	0.14
E100-00-00_N034	29368.0	10PCT_10yr	23514.00	17.37	50.06	35.85	50.76	0.000415	6.71	3505.08	357.22	0.27
E100-00-00_N034	29368.0	2PCT_50yr	32990.00	17.37	54.61	38.90	55.15	0.000326	6.42	11309.73	2806.81	0.24
E100-00-00_N034	29368.0	1PCT_100yr	36356.00	17.37	56.37	39.74	56.76	0.000237	5.76	16706.78	3318.00	0.20
E100-00-00_N034	29297.5		Bridge									
E100-00-00_N034	29203.0	10PCT_10yr	23514.00	17.35	49.26	35.82	50.02	0.000490	6.97	3373.61	233.01	0.29
E100-00-00_N034	29203.0	2PCT_50yr	32990.00	17.35	54.12	38.80	54.75	0.000369	6.74	10043.59	2647.04	0.25
E100-00-00_N034	29203.0	1PCT_100yr	36356.00	17.35	55.94	39.63	56.38	0.000267	6.04	15379.68	3196.70	0.22
E100-00-00_N034	28775.	10PCT_10yr	23514.00	16.90	49.21		49.66	0.000448	5.39	4395.30	467.48	0.24
E100-00-00_N034	28775.	2PCT_50yr	32990.00	16.90	54.18		54.45	0.000246	4.59	15647.87	3983.20	0.19
E100-00-00_N034	28775.	1PCT_100yr	36356.00	16.90	55.99		56.17	0.000167	4.02	23428.90	4641.46	0.16
E100-00-00_N034	28375.0	10PCT_10yr	23514.00	16.48	48.78	34.98	49.43	0.000424	6.47	3633.05	207.10	0.27
E100-00-00_N034	28375.0	2PCT_50yr	32990.00	16.48	53.83	37.81	54.29	0.000297	5.89	13182.79	3541.98	0.23
E100-00-00_N034	28375.0	1PCT_100yr	36356.00	16.48	55.77	38.76	56.07	0.000198	5.10	20735.86	4335.06	0.19
E100-00-00_N034	28357.0		Bridge									
E100-00-00_N034	28330.0	10PCT_10yr	23514.00	16.41	48.74		49.39	0.000422	6.46	3638.88	207.26	0.27
E100-00-00_N034	28330.0	2PCT_50yr	32990.00	16.41	53.81		54.26	0.000292	5.86	13356.48	3554.82	0.23
E100-00-00_N034	28330.0	1PCT_100yr	36356.00	16.41	55.70		56.00	0.000198	5.10	20733.37	4335.02	0.19
E100-00-00_N034	28190.0	10PCT_10yr	23971.00	16.18	48.66	34.64	49.32	0.000391	6.53	3669.85	193.27	0.26
E100-00-00_N034	28190.0	2PCT_50yr	33390.00	16.18	53.63	37.55	54.19	0.000285	6.38	11249.81	2933.81	0.23
E100-00-00_N034	28190.0	1PCT_100yr	36898.00	16.18	55.54	38.49	55.94	0.000208	5.74	17993.90	3934.22	0.20

E100-00-00 Mitigated
HEC-RAS Output

HEC-RAS Plan: Mitigated River: E100-00-00 Reach: E100-00-00_N034 (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
E100-00-00_N034	28152.5		Bridge									
E100-00-00_N034	28113.0	10PCT_10yr	23971.00	16.28	47.54	34.74	48.30	0.000469	6.98	3434.49	191.56	0.29
E100-00-00_N034	28113.0	2PCT_50yr	33390.00	16.28	53.36	37.61	53.97	0.000313	6.62	10206.87	2738.83	0.24
E100-00-00_N034	28113.0	1PCT_100yr	36898.00	16.28	55.23	38.56	55.68	0.000233	6.01	16407.36	3821.72	0.21
E100-00-00_N034	27982.	10PCT_10yr	23971.00	16.25	47.40		48.21	0.000586	7.21	3323.39	200.35	0.31
E100-00-00_N034	27982.	2PCT_50yr	33390.00	16.25	53.34		53.90	0.000374	6.37	10573.62	2764.38	0.25
E100-00-00_N034	27982.	1PCT_100yr	36898.00	16.25	55.23		55.62	0.000265	5.69	16381.12	3262.12	0.21
E100-00-00_N034	27429.0	10PCT_10yr	23971.00	16.12	47.16		47.89	0.000499	6.86	3493.89	205.91	0.29
E100-00-00_N034	27429.0	2PCT_50yr	33390.00	16.12	53.17		53.70	0.000368	6.17	10174.17	2566.49	0.25
E100-00-00_N034	27429.0	1PCT_100yr	36898.00	16.12	55.11		55.49	0.000258	5.50	15537.49	3054.73	0.21
E100-00-00_N034	26598.	10PCT_10yr	23971.00	15.35	46.81	33.81	47.47	0.000467	6.53	3670.75	217.23	0.28
E100-00-00_N034	26598.	2PCT_50yr	33390.00	15.35	52.90	36.39	53.37	0.000303	5.79	8273.90	4107.52	0.23
E100-00-00_N034	26598.	1PCT_100yr	36898.00	15.35	54.86	37.26	55.24	0.000232	5.39	10864.92	4782.02	0.20
E100-00-00_N034	26498.0	10PCT_10yr	23971.00	15.26	46.76	33.73	47.40	0.000446	6.41	3737.93	218.79	0.27
E100-00-00_N034	26498.0	2PCT_50yr	33390.00	15.26	52.82	36.28	53.33	0.000301	5.95	7563.03	3992.31	0.23
E100-00-00_N034	26498.0	1PCT_100yr	36898.00	15.26	54.78	37.14	55.20	0.000239	5.62	10106.15	4812.46	0.20
E100-00-00_N034	26432.5		Bridge									
E100-00-00_N034	26366.0	10PCT_10yr	23971.00	15.16	46.65	33.62	47.29	0.000447	6.42	3734.23	218.69	0.27
E100-00-00_N034	26366.0	2PCT_50yr	33390.00	15.16	52.35	36.18	52.89	0.000328	6.13	7135.37	3199.23	0.24
E100-00-00_N034	26366.0	1PCT_100yr	36898.00	15.16	54.47	37.04	54.91	0.000250	5.72	9810.41	4722.63	0.21
E100-00-00_N034	26140.	10PCT_10yr	23971.00	14.97	46.55	33.48	47.18	0.000467	6.39	6368.74	468.62	0.28
E100-00-00_N034	26140.	2PCT_50yr	33390.00	14.97	52.32	36.14	52.79	0.000269	5.88	12712.57	2910.68	0.22
E100-00-00_N034	26140.	1PCT_100yr	36898.00	14.97	54.46	37.01	54.83	0.000200	5.39	16720.15	4717.75	0.19
E100-00-00_N034	25536.0	10PCT_10yr	23971.00	14.48	46.26	33.42	46.89	0.000457	6.45	6334.78	627.38	0.28
E100-00-00_N034	25536.0	2PCT_50yr	33390.00	14.48	52.11	36.09	52.62	0.000294	6.02	12287.73	1555.01	0.23
E100-00-00_N034	25536.0	1PCT_100yr	36898.00	14.48	54.31	36.96	54.71	0.000220	5.55	16502.42	4547.99	0.20
E100-00-00_N034	25132.	10PCT_10yr	23971.00	14.29	46.10	33.65	46.71	0.000424	6.38	4229.99	368.66	0.28
E100-00-00_N034	25132.	2PCT_50yr	33390.00	14.29	51.95	36.56	52.50	0.000270	6.23	7479.37	1286.11	0.23
E100-00-00_N034	25132.	1PCT_100yr	36898.00	14.29	54.16	37.38	54.61	0.000208	5.82	11311.08	4474.09	0.21
E100-00-00_N034	24817.0	10PCT_10yr	23971.00	14.14	45.68	33.87	46.48	0.000718	7.18	3340.62	227.94	0.33
E100-00-00_N034	24817.0	2PCT_50yr	33390.00	14.14	51.59	36.61	52.33	0.000475	6.94	4948.90	717.72	0.28
E100-00-00_N034	24817.0	1PCT_100yr	36898.00	14.14	53.72	37.67	54.44	0.000405	6.87	5609.88	4729.09	0.26
E100-00-00_N034	24789.0		Bridge									
E100-00-00_N034	24758.0	10PCT_10yr	23971.00	13.76	45.14	33.49	45.96	0.000725	7.27	3296.60	223.57	0.33
E100-00-00_N034	24758.0	2PCT_50yr	33390.00	13.76	51.30	36.23	52.04	0.000473	6.93	4940.88	662.78	0.28
E100-00-00_N034	24758.0	1PCT_100yr	36898.00	13.76	53.20	37.23	53.94	0.000419	6.94	5526.60	3506.29	0.26
E100-00-00_N034	24636.	10PCT_10yr	23971.00	13.61	45.17		45.79	0.000479	6.44	4074.68	408.37	0.28
E100-00-00_N034	24636.	2PCT_50yr	33390.00	13.61	51.43		51.83	0.000284	5.44	8252.30	1348.44	0.21
E100-00-00_N034	24636.	1PCT_100yr	36898.00	13.61	53.37		53.70	0.000221	5.10	11496.00	2246.62	0.19
E100-00-00_N034	23934.0	10PCT_10yr	23971.00	12.75	44.81		45.40	0.000603	6.17	3887.34	282.25	0.29
E100-00-00_N034	23934.0	2PCT_50yr	33390.00	12.75	51.11		51.60	0.000346	5.67	6993.14	960.41	0.23
E100-00-00_N034	23934.0	1PCT_100yr	36898.00	12.75	53.07		53.52	0.000285	5.49	9496.36	1567.03	0.21
E100-00-00_N034	23550.0	10PCT_10yr	23971.00	12.77	44.68	30.87	45.19	0.000370	5.75	4167.10	251.99	0.25
E100-00-00_N034	23550.0	2PCT_50yr	33390.00	12.77	50.99	33.38	51.46	0.000314	5.52	6445.67	650.65	0.22
E100-00-00_N034	23550.0	1PCT_100yr	36898.00	12.77	52.96	34.21	53.41	0.000268	5.44	8017.05	936.79	0.21
E100-00-00_N034	23506.5		Bridge									
E100-00-00_N034	23444.0	10PCT_10yr	23971.00	12.69	44.48	30.78	45.00	0.000372	5.79	4136.71	249.27	0.25
E100-00-00_N034	23444.0	2PCT_50yr	33390.00	12.69	50.84	33.30	51.31	0.000319	5.54	6398.53	633.51	0.22
E100-00-00_N034	23444.0	1PCT_100yr	36898.00	12.69	52.80	34.13	53.25	0.000272	5.47	7949.51	914.29	0.21
E100-00-00_N034	23180.	10PCT_10yr	23971.00	12.46	44.22		44.86	0.000414	6.45	4015.89	478.59	0.27
E100-00-00_N034	23180.	2PCT_50yr	33390.00	12.46	50.79		51.22	0.000212	5.66	9602.06	1254.73	0.20
E100-00-00_N034	23180.	1PCT_100yr	36898.00	12.46	52.78		53.15	0.000175	5.43	12610.85	2165.78	0.19
E100-00-00_N034	22983.	10PCT_10yr	23971.00	12.29	43.91		44.74	0.000620	7.33	3406.28	413.80	0.32
E100-00-00_N034	22983.	2PCT_50yr	33390.00	12.29	50.70		51.17	0.000286	5.98	9486.72	1665.62	0.23
E100-00-00_N034	22983.	1PCT_100yr	36898.00	12.29	52.74		53.11	0.000214	5.50	13124.49	1861.63	0.20
E100-00-00_N034	22834.0	10PCT_10yr	23971.00	12.16	43.77	32.22	44.64	0.000569	7.49	3198.36	421.75	0.32
E100-00-00_N034	22834.0	2PCT_50yr	33390.00	12.16	50.57	35.11	51.11	0.000302	6.33	10237.59	1735.36	0.24
E100-00-00_N034	22834.0	1PCT_100yr	36898.00	12.16	52.62	36.01	53.05	0.000233	5.89	14217.21	2385.55	0.21
E100-00-00_N034	22796.5		Bridge									
E100-00-00_N034	22758.0	10PCT_10yr	23971.00	12.11	43.56	32.17	44.45	0.000581	7.55	3278.99	405.45	0.33
E100-00-00_N034	22758.0	2PCT_50yr	33390.00	12.11	50.35	35.02	50.91	0.000315	6.43	9949.57	1720.70	0.24
E100-00-00_N034	22758.0	1PCT_100yr	36898.00	12.11	52.49	35.94	52.93	0.000237	5.94	14024.21	2312.03	0.21

HEC-RAS Plan: Mitigated River: E100-00-00 Reach: E100-00-00_N034 (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
E100-00-00_N034	22610.	10PCT_10yr	23971.00	11.92	43.55		44.30	0.000540	6.99	3698.63	424.08	0.30
E100-00-00_N034	22610.	2PCT_50yr	33390.00	11.92	50.38		50.81	0.000245	5.75	9905.03	1935.17	0.21
E100-00-00_N034	22610.	1PCT_100yr	36898.00	11.92	52.53		52.86	0.000184	5.28	14346.78	2519.38	0.19
E100-00-00_N034	22224.0	10PCT_10yr	23971.00	11.41	43.60		43.98	0.000492	5.24	6232.31	680.14	0.24
E100-00-00_N034	22224.0	2PCT_50yr	33390.00	11.41	50.42		50.67	0.000209	4.42	13329.44	1973.84	0.17
E100-00-00_N034	22224.0	1PCT_100yr	36898.00	11.41	52.56		52.75	0.000158	4.10	18533.30	2756.42	0.15
E100-00-00_N034	21444.0	10PCT_10yr	23971.00	10.52	42.78		43.54	0.000595	6.96	3445.55	227.27	0.31
E100-00-00_N034	21444.0	2PCT_50yr	33390.00	10.52	50.00		50.47	0.000276	5.83	9512.69	1568.96	0.22
E100-00-00_N034	21444.0	1PCT_100yr	36898.00	10.52	52.22		52.60	0.000211	5.43	13576.60	2131.63	0.19
E100-00-00_N034	20746.0	10PCT_10yr	23971.00	10.00	42.34		43.10	0.000659	7.01	3421.16	230.32	0.32
E100-00-00_N034	20746.0	2PCT_50yr	33390.00	10.00	49.72		50.12	0.001022	5.34	8915.21	1859.14	0.23
E100-00-00_N034	20746.0	1PCT_100yr	36898.00	10.00	52.09		52.34	0.000597	4.45	13621.69	2237.28	0.18
E100-00-00_N034	20644.0	10PCT_10yr	23971.00	9.95	42.33	30.28	42.99	0.000486	6.60	4418.15	666.16	0.29
E100-00-00_N034	20644.0	2PCT_50yr	33390.00	9.95	49.73	32.94	50.03	0.000174	4.98	13208.71	1848.07	0.18
E100-00-00_N034	20644.0	1PCT_100yr	36898.00	9.95	52.08	33.85	52.30	0.000127	4.54	17702.04	2040.78	0.16
E100-00-00_N034	20633.0		Bridge									
E100-00-00_N034	20622.0	10PCT_10yr	23971.00	9.95	42.15		42.83	0.000505	6.69	4280.29	659.28	0.29
E100-00-00_N034	20622.0	2PCT_50yr	33390.00	9.95	49.61		49.91	0.000178	5.03	12965.04	1844.89	0.18
E100-00-00_N034	20622.0	1PCT_100yr	36898.00	9.95	51.97		52.20	0.000130	4.58	17469.44	2030.19	0.16
E100-00-00_N034	20521.	10PCT_10yr	23971.00	9.91	42.08		42.78	0.000478	6.83	4338.32	566.33	0.29
E100-00-00_N034	20521.	2PCT_50yr	33390.00	9.91	49.52		49.88	0.000184	5.41	12256.76	1686.50	0.19
E100-00-00_N034	20521.	1PCT_100yr	36898.00	9.91	51.90		52.17	0.000136	4.95	16356.67	1763.62	0.17
E100-00-00_N034	19917.0	10PCT_10yr	23971.00	9.66	41.68		42.45	0.000590	7.06	4710.00	391.42	0.31
E100-00-00_N034	19917.0	2PCT_50yr	33390.00	9.66	49.05		49.70	0.000342	6.52	8221.02	792.74	0.24
E100-00-00_N034	19917.0	1PCT_100yr	36898.00	9.66	51.43		52.03	0.000284	6.35	10415.78	1052.94	0.23
E100-00-00_N034	19463.0	10PCT_10yr	23971.00	9.25	41.44		42.17	0.000574	6.96	7783.23	524.83	0.31
E100-00-00_N034	19463.0	2PCT_50yr	33390.00	9.25	48.96		49.52	0.000321	6.22	13457.75	1325.65	0.24
E100-00-00_N034	19463.0	1PCT_100yr	36898.00	9.25	51.36		51.88	0.000262	6.04	17453.13	1911.76	0.22
E100-00-00_N034	18377.	10PCT_10yr	23971.00	7.06	41.00	27.08	41.64	0.000379	6.47	3723.36	232.88	0.27
E100-00-00_N034	18377.	2PCT_50yr	33390.00	7.06	48.74	29.93	49.24	0.000191	5.85	8424.73	1696.33	0.20
E100-00-00_N034	18377.	1PCT_100yr	36898.00	7.06	51.26	30.90	51.63	0.000141	5.35	14756.82	2091.51	0.18
E100-00-00_N034	18234.0	10PCT_10yr	23971.00	6.77	41.11	27.61	41.44	0.000274	4.63	5181.96	307.24	0.20
E100-00-00_N034	18234.0	2PCT_50yr	33390.00	6.77	48.83	29.74	49.09	0.000153	4.22	9462.28	1325.06	0.15
E100-00-00_N034	18234.0	1PCT_100yr	36898.00	6.77	51.31	30.43	51.54	0.000119	3.99	14230.33	1753.47	0.14
E100-00-00_N034	18220.0		Bridge									
E100-00-00_N034	18199.0	10PCT_10yr	23971.00	6.70	39.55	27.55	39.95	0.000357	5.07	4729.60	300.60	0.23
E100-00-00_N034	18199.0	2PCT_50yr	33390.00	6.70	45.90	29.67	46.27	0.000246	4.92	7349.06	645.48	0.19
E100-00-00_N034	18199.0	1PCT_100yr	36898.00	6.70	47.60	30.32	47.98	0.000226	4.96	8507.08	1179.27	0.19
E100-00-00_N034	18176.0	10PCT_10yr	23971.00	6.79	39.15	27.94	39.85	0.000553	6.72	3568.46	224.68	0.30
E100-00-00_N034	18176.0	2PCT_50yr	33390.00	6.79	45.59	30.34	46.20	0.000365	6.33	6421.05	849.26	0.25
E100-00-00_N034	18176.0	1PCT_100yr	36898.00	6.79	47.33	31.14	47.91	0.000322	6.27	7870.89	1370.85	0.23
E100-00-00_N034	18138.0		Bridge									
E100-00-00_N034	18082.0	10PCT_10yr	23971.00	6.87	38.38	28.02	39.16	0.000631	7.09	3381.56	219.05	0.32
E100-00-00_N034	18082.0	2PCT_50yr	33390.00	6.87	43.52	30.42	44.33	0.000548	7.24	4905.58	541.11	0.30
E100-00-00_N034	18082.0	1PCT_100yr	36898.00	6.87	44.86	31.22	45.69	0.000522	7.36	5772.83	798.70	0.29
E100-00-00_N034	17905.	10PCT_10yr	23971.00	6.86	38.31		39.01	0.000575	6.73	3570.79	242.36	0.30
E100-00-00_N034	17905.	2PCT_50yr	33390.00	6.86	43.50		44.18	0.000421	6.73	6452.63	957.93	0.27
E100-00-00_N034	17905.	1PCT_100yr	36898.00	6.86	44.86		45.52	0.000389	6.77	7863.06	1133.08	0.26
E100-00-00_N034	17756.0	10PCT_10yr	23971.00	6.85	38.23	27.61	38.91	0.000682	6.63	3616.35	271.67	0.32
E100-00-00_N034	17756.0	2PCT_50yr	33390.00	6.85	43.49	30.14	44.06	0.000432	6.23	6732.73	1090.54	0.26
E100-00-00_N034	17756.0	1PCT_100yr	36898.00	6.85	44.85	30.98	45.41	0.000391	6.22	7914.89	1197.91	0.25
E100-00-00_N034	17678.5		Bridge									
E100-00-00_N034	17597.0	10PCT_10yr	23971.00	6.35	36.71	27.11	37.51	0.000796	7.16	3348.15	256.94	0.35
E100-00-00_N034	17597.0	2PCT_50yr	33390.00	6.35	41.96	29.64	42.68	0.000564	6.83	5315.57	634.19	0.30
E100-00-00_N034	17597.0	1PCT_100yr	36898.00	6.35	44.02	30.48	44.67	0.000444	6.56	6767.23	764.04	0.27
E100-00-00_N034	17318.	10PCT_10yr	23971.00	6.35	36.31		37.26	0.000708	7.79	3078.99	203.00	0.35
E100-00-00_N034	17318.	2PCT_50yr	33390.00	6.35	41.46		42.43	0.000666	7.93	4208.18	239.02	0.33
E100-00-00_N034	17318.	1PCT_100yr	36898.00	6.35	43.48		44.43	0.000608	7.84	4754.08	352.72	0.32
E100-00-00_N034	16831.0	10PCT_10yr	24190.00	6.34	36.38	26.25	37.01	0.000173	6.35	3806.82	320.02	0.32
E100-00-00_N034	16831.0	2PCT_50yr	33549.00	6.34	41.64	28.53	42.16	0.000150	5.78	5802.00	446.86	0.28
E100-00-00_N034	16831.0	1PCT_100yr	37079.00	6.34	43.70	29.30	44.16	0.000137	5.47	6776.28	502.25	0.26

E100-00-00 Mitigated
HEC-RAS Output

HEC-RAS Plan: Mitigated River: E100-00-00 Reach: E100-00-00_N034 (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
E100-00-00_N034	15795.0	10PCT_10yr	24190.00	4.84	36.34		36.67	0.000369	4.55	5316.59	389.22	0.22
E100-00-00_N034	15795.0	2PCT_50yr	33549.00	4.84	41.58		41.89	0.000274	4.45	7716.42	558.23	0.19
E100-00-00_N034	15795.0	1PCT_100yr	37079.00	4.84	43.63		43.93	0.000235	4.36	9072.47	788.75	0.18
E100-00-00_N034	15278.	10PCT_10yr	24190.00	4.41	35.73		36.45	0.000315	6.80	3559.81	227.84	0.30
E100-00-00_N034	15278.	2PCT_50yr	33549.00	4.41	40.97		41.71	0.000261	6.93	5229.18	638.44	0.27
E100-00-00_N034	15278.	1PCT_100yr	37079.00	4.41	43.10		43.77	0.000229	6.71	6619.27	668.32	0.25
E100-00-00_N034	14977.0	10PCT_10yr	24190.00	4.16	35.76	24.22	36.32	0.000100	6.00	4032.39	258.64	0.27
E100-00-00_N034	14977.0	2PCT_50yr	33549.00	4.16	41.01	26.58	41.59	0.000079	6.12	5812.51	665.55	0.25
E100-00-00_N034	14977.0	1PCT_100yr	37079.00	4.16	43.12	27.34	43.68	0.000067	6.04	7442.13	706.66	0.23
E100-00-00_N034	14937.0		Bridge									
E100-00-00_N034	14897.0	10PCT_10yr	24190.00	3.39	34.95	23.45	35.51	0.000101	6.02	4020.40	258.37	0.27
E100-00-00_N034	14897.0	2PCT_50yr	33549.00	3.39	40.57	25.79	41.14	0.000075	6.03	5779.20	593.61	0.24
E100-00-00_N034	14897.0	1PCT_100yr	37079.00	3.39	42.49	26.56	43.05	0.000066	6.02	7213.29	696.39	0.23
E100-00-00_N034	14590.0	10PCT_10yr	24190.00	3.45	34.42	23.61	35.36	0.000166	7.77	3112.45	194.64	0.34
E100-00-00_N034	14590.0	2PCT_50yr	33549.00	3.45	40.05	26.40	40.99	0.000131	7.80	4431.82	445.73	0.31
E100-00-00_N034	14590.0	1PCT_100yr	37079.00	3.45	41.97	27.32	42.90	0.000115	7.79	5545.79	817.76	0.30
E100-00-00_N034	14562.0		Bridge									
E100-00-00_N034	14532.0	10PCT_10yr	24190.00	3.41	34.29	23.57	35.24	0.000672	7.81	3096.22	194.17	0.34
E100-00-00_N034	14532.0	2PCT_50yr	33549.00	3.41	38.80	26.36	39.88	0.000687	8.33	4045.04	336.47	0.34
E100-00-00_N034	14532.0	1PCT_100yr	37079.00	3.41	40.72	27.24	41.78	0.000617	8.28	4713.96	628.03	0.33
E100-00-00_N034	14354.0	10PCT_10yr	24190.00	3.29	34.55	22.85	34.92	0.000098	4.89	4943.43	477.35	0.21
E100-00-00_N034	14354.0	2PCT_50yr	33549.00	3.29	39.18	24.64	39.44	0.000083	4.07	8427.65	610.39	0.18
E100-00-00_N034	14354.0	1PCT_100yr	37079.00	3.29	41.10	25.22	41.35	0.000077	4.01	9726.59	749.06	0.17
E100-00-00_N034	13924.0	10PCT_10yr	24190.00	3.18	34.05	22.65	34.74	0.000501	6.67	3627.21	320.34	0.29
E100-00-00_N034	13924.0	2PCT_50yr	33549.00	3.18	38.54	24.94	39.23	0.000444	6.87	5466.06	367.43	0.27
E100-00-00_N034	13924.0	1PCT_100yr	37079.00	3.18	40.48	25.73	41.16	0.000401	6.80	6197.89	385.82	0.26
E100-00-00_N034	13909.5		Bridge									
E100-00-00_N034	13898.0	10PCT_10yr	24190.00	2.95	33.75	22.42	34.44	0.000507	6.70	3611.25	317.70	0.29
E100-00-00_N034	13898.0	2PCT_50yr	33549.00	2.95	38.26	24.71	38.96	0.000449	6.91	5417.44	365.48	0.27
E100-00-00_N034	13898.0	1PCT_100yr	37079.00	2.95	40.22	25.50	40.90	0.000405	6.83	6152.67	383.53	0.26
E100-00-00_N034	13494.	10PCT_10yr	24190.00	2.47	33.60	22.39	34.14	0.000634	5.91	4094.77	394.49	0.27
E100-00-00_N034	13494.	2PCT_50yr	33549.00	2.47	38.21	24.61	38.63	0.000514	5.46	6782.84	450.14	0.23
E100-00-00_N034	13494.	1PCT_100yr	37079.00	2.47	40.19	25.40	40.59	0.000480	5.31	7708.84	508.04	0.22
E100-00-00_N034	13220.0	10PCT_10yr	24190.00	2.15	33.66	22.30	33.95	0.000100	4.32	5597.18	566.29	0.19
E100-00-00_N034	13220.0	2PCT_50yr	33549.00	2.15	38.23	24.00	38.51	0.000088	4.37	9156.64	736.41	0.18
E100-00-00_N034	13220.0	1PCT_100yr	37079.00	2.15	40.21	24.49	40.48	0.000079	4.28	10666.33	812.56	0.17
E100-00-00_N034	13182.5		Bridge									
E100-00-00_N034	13143.0	10PCT_10yr	24190.00	2.15	33.60	22.30	33.87	0.000097	4.22	6109.96	499.77	0.19
E100-00-00_N034	13143.0	2PCT_50yr	33549.00	2.15	37.96	24.00	38.25	0.000092	4.45	8470.47	597.71	0.18
E100-00-00_N034	13143.0	1PCT_100yr	37079.00	2.15	39.95	24.46	40.24	0.000084	4.40	9741.72	700.31	0.17
E100-00-00_N034	12698.	10PCT_10yr	24190.00	1.87	33.24		33.73	0.000372	5.63	4294.25	340.58	0.28
E100-00-00_N034	12698.	2PCT_50yr	33549.00	1.87	37.61		38.12	0.000324	5.72	5867.69	379.29	0.26
E100-00-00_N034	12698.	1PCT_100yr	37079.00	1.87	39.64		40.12	0.000294	5.56	6671.02	460.67	0.24
E100-00-00_N034	12066.0	10PCT_10yr	24190.00	1.47	33.15		33.46	0.000312	4.40	5493.94	377.19	0.20
E100-00-00_N034	12066.0	2PCT_50yr	33549.00	1.47	37.54		37.86	0.000324	4.58	7328.85	467.63	0.20
E100-00-00_N034	12066.0	1PCT_100yr	37079.00	1.47	39.58		39.89	0.000288	4.46	8313.32	496.96	0.19
E100-00-00_N034	11546.0	10PCT_10yr	24190.00	0.90	33.11	21.05	33.36	0.000095	4.01	6185.92	584.42	0.20
E100-00-00_N034	11546.0	2PCT_50yr	33549.00	0.90	37.52	22.94	37.76	0.000084	3.99	9777.65	986.40	0.17
E100-00-00_N034	11546.0	1PCT_100yr	37079.00	0.90	39.57	23.58	39.78	0.000072	3.81	11927.60	1227.19	0.16
E100-00-00_N034	11021.	10PCT_10yr	24190.00	0.63	33.11	20.49	33.30	0.000075	3.51	6893.72	724.95	0.17
E100-00-00_N034	11021.	2PCT_50yr	33549.00	0.63	37.50	22.46	37.71	0.000072	3.63	9254.67	947.80	0.16
E100-00-00_N034	11021.	1PCT_100yr	37079.00	0.63	39.55	23.04	39.74	0.000066	3.57	10608.89	1321.34	0.15
E100-00-00_N034	10908.0	10PCT_10yr	24190.00	0.57	33.13	20.63	33.27	0.000067	2.94	8235.10	871.17	0.15
E100-00-00_N034	10908.0	2PCT_50yr	33549.00	0.57	37.53	22.63	37.67	0.000061	2.97	11537.30	1163.77	0.13
E100-00-00_N034	10908.0	1PCT_100yr	37079.00	0.57	39.57	23.65	39.70	0.000055	2.90	13830.68	1654.30	0.12
E100-00-00_N034	10852.5		Bridge									
E100-00-00_N034	10804.0	10PCT_10yr	24190.00	0.45	32.99	20.51	33.13	0.000067	2.94	8220.87	870.63	0.15
E100-00-00_N034	10804.0	2PCT_50yr	33549.00	0.45	37.51	22.39	37.65	0.000060	2.95	11633.43	1173.78	0.13
E100-00-00_N034	10804.0	1PCT_100yr	37079.00	0.45	39.55	23.53	39.68	0.000054	2.88	13974.46	1676.76	0.12
E100-00-00_N034	10643.	10PCT_10yr	24190.00	0.14	32.47	18.84	32.99	0.000350	5.81	4344.68	370.26	0.25
E100-00-00_N034	10643.	2PCT_50yr	33549.00	0.14	36.97	21.35	37.51	0.000308	6.05	6108.40	641.87	0.24
E100-00-00_N034	10643.	1PCT_100yr	37079.00	0.14	39.05	22.18	39.55	0.000270	5.91	7225.86	968.78	0.22

E100-00-00 Mitigated
HEC-RAS Output

HEC-RAS Plan: Mitigated River: E100-00-00 Reach: E100-00-00_N034 (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
E100-00-00_N034	9779.0	10PCT_10yr	24190.00	-1.51	32.55	18.29	32.78	0.000075	3.91	7079.63	591.12	0.17
E100-00-00_N034	9779.0	2PCT_50yr	33549.00	-1.51	37.05	20.35	37.30	0.000073	4.12	10061.74	940.52	0.16
E100-00-00_N034	9779.0	1PCT_100yr	37079.00	-1.51	39.13	21.10	39.37	0.000066	4.05	11857.44	1092.25	0.15
E100-00-00_N034	8532.0	10PCT_10yr	24190.00	-1.76	32.63	17.25	32.67	0.000025	1.70	14235.68	872.18	0.07
E100-00-00_N034	8532.0	2PCT_50yr	33549.00	-1.76	37.14	18.10	37.20	0.000024	1.86	18371.33	1166.63	0.07
E100-00-00_N034	8532.0	1PCT_100yr	37079.00	-1.76	39.21	18.38	39.27	0.000022	1.87	20597.64	1422.51	0.07
E100-00-00_N034	8140.	10PCT_10yr	24190.00	-2.43	32.60		32.65	0.000212	1.78	14458.82	1142.14	0.08
E100-00-00_N034	8140.	2PCT_50yr	33549.00	-2.43	37.13		37.18	0.000167	1.85	20365.24	1389.88	0.07
E100-00-00_N034	8140.	1PCT_100yr	37079.00	-2.43	39.20		39.25	0.000143	1.82	23374.24	1535.71	0.07
E100-00-00_N034	7649.0	10PCT_10yr	24190.00	-3.26	32.40	16.61	32.57	0.000047	3.56	12671.38	1364.40	0.14
E100-00-00_N034	7649.0	2PCT_50yr	33549.00	-3.26	36.93	19.18	37.10	0.000043	3.69	19379.78	1727.68	0.13
E100-00-00_N034	7649.0	1PCT_100yr	37079.00	-3.26	39.03	19.75	39.18	0.000038	3.58	22793.62	1769.06	0.12
E100-00-00_N034	7608.5		Bridge									
E100-00-00_N034	7568.0	10PCT_10yr	24190.00	-3.15	32.35	16.62	32.53	0.000049	3.60	12463.59	1361.17	0.14
E100-00-00_N034	7568.0	2PCT_50yr	33549.00	-3.15	36.92	19.18	37.10	0.000044	3.71	19187.15	1725.32	0.13
E100-00-00_N034	7568.0	1PCT_100yr	37079.00	-3.15	38.99	19.73	39.15	0.000039	3.61	22545.13	1766.07	0.12
E100-00-00_N034	7546.0	10PCT_10yr	24190.00	-3.16	32.36	16.59	32.53	0.000047	3.53	11391.01	1382.22	0.14
E100-00-00_N034	7546.0	2PCT_50yr	33549.00	-3.16	36.94	19.17	37.09	0.000040	3.53	18790.66	1721.42	0.13
E100-00-00_N034	7546.0	1PCT_100yr	37079.00	-3.16	39.00	19.73	39.14	0.000035	3.40	22339.82	1805.88	0.12
E100-00-00_N034	7535.5		Bridge									
E100-00-00_N034	7529.0	10PCT_10yr	24190.00	-3.16	32.32	16.58	32.50	0.000048	3.54	11343.61	1380.95	0.14
E100-00-00_N034	7529.0	2PCT_50yr	33549.00	-3.16	36.88	19.03	37.04	0.000041	3.54	18699.69	1720.20	0.13
E100-00-00_N034	7529.0	1PCT_100yr	37079.00	-3.16	38.95	19.70	39.09	0.000035	3.41	22253.81	1803.92	0.12
E100-00-00_N034	7353.	10PCT_10yr	24190.00	-3.18	32.27		32.48	0.000060	3.68	9201.12	1053.77	0.15
E100-00-00_N034	7353.	2PCT_50yr	33549.00	-3.18	36.81		37.02	0.000057	3.84	15700.84	1778.01	0.14
E100-00-00_N034	7353.	1PCT_100yr	37079.00	-3.18	38.89		39.07	0.000049	3.69	19602.98	1983.52	0.13
E100-00-00_N034	6975.0	10PCT_10yr	24190.00	-3.22	32.32	16.76	32.39	0.000047	2.25	11105.02	919.44	0.10
E100-00-00_N034	6975.0	2PCT_50yr	33549.00	-3.22	36.85	18.02	36.94	0.000044	2.39	15973.82	1024.60	0.09
E100-00-00_N034	6975.0	1PCT_100yr	37079.00	-3.22	38.92	18.40	39.01	0.000040	2.37	18130.56	1108.17	0.09
E100-00-00_N034	6935.0		Bridge									
E100-00-00_N034	6898.0	10PCT_10yr	32270.00	-4.23	32.29	16.89	32.41	0.000075	2.83	12070.40	919.12	0.12
E100-00-00_N034	6898.0	2PCT_50yr	43493.00	-4.23	36.82	18.12	36.95	0.000069	2.97	16564.12	1024.45	0.11
E100-00-00_N034	6898.0	1PCT_100yr	48373.00	-4.23	38.89	18.61	39.03	0.000065	2.98	18720.37	1106.34	0.11
E100-00-00_N034	6775.	10PCT_10yr	32270.00	-4.30	32.26	18.00	32.40	0.000073	2.92	11256.53	785.83	0.12
E100-00-00_N034	6775.	2PCT_50yr	43493.00	-4.30	36.80	19.13	36.94	0.000068	3.05	15105.48	885.07	0.12
E100-00-00_N034	6775.	1PCT_100yr	48373.00	-4.30	38.87	19.59	39.01	0.000064	3.05	16974.86	1050.00	0.11
E100-00-00_N034	6473.0	10PCT_10yr	32270.00	-4.46	32.15	17.13	32.34	0.000276	3.50	9276.53	778.90	0.15
E100-00-00_N034	6473.0	2PCT_50yr	43493.00	-4.46	36.71	18.88	36.89	0.000207	3.54	13732.36	1163.81	0.13
E100-00-00_N034	6473.0	1PCT_100yr	48373.00	-4.46	38.80	19.34	38.97	0.000177	3.48	15940.70	1351.05	0.12
E100-00-00_N034	6448.0		Bridge									
E100-00-00_N034	6423.0	10PCT_10yr	32270.00	-4.33	32.12	17.26	32.32	0.000282	3.53	9173.39	745.36	0.15
E100-00-00_N034	6423.0	2PCT_50yr	43493.00	-4.33	36.68	19.00	36.87	0.000213	3.57	13568.37	1160.96	0.13
E100-00-00_N034	6423.0	1PCT_100yr	48373.00	-4.33	38.78	19.48	38.96	0.000182	3.51	15778.09	1301.26	0.13
E100-00-00_N034	6174.0	10PCT_10yr	32270.00	-4.69	32.07	17.97	32.25	0.000155	3.99	12130.11	978.31	0.16
E100-00-00_N034	6174.0	2PCT_50yr	43493.00	-4.69	36.65	20.14	36.81	0.000119	3.92	17429.41	1168.84	0.14
E100-00-00_N034	6174.0	1PCT_100yr	48373.00	-4.69	38.75	20.92	38.90	0.000103	3.85	19902.44	1191.91	0.13
E100-00-00_N034	6128.0		Bridge									
E100-00-00_N034	6068.0	10PCT_10yr	32270.00	-3.96	32.02	18.69	32.20	0.000168	4.08	11900.41	974.70	0.16
E100-00-00_N034	6068.0	2PCT_50yr	43493.00	-3.96	36.60	20.25	36.76	0.000127	3.97	17173.63	1168.21	0.14
E100-00-00_N034	6068.0	1PCT_100yr	48373.00	-3.96	38.69	21.82	38.84	0.000109	3.90	19642.81	1191.26	0.14
E100-00-00_N034	5525.0	10PCT_10yr	32270.00	-3.15	31.99	17.19	32.10	0.000104	2.62	12317.44	755.28	0.11
E100-00-00_N034	5525.0	2PCT_50yr	43493.00	-3.15	36.57	18.50	36.69	0.000088	2.75	15835.27	782.95	0.11
E100-00-00_N034	5525.0	1PCT_100yr	48373.00	-3.15	38.66	19.01	38.78	0.000080	2.77	17489.53	809.80	0.10
E100-00-00_N034	4994.0	10PCT_10yr	32270.00	-3.09	31.77	15.99	31.99	0.000195	3.79	9234.94	620.33	0.15
E100-00-00_N034	4994.0	2PCT_50yr	43493.00	-3.09	36.34	17.48	36.59	0.000169	4.05	12170.82	664.72	0.14
E100-00-00_N034	4994.0	1PCT_100yr	48373.00	-3.09	38.44	18.10	38.69	0.000156	4.09	13585.52	685.06	0.14
E100-00-00_N034	4980.0		Bridge									
E100-00-00_N034	4961.0	10PCT_10yr	32270.00	-3.03	31.48	16.06	31.70	0.000208	3.87	9014.01	616.86	0.15
E100-00-00_N034	4961.0	2PCT_50yr	43493.00	-3.03	36.24	17.54	36.48	0.000173	4.08	12060.35	663.10	0.15
E100-00-00_N034	4961.0	1PCT_100yr	48373.00	-3.03	38.36	18.17	38.61	0.000159	4.12	13489.54	683.70	0.14

E100-00-00 Mitigated
HEC-RAS Output

HEC-RAS Plan: Mitigated River: E100-00-00 Reach: E100-00-00_N034 (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
E100-00-00_N034	4812.0	10PCT_10yr	32270.00	-3.49	31.27	15.61	31.62	0.000698	4.72	6841.83	493.89	0.22
E100-00-00_N034	4812.0	2PCT_50yr	43493.00	-3.49	36.07	17.46	36.41	0.000551	4.68	9302.56	567.61	0.20
E100-00-00_N034	4812.0	1PCT_100yr	48373.00	-3.49	38.21	18.21	38.54	0.000500	4.62	10467.97	683.76	0.19
E100-00-00_N034	4774.5		Bridge									
E100-00-00_N034	4687.0	10PCT_10yr	32270.00	-4.67	31.13	14.43	31.43	0.000568	4.39	7356.39	501.12	0.20
E100-00-00_N034	4687.0	2PCT_50yr	43493.00	-4.67	35.95	16.29	36.25	0.000471	4.41	9870.86	569.70	0.18
E100-00-00_N034	4687.0	1PCT_100yr	48373.00	-4.67	38.09	17.04	38.39	0.000435	4.37	11063.75	694.99	0.17
E100-00-00_N034	4407.	10PCT_10yr	32270.00	-3.62	30.76	16.15	31.23	0.000470	5.51	6042.93	479.55	0.23
E100-00-00_N034	4407.	2PCT_50yr	43493.00	-3.62	35.68	18.78	36.10	0.000337	5.40	9759.21	1176.61	0.20
E100-00-00_N034	4407.	1PCT_100yr	48373.00	-3.62	37.91	19.58	38.28	0.000272	5.16	12059.83	1289.40	0.18
E100-00-00_N034	4014.0	10PCT_10yr	32270.00	-2.15	30.72	14.82	30.96	0.000309	3.95	8160.12	492.51	0.17
E100-00-00_N034	4014.0	2PCT_50yr	43493.00	-2.15	35.66	16.90	35.89	0.000235	3.96	12054.76	1007.01	0.15
E100-00-00_N034	4014.0	1PCT_100yr	48373.00	-2.15	37.89	17.68	38.11	0.000195	3.84	14320.31	1018.53	0.14
E100-00-00_N034	3997.0		Bridge									
E100-00-00_N034	3976.0	10PCT_10yr	32270.00	-2.40	30.43	14.57	30.67	0.000311	3.96	8139.85	492.30	0.17
E100-00-00_N034	3976.0	2PCT_50yr	43493.00	-2.40	35.37	16.65	35.61	0.000237	3.97	12017.97	1006.83	0.15
E100-00-00_N034	3976.0	1PCT_100yr	48373.00	-2.40	37.61	17.43	37.83	0.000196	3.84	14291.64	1018.39	0.14
E100-00-00_N034	3681.	10PCT_10yr	32270.00	-3.80	30.10		30.51	0.000486	5.11	6363.66	473.23	0.23
E100-00-00_N034	3681.	2PCT_50yr	43493.00	-3.80	35.13		35.49	0.000330	4.91	10991.06	1334.67	0.19
E100-00-00_N034	3681.	1PCT_100yr	48373.00	-3.80	37.44		37.74	0.000255	4.60	14180.16	1400.89	0.17
E100-00-00_N034	3585.0	10PCT_10yr	32270.00	-4.26	30.05		30.47	0.000402	5.17	6248.04	435.12	0.23
E100-00-00_N034	3585.0	2PCT_50yr	43493.00	-4.26	35.06		35.45	0.000314	5.07	10706.82	1364.74	0.21
E100-00-00_N034	3585.0	1PCT_100yr	48373.00	-4.26	37.35		37.71	0.000267	4.89	13860.52	1389.24	0.19
E100-00-00_N034	2298.0	10PCT_10yr	32270.00	-6.21	29.58	13.68	29.93	0.000396	4.81	6835.28	600.75	0.20
E100-00-00_N034	2298.0	2PCT_50yr	43493.00	-6.21	34.71	15.86	35.05	0.000286	4.83	11976.32	1044.42	0.18
E100-00-00_N034	2298.0	1PCT_100yr	48373.00	-6.21	37.05	16.72	37.37	0.000238	4.70	14689.69	1229.96	0.16
E100-00-00_N034	1580.	10PCT_10yr	32270.00	-7.83	29.06	14.27	29.59	0.000534	6.11	7260.10	993.07	0.24
E100-00-00_N034	1580.	2PCT_50yr	43493.00	-7.83	34.54	16.97	34.85	0.000289	5.14	14754.33	1457.53	0.18
E100-00-00_N034	1580.	1PCT_100yr	48373.00	-7.83	36.94	17.98	37.19	0.000223	4.81	18501.44	1625.01	0.16
E100-00-00_N034	1353.0	10PCT_10yr	32270.00	-8.34	28.77	14.71	29.42	0.000750	6.82	7045.40	838.71	0.28
E100-00-00_N034	1353.0	2PCT_50yr	43493.00	-8.34	34.25	17.64	34.72	0.000446	6.21	12622.55	1596.49	0.22
E100-00-00_N034	1353.0	1PCT_100yr	48373.00	-8.34	36.70	18.75	37.09	0.000346	5.83	15978.00	1733.44	0.20
E100-00-00_N034	1335.0		Bridge									
E100-00-00_N034	1319.0	10PCT_10yr	32270.00	-8.37	27.61	14.68	28.65	0.001123	8.19	3940.19	632.79	0.34
E100-00-00_N034	1319.0	2PCT_50yr	43493.00	-8.37	34.03	17.59	34.51	0.000458	6.26	12510.02	1670.36	0.23
E100-00-00_N034	1319.0	1PCT_100yr	48373.00	-8.37	36.52	18.73	36.91	0.000352	5.86	15915.92	1801.86	0.20
E100-00-00_N034	984.0	10PCT_10yr	32270.00	-8.69	27.59	11.55	28.25	0.000401	6.51	5164.18	607.82	0.27
E100-00-00_N034	984.0	2PCT_50yr	43493.00	-8.69	33.93	14.47	34.39	0.000243	5.76	11386.16	986.61	0.21
E100-00-00_N034	984.0	1PCT_100yr	48373.00	-8.69	36.36	15.66	36.79	0.000214	5.68	13531.35	1531.54	0.20
E100-00-00_N034	961.5		Bridge									
E100-00-00_N034	851.0	10PCT_10yr	32270.00	-6.40	27.05	13.84	27.97	0.000650	7.70	4325.15	625.93	0.34
E100-00-00_N034	851.0	2PCT_50yr	43493.00	-6.40	33.75	16.76	34.26	0.000309	6.21	11181.11	1002.15	0.24
E100-00-00_N034	851.0	1PCT_100yr	48373.00	-6.40	36.19	17.95	36.67	0.000267	6.04	13319.48	1446.06	0.22
E100-00-00_N034	654.0	10PCT_10yr	32270.00	-6.50	27.22	7.87	27.67	0.000198	5.37	6005.07	589.00	0.21
E100-00-00_N034	654.0	2PCT_50yr	43493.00	-6.50	33.80	11.19	34.13	0.000151	4.85	12557.24	1205.19	0.18
E100-00-00_N034	654.0	1PCT_100yr	48373.00	-6.50	36.24	12.46	36.56	0.000129	4.78	16113.36	1699.89	0.17
E100-00-00_N034	400.0	10PCT_10yr	32270.00	-8.58	26.71	10.90	27.50	0.000295	7.13	4525.61	467.69	0.27
E100-00-00_N034	400.0	2PCT_50yr	43493.00	-8.58	33.41	14.19	34.01	0.000226	6.53	9848.35	828.71	0.23
E100-00-00_N034	400.0	1PCT_100yr	48373.00	-8.58	35.89	15.30	36.44	0.000201	6.40	13296.07	1906.73	0.22
E100-00-00_N034	381.0		Bridge									
E100-00-00_N034	365.0	10PCT_10yr	32270.00	-8.23	26.50	11.23	27.33	0.000310	7.32	4407.04	478.65	0.28
E100-00-00_N034	365.0	2PCT_50yr	43493.00	-8.23	33.34	14.54	33.94	0.000228	6.52	9617.65	801.17	0.23
E100-00-00_N034	365.0	1PCT_100yr	48373.00	-8.23	35.84	15.61	36.38	0.000200	6.33	13067.92	1972.96	0.22
E100-00-00_N034	210.0	10PCT_10yr	32270.00	-7.81	26.21	11.76	27.23	0.000367	8.08	3991.66	551.16	0.31
E100-00-00_N034	210.0	2PCT_50yr	43493.00	-7.81	33.11	14.48	33.85	0.000252	7.32	9096.92	922.85	0.25
E100-00-00_N034	210.0	1PCT_100yr	48373.00	-7.81	35.57	15.76	36.28	0.000234	7.26	10805.24	2042.08	0.24
E100-00-00_N034	191.0		Bridge									
E100-00-00_N034	173.0	10PCT_10yr	32270.00	-6.84	25.87	12.73	27.02	0.000443	8.61	3747.87	679.07	0.34
E100-00-00_N034	173.0	2PCT_50yr	43493.00	-6.84	32.80	15.45	33.67	0.000300	7.83	8365.12	1227.72	0.27
E100-00-00_N034	173.0	1PCT_100yr	48373.00	-6.84	35.39	16.71	36.22	0.000277	7.72	10334.22	2480.04	0.26
E100-00-00_N034	-442	10PCT_10yr	39646.00	-14.28	25.81	5.22	26.53	0.000422	7.02	7053.34	336.19	0.22

E100-00-00 Mitigated
HEC-RAS Output

HEC-RAS Plan: Mitigated River: E100-00-00 Reach: E100-00-00_N034 (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
E100-00-00_N034	-442	2PCT_50yr	56478.00	-14.28	32.57	9.77	33.45	0.000409	7.89	9412.59	361.78	0.23
E100-00-00_N034	-442	1PCT_100yr	64514.00	-14.28	34.98	11.49	35.96	0.000423	8.37	10297.93	405.00	0.23
E100-00-00_N034	-475		Bridge									
E100-00-00_N034	-508	10PCT_10yr	39646.00	-15.31	24.99	4.20	25.69	0.000412	6.97	7122.48	336.96	0.22
E100-00-00_N034	-508	2PCT_50yr	56478.00	-15.31	31.74	8.74	32.60	0.000401	7.84	9482.94	362.51	0.23
E100-00-00_N034	-508	1PCT_100yr	64514.00	-15.31	34.88	10.46	35.80	0.000388	8.15	10651.11	588.06	0.23
E100-00-00_N034	-553.5	10PCT_10yr	39646.00	-16.48	24.76	4.59	25.63	0.000474	7.73	6641.35	321.34	0.24
E100-00-00_N034	-553.5	2PCT_50yr	56478.00	-16.48	31.45	8.60	32.52	0.000477	8.77	8822.36	331.12	0.25
E100-00-00_N034	-553.5	1PCT_100yr	64514.00	-16.48	34.56	10.32	35.71	0.000467	9.14	9861.70	335.67	0.25
E100-00-00_N034	-598.5		Bridge									
E100-00-00_N034	-643.5	10PCT_10yr	39646.00	-16.89	24.42	4.18	25.28	0.000471	7.71	6663.58	321.44	0.24
E100-00-00_N034	-643.5	2PCT_50yr	56478.00	-16.89	30.86	8.19	31.95	0.000485	8.82	8764.28	330.86	0.25
E100-00-00_N034	-643.5	1PCT_100yr	64514.00	-16.89	33.55	9.92	34.74	0.000493	9.30	9658.76	334.79	0.25
E100-00-00_N034	-874.7	10PCT_10yr	39646.00	-17.14	24.08	5.87	25.10	0.000675	8.32	5335.82	348.14	0.27
E100-00-00_N034	-874.7	2PCT_50yr	56478.00	-17.14	30.75	10.27	31.82	0.000579	8.80	7614.89	476.44	0.26
E100-00-00_N034	-874.7	1PCT_100yr	64514.00	-17.14	33.51	11.91	34.55	0.000533	8.86	9884.94	1028.41	0.25
E100-00-00_N034	-890.6		Bridge									
E100-00-00_N034	-906.5	10PCT_10yr	39646.00	-17.55	23.84	5.46	24.85	0.000660	8.25	5389.64	350.64	0.26
E100-00-00_N034	-906.5	2PCT_50yr	56478.00	-17.55	30.51	9.88	31.56	0.000567	8.74	7676.35	481.57	0.25
E100-00-00_N034	-906.5	1PCT_100yr	64514.00	-17.55	33.16	11.53	34.22	0.000535	8.89	9951.67	1103.89	0.25
E100-00-00_N034	-1428.4	10PCT_10yr	39646.00	-12.77	23.76	4.53	24.38	0.000429	6.33	6259.59	249.96	0.22
E100-00-00_N034	-1428.4	2PCT_50yr	56478.00	-12.77	30.40	7.72	31.17	0.000406	7.04	9167.15	531.11	0.22
E100-00-00_N034	-1428.4	1PCT_100yr	64514.00	-12.77	33.04	9.09	33.87	0.000397	7.35	10779.59	792.39	0.22
E100-00-00_N034	-1659.7	10PCT_10yr	39646.00	-14.06	23.72		24.27	0.000355	5.94	6739.27	371.38	0.20
E100-00-00_N034	-1659.7	2PCT_50yr	56478.00	-14.06	30.39		31.05	0.000342	6.57	11407.77	808.30	0.21
E100-00-00_N034	-1659.7	1PCT_100yr	64514.00	-14.06	33.05		33.75	0.000338	6.82	13728.08	987.35	0.21
E100-00-00_N034	-2814.3	10PCT_10yr	39790.00	-20.52	22.88	1.64	23.65	0.000671	7.07	5992.62	381.76	0.24
E100-00-00_N034	-2814.3	2PCT_50yr	56680.00	-20.52	29.49	5.39	30.44	0.000628	7.92	8595.53	396.14	0.24
E100-00-00_N034	-2814.3	1PCT_100yr	64760.00	-20.52	32.08	7.02	33.13	0.000630	8.34	9631.57	499.01	0.25
E100-00-00_N034	-2834.8		Bridge									
E100-00-00_N034	-2855.3	10PCT_10yr	39790.00	-20.19	22.70	1.97	23.51	0.000716	7.21	5810.43	337.41	0.25
E100-00-00_N034	-2855.3	2PCT_50yr	56680.00	-20.19	29.28	5.72	30.27	0.000666	8.07	8381.02	395.91	0.25
E100-00-00_N034	-2855.3	1PCT_100yr	64760.00	-20.19	31.85	7.36	32.94	0.000666	8.49	9403.78	439.45	0.25
E100-00-00_N034	-3399.7	10PCT_10yr	39790.00	-16.70	22.54	0.98	23.15	0.000344	6.27	6539.27	249.49	0.20
E100-00-00_N034	-3399.7	2PCT_50yr	56680.00	-16.70	29.10	4.74	29.91	0.000372	7.26	8258.16	274.56	0.22
E100-00-00_N034	-3399.7	1PCT_100yr	64760.00	-16.70	31.67	6.07	32.58	0.000388	7.71	8986.50	308.95	0.22

E100-00-00 Revised Existing
HEC-RAS Output

HEC-RAS Plan: Rev Ext River: E100-00-00 Reach: E100-00-00_N034

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
E100-00-00_N034	135006.0	10PCT_10yr	280.00	122.35	129.44		129.53	0.000401	2.47	174.48	164.81	0.28
E100-00-00_N034	135006.0	2PCT_50yr	430.00	122.35	130.43		130.52	0.000415	2.48	952.78	1311.60	0.26
E100-00-00_N034	135006.0	1PCT_100yr	500.00	122.35	130.76		130.85	0.000397	2.48	1427.68	1511.53	0.25
E100-00-00_N034	133960.0	10PCT_10yr	280.00	121.48	128.75	126.17	128.86	0.001200	2.65	106.57	200.12	0.28
E100-00-00_N034	133960.0	2PCT_50yr	430.00	121.48	129.70	126.99	129.82	0.001233	2.84	167.98	930.28	0.29
E100-00-00_N034	133960.0	1PCT_100yr	500.00	121.48	130.05	127.28	130.17	0.001226	2.88	201.06	1380.43	0.29
E100-00-00_N034	133211	10PCT_10yr	280.00	120.98	126.69	125.67	127.07	0.006442	5.00	56.01	25.25	0.59
E100-00-00_N034	133211	2PCT_50yr	430.00	120.98	127.55		127.99	0.006642	5.33	80.70	32.23	0.59
E100-00-00_N034	133211	1PCT_100yr	500.00	120.98	127.87		128.33	0.006749	5.45	91.75	35.29	0.60
E100-00-00_N034	133191	10PCT_10yr	280.00	120.98	125.67	125.67	126.69	0.016189	8.11	34.52	16.92	1.00
E100-00-00_N034	133191	2PCT_50yr	430.00	120.98	126.49	126.49	127.59	0.018304	8.38	51.32	23.69	1.00
E100-00-00_N034	133191	1PCT_100yr	500.00	120.98	126.78	126.78	127.92	0.018723	8.56	58.44	26.02	1.01
E100-00-00_N034	133109	10PCT_10yr	280.00	120.02	124.45		124.49	0.000051	1.50	187.13	60.08	0.15
E100-00-00_N034	133109	2PCT_50yr	430.00	120.02	126.02		126.06	0.000066	1.49	289.53	70.41	0.13
E100-00-00_N034	133109	1PCT_100yr	500.00	120.02	126.71		126.74	0.000068	1.47	339.17	74.90	0.12
E100-00-00_N034	132955.0	10PCT_10yr	340.00	118.90	124.43	121.39	124.47	0.000400	1.64	207.66	61.62	0.16
E100-00-00_N034	132955.0	2PCT_50yr	520.00	118.90	125.99	121.86	126.04	0.000295	1.67	312.26	71.60	0.14
E100-00-00_N034	132955.0	1PCT_100yr	610.00	118.90	126.68	122.06	126.72	0.000266	1.68	362.65	75.86	0.14
E100-00-00_N034	132898.0		Bridge									
E100-00-00_N034	132844.0	10PCT_10yr	340.00	118.39	123.87	120.88	123.91	0.000417	1.66	204.63	61.28	0.16
E100-00-00_N034	132844.0	2PCT_50yr	520.00	118.39	125.45	121.35	125.49	0.000301	1.68	309.71	71.38	0.14
E100-00-00_N034	132844.0	1PCT_100yr	610.00	118.39	126.14	121.55	126.18	0.000271	1.69	360.33	75.67	0.14
E100-00-00_N034	132744.	10PCT_10yr	340.00	118.30	123.82		123.87	0.000459	1.73	196.29	59.50	0.17
E100-00-00_N034	132744.	2PCT_50yr	520.00	118.30	125.41		125.46	0.000328	1.73	299.86	70.40	0.15
E100-00-00_N034	132744.	1PCT_100yr	610.00	118.30	126.11		126.15	0.000294	1.74	350.22	75.19	0.14
E100-00-00_N034	131721.0	10PCT_10yr	390.00	117.42	123.46		123.49	0.000299	1.56	250.17	64.66	0.14
E100-00-00_N034	131721.0	2PCT_50yr	590.00	117.42	125.14		125.18	0.000229	1.61	366.73	73.50	0.13
E100-00-00_N034	131721.0	1PCT_100yr	700.00	117.42	125.85		125.90	0.000219	1.67	420.20	77.22	0.13
E100-00-00_N034	131453.0	10PCT_10yr	390.00	117.00	123.37	119.67	123.41	0.000315	1.56	249.68	66.71	0.14
E100-00-00_N034	131453.0	2PCT_50yr	590.00	117.00	125.08	120.25	125.12	0.000228	1.59	370.74	74.96	0.13
E100-00-00_N034	131453.0	1PCT_100yr	700.00	117.00	125.80	120.54	125.84	0.000216	1.65	425.38	78.49	0.12
E100-00-00_N034	131442.5		Bridge									
E100-00-00_N034	131432.0	10PCT_10yr	390.00	116.98	123.34	119.65	123.38	0.000318	1.57	248.98	66.66	0.14
E100-00-00_N034	131432.0	2PCT_50yr	590.00	116.98	125.06	120.23	125.10	0.000228	1.59	370.73	74.96	0.13
E100-00-00_N034	131432.0	1PCT_100yr	700.00	116.98	125.77	120.52	125.81	0.000216	1.65	425.12	78.47	0.12
E100-00-00_N034	131331.	10PCT_10yr	390.00	116.84	123.31		123.35	0.000289	1.49	261.08	70.15	0.14
E100-00-00_N034	131331.	2PCT_50yr	590.00	116.84	125.04		125.08	0.000208	1.51	391.57	80.85	0.12
E100-00-00_N034	131331.	1PCT_100yr	700.00	116.84	125.75		125.79	0.000197	1.55	450.59	85.25	0.12
E100-00-00_N034	130861.0	10PCT_10yr	390.00	116.18	123.23		123.25	0.000146	1.17	332.70	76.78	0.10
E100-00-00_N034	130861.0	2PCT_50yr	590.00	116.18	124.98		125.00	0.000120	1.24	476.34	87.33	0.09
E100-00-00_N034	130861.0	1PCT_100yr	700.00	116.18	125.69		125.72	0.000119	1.30	540.07	91.45	0.09
E100-00-00_N034	129818.0	10PCT_10yr	1140.00	112.78	122.79		122.88	0.000518	2.49	457.03	86.40	0.19
E100-00-00_N034	129818.0	2PCT_50yr	1720.00	112.78	124.54		124.66	0.000505	2.78	618.24	97.29	0.19
E100-00-00_N034	129818.0	1PCT_100yr	2010.00	112.78	125.25		125.38	0.000512	2.92	705.28	210.85	0.20
E100-00-00_N034	128748.	10PCT_10yr	1140.00	113.76	122.25		122.34	0.000498	2.37	480.57	96.20	0.19
E100-00-00_N034	128748.	2PCT_50yr	1720.00	113.76	124.03		124.14	0.000472	2.58	677.98	194.37	0.19
E100-00-00_N034	128748.	1PCT_100yr	2010.00	113.76	124.73		124.84	0.000479	2.69	845.59	327.92	0.19
E100-00-00_N034	128646.0	10PCT_10yr	1180.00	113.85	122.16	117.83	122.28	0.000586	2.73	431.61	77.03	0.20
E100-00-00_N034	128646.0	2PCT_50yr	1780.00	113.85	123.92	118.57	124.07	0.000586	3.10	573.83	162.73	0.21
E100-00-00_N034	128646.0	1PCT_100yr	2090.00	113.85	124.60	118.93	124.77	0.000612	3.31	632.27	284.82	0.22
E100-00-00_N034	128595.0		Bridge									
E100-00-00_N034	128540.0	10PCT_10yr	1180.00	113.03	122.08	117.01	122.17	0.000405	2.41	490.21	80.15	0.17
E100-00-00_N034	128540.0	2PCT_50yr	1780.00	113.03	123.84	117.75	123.96	0.000434	2.79	637.45	160.74	0.18
E100-00-00_N034	128540.0	1PCT_100yr	2090.00	113.03	124.52	118.11	124.66	0.000463	3.00	697.50	257.91	0.19
E100-00-00_N034	128236.0	10PCT_10yr	1280.00	110.63	121.98		122.05	0.000352	2.24	570.21	93.91	0.16
E100-00-00_N034	128236.0	2PCT_50yr	1930.00	110.63	123.73		123.83	0.000382	2.59	743.91	104.74	0.17
E100-00-00_N034	128236.0	1PCT_100yr	2260.00	110.63	124.40		124.51	0.000407	2.77	870.05	268.97	0.18
E100-00-00_N034	127300.0	10PCT_10yr	1410.00	111.50	121.65		121.73	0.000348	2.25	625.88	101.94	0.16
E100-00-00_N034	127300.0	2PCT_50yr	2120.00	111.50	123.37		123.48	0.000377	2.62	809.71	111.69	0.17
E100-00-00_N034	127300.0	1PCT_100yr	2480.00	111.50	124.01		124.13	0.000404	2.81	902.42	208.15	0.18
E100-00-00_N034	126183.0	10PCT_10yr	1500.00	110.38	121.20		121.30	0.000425	2.51	598.73	97.29	0.18
E100-00-00_N034	126183.0	2PCT_50yr	2250.00	110.38	122.87		123.00	0.000476	2.92	801.24	283.27	0.19
E100-00-00_N034	126183.0	1PCT_100yr	2630.00	110.38	123.47		123.62	0.000515	3.14	1212.51	1153.57	0.20

E100-00-00 Revised Existing
HEC-RAS Output

HEC-RAS Plan: Rev Ext River: E100-00-00 Reach: E100-00-00_N034 (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
E100-00-00_N034	125563.	10PCT_10yr	1500.00	111.26	120.97		121.06	0.000339	2.28	659.24	105.78	0.16
E100-00-00_N034	125563.	2PCT_50yr	2250.00	111.26	122.62		122.73	0.000380	2.67	927.46	394.60	0.17
E100-00-00_N034	125563.	1PCT_100yr	2630.00	111.26	123.20		123.33	0.000415	2.89	1204.38	611.45	0.18
E100-00-00_N034	125461.0	10PCT_10yr	1650.00	111.40	120.93	115.69	121.02	0.000308	2.45	673.22	110.20	0.17
E100-00-00_N034	125461.0	2PCT_50yr	2470.00	111.40	122.57	116.52	122.70	0.000341	2.87	861.66	367.86	0.19
E100-00-00_N034	125461.0	1PCT_100yr	2890.00	111.40	123.13	116.89	123.28	0.000375	3.11	930.49	834.98	0.20
E100-00-00_N034	125405.0		Bridge									
E100-00-00_N034	125344.0	10PCT_10yr	1650.00	111.39	120.85	115.68	120.95	0.000318	2.48	665.52	109.78	0.18
E100-00-00_N034	125344.0	2PCT_50yr	2470.00	111.39	122.48	116.51	122.61	0.000352	2.90	851.85	299.71	0.19
E100-00-00_N034	125344.0	1PCT_100yr	2890.00	111.39	123.04	116.88	123.20	0.000387	3.14	920.51	763.91	0.20
E100-00-00_N034	125237.	10PCT_10yr	1650.00	110.79	120.77	116.01	120.90	0.000586	2.84	581.78	101.47	0.21
E100-00-00_N034	125237.	2PCT_50yr	2470.00	110.79	122.38	116.92	122.55	0.000660	3.27	756.14	230.08	0.23
E100-00-00_N034	125237.	1PCT_100yr	2890.00	110.79	122.94	117.31	123.13	0.000736	3.51	823.00	557.01	0.24
E100-00-00_N034	125059.	10PCT_10yr	1650.00	109.80	120.70	115.36	120.81	0.000472	2.62	630.94	104.58	0.19
E100-00-00_N034	125059.	2PCT_50yr	2470.00	109.80	122.29	116.26	122.43	0.000572	3.05	896.83	368.67	0.21
E100-00-00_N034	125059.	1PCT_100yr	2890.00	109.80	122.83	116.66	123.00	0.000634	3.28	1199.91	982.01	0.22
E100-00-00_N034	124956.0	10PCT_10yr	1650.00	109.22	120.65	115.20	120.75	0.000436	2.55	646.87	103.53	0.18
E100-00-00_N034	124956.0	2PCT_50yr	2470.00	109.22	122.23	116.09	122.38	0.000505	3.02	902.88	390.33	0.20
E100-00-00_N034	124956.0	1PCT_100yr	2890.00	109.22	122.77	116.48	122.94	0.000560	3.27	1178.42	722.97	0.21
E100-00-00_N034	124943.5		Bridge									
E100-00-00_N034	124931.0	10PCT_10yr	1650.00	109.16	120.53	115.13	120.63	0.000450	2.58	639.92	103.10	0.18
E100-00-00_N034	124931.0	2PCT_50yr	2470.00	109.16	122.14	116.01	122.28	0.000512	3.03	889.72	377.02	0.20
E100-00-00_N034	124931.0	1PCT_100yr	2890.00	109.16	122.75	116.41	122.92	0.000551	3.25	1208.04	780.00	0.21
E100-00-00_N034	124809.	10PCT_10yr	1650.00	109.04	120.49		120.57	0.000359	2.32	710.58	114.54	0.16
E100-00-00_N034	124809.	2PCT_50yr	2470.00	109.04	122.10		122.21	0.000447	2.71	1017.27	434.07	0.19
E100-00-00_N034	124809.	1PCT_100yr	2890.00	109.04	122.71		122.84	0.000462	2.89	1543.53	1385.69	0.19
E100-00-00_N034	124344.0	10PCT_10yr	1770.00	108.60	120.31		120.40	0.000344	2.41	735.43	108.38	0.16
E100-00-00_N034	124344.0	2PCT_50yr	2640.00	108.60	121.87		122.00	0.000412	2.89	1092.29	577.06	0.18
E100-00-00_N034	124344.0	1PCT_100yr	3090.00	108.60	122.47		122.62	0.000445	3.11	1703.04	1607.87	0.19
E100-00-00_N034	123541.0	10PCT_10yr	1910.00	107.69	120.13		120.19	0.000189	1.97	1002.97	205.34	0.12
E100-00-00_N034	123541.0	2PCT_50yr	2850.00	107.69	121.65		121.74	0.000248	2.43	2490.72	1882.13	0.14
E100-00-00_N034	123541.0	1PCT_100yr	3330.00	107.69	122.23		122.33	0.000268	2.64	3959.98	3483.67	0.15
E100-00-00_N034	122719.	10PCT_10yr	1910.00	107.81	119.87		119.98	0.000379	2.54	848.08	459.80	0.17
E100-00-00_N034	122719.	2PCT_50yr	2850.00	107.81	121.32		121.46	0.000462	3.05	2270.91	1876.53	0.19
E100-00-00_N034	122719.	1PCT_100yr	3330.00	107.81	121.88		122.04	0.000488	3.28	3810.87	3947.73	0.20
E100-00-00_N034	122616.0	10PCT_10yr	2064.00	107.83	119.78	113.35	119.92	0.000534	3.04	678.75	203.57	0.20
E100-00-00_N034	122616.0	2PCT_50yr	3076.00	107.83	121.17	114.51	121.39	0.000710	3.76	819.11	2410.87	0.24
E100-00-00_N034	122616.0	1PCT_100yr	3591.00	107.83	121.69	115.01	121.95	0.000781	4.11	876.47	4501.11	0.25
E100-00-00_N034	122558.0		Bridge									
E100-00-00_N034	122498.0	10PCT_10yr	2064.00	107.80	119.59	113.32	119.74	0.000566	3.11	663.77	136.14	0.21
E100-00-00_N034	122498.0	2PCT_50yr	3076.00	107.80	120.87	114.48	121.11	0.000792	3.89	790.37	1110.15	0.25
E100-00-00_N034	122498.0	1PCT_100yr	3591.00	107.80	121.33	114.99	121.61	0.000894	4.29	839.90	2868.28	0.27
E100-00-00_N034	122396.	10PCT_10yr	2064.00	107.58	119.57		119.67	0.000348	2.53	844.56	246.43	0.17
E100-00-00_N034	122396.	2PCT_50yr	3076.00	107.58	120.85		121.00	0.000501	3.16	2077.33	2254.20	0.20
E100-00-00_N034	122396.	1PCT_100yr	3591.00	107.58	121.31		121.49	0.000561	3.43	3726.72	4710.40	0.22
E100-00-00_N034	121745.0	10PCT_10yr	2064.00	106.17	119.43		119.50	0.000191	2.06	1147.12	389.57	0.13
E100-00-00_N034	121745.0	2PCT_50yr	3076.00	106.17	120.65		120.75	0.000272	2.62	2615.91	2638.34	0.15
E100-00-00_N034	121745.0	1PCT_100yr	3591.00	106.17	121.09		121.21	0.000298	2.82	4132.38	4796.49	0.16
E100-00-00_N034	121010.0	10PCT_10yr	3360.00	105.89	119.07		119.24	0.000512	3.34	3279.93	3089.75	0.21
E100-00-00_N034	121010.0	2PCT_50yr	4960.00	105.89	120.16		120.41	0.000687	4.13	7323.23	4416.06	0.24
E100-00-00_N034	121010.0	1PCT_100yr	5780.00	105.89	120.54		120.82	0.000782	4.50	9214.72	5661.91	0.26
E100-00-00_N034	120253.0	10PCT_10yr	3540.00	103.73	118.56		118.77	0.000741	3.86	3245.67	3548.36	0.24
E100-00-00_N034	120253.0	2PCT_50yr	5140.00	103.73	119.68		119.87	0.000679	3.99	8266.06	5412.87	0.24
E100-00-00_N034	120253.0	1PCT_100yr	5970.00	103.73	120.06		120.24	0.000671	4.08	10512.02	6654.42	0.24
E100-00-00_N034	119390.0	10PCT_10yr	3700.00	100.59	117.98		118.18	0.000610	3.65	2460.27	2828.94	0.22
E100-00-00_N034	119390.0	2PCT_50yr	5300.00	100.59	119.01		119.26	0.000724	4.24	6644.84	5810.80	0.24
E100-00-00_N034	119390.0	1PCT_100yr	6130.00	100.59	119.35		119.61	0.000768	4.47	8794.42	6763.72	0.25
E100-00-00_N034	118660.0	10PCT_10yr	3900.00	101.55	117.38		117.64	0.000897	4.19	1969.93	2069.24	0.27
E100-00-00_N034	118660.0	2PCT_50yr	5500.00	101.55	118.48		118.70	0.000805	4.24	5885.01	5628.71	0.26
E100-00-00_N034	118660.0	1PCT_100yr	6340.00	101.55	118.80		119.02	0.000815	4.35	7929.75	6767.13	0.26
E100-00-00_N034	117779.0	10PCT_10yr	4177.00	102.24	116.46		116.78	0.001043	4.52	1109.10	632.10	0.29
E100-00-00_N034	117779.0	2PCT_50yr	5760.00	102.24	117.50		117.84	0.001122	4.96	3127.09	3595.77	0.30

HEC-RAS Plan: Rev Ext River: E100-00-00 Reach: E100-00-00_N034 (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
E100-00-00_N034	117779.0	1PCT_100yr	6601.00	102.24	117.88		118.19	0.001033	4.88	4851.08	5188.65	0.29
E100-00-00_N034	116759.	10PCT_10yr	4177.00	100.39	115.45		115.74	0.000965	4.43	1110.78	480.62	0.28
E100-00-00_N034	116759.	2PCT_50yr	5760.00	100.39	116.20		116.61	0.001262	5.29	1874.33	1830.07	0.32
E100-00-00_N034	116759.	1PCT_100yr	6601.00	100.39	116.47		116.92	0.001396	5.67	2475.16	2591.84	0.34
E100-00-00_N034	116659.0	10PCT_10yr	4350.00	100.21	115.22	109.88	115.60	0.001448	5.00	989.36	435.44	0.33
E100-00-00_N034	116659.0	2PCT_50yr	6020.00	100.21	115.89	111.15	116.41	0.002084	5.98	1519.17	1342.63	0.40
E100-00-00_N034	116659.0	1PCT_100yr	6860.00	100.21	116.12	111.72	116.70	0.002303	6.40	1903.96	1841.40	0.42
E100-00-00_N034	116605.5		Bridge									
E100-00-00_N034	116549.0	10PCT_10yr	4350.00	99.66	114.69	109.31	115.07	0.001440	4.98	996.62	446.51	0.33
E100-00-00_N034	116549.0	2PCT_50yr	6020.00	99.66	116.03	110.58	116.34	0.001247	4.91	2941.08	2910.39	0.31
E100-00-00_N034	116549.0	1PCT_100yr	6860.00	99.66	116.39	111.15	116.68	0.001200	4.96	4316.35	4954.57	0.31
E100-00-00_N034	116453.	10PCT_10yr	4350.00	99.75	114.59		114.91	0.001223	4.60	1173.04	576.37	0.31
E100-00-00_N034	116453.	2PCT_50yr	6020.00	99.75	115.96		116.21	0.000891	4.42	2952.48	2194.66	0.27
E100-00-00_N034	116453.	1PCT_100yr	6860.00	99.75	116.33		116.55	0.000815	4.35	3816.17	2483.56	0.26
E100-00-00_N034	115807.0	10PCT_10yr	4530.00	100.32	113.65		114.06	0.001364	5.14	881.36	116.51	0.33
E100-00-00_N034	115807.0	2PCT_50yr	6300.00	100.32	115.03		115.50	0.001383	5.67	1963.69	1508.75	0.34
E100-00-00_N034	115807.0	1PCT_100yr	7120.00	100.32	115.37		115.87	0.001433	5.92	2533.00	1817.12	0.35
E100-00-00_N034	114948.0	10PCT_10yr	4680.00	98.89	113.34		113.47	0.000338	2.85	1648.27	246.72	0.17
E100-00-00_N034	114948.0	2PCT_50yr	6540.00	98.89	114.65		114.82	0.000417	3.35	3082.25	2955.25	0.19
E100-00-00_N034	114948.0	1PCT_100yr	7350.00	98.89	114.96		115.15	0.000451	3.56	4122.37	3709.41	0.20
E100-00-00_N034	114246.0	10PCT_10yr	4950.00	99.33	113.32		113.35	0.000066	1.32	4342.95	1530.99	0.08
E100-00-00_N034	114246.0	2PCT_50yr	6940.00	99.33	114.64		114.68	0.000074	1.53	7802.90	4035.61	0.08
E100-00-00_N034	114246.0	1PCT_100yr	7740.00	99.33	114.96		114.99	0.000081	1.62	9255.80	5357.99	0.09
E100-00-00_N034	113821.	10PCT_10yr	4950.00	98.17	112.99		113.26	0.000927	4.23	1694.65	1202.82	0.27
E100-00-00_N034	113821.	2PCT_50yr	6940.00	98.17	114.43		114.61	0.000665	3.89	5299.56	4315.19	0.24
E100-00-00_N034	113821.	1PCT_100yr	7740.00	98.17	114.75		114.92	0.000622	3.86	6909.58	5814.83	0.23
E100-00-00_N034	113668.0	10PCT_10yr	4950.00	97.75	112.73	106.77	113.08	0.001143	4.83	1368.37	661.22	0.30
E100-00-00_N034	113668.0	2PCT_50yr	6940.00	97.75	114.22	108.18	114.48	0.000848	4.64	4503.51	3862.01	0.27
E100-00-00_N034	113668.0	1PCT_100yr	7740.00	97.75	114.59	108.69	114.81	0.000748	4.47	6192.07	5690.20	0.25
E100-00-00_N034	113650.0		Bridge									
E100-00-00_N034	113632.0	10PCT_10yr	4950.00	97.28	112.66	106.28	112.98	0.000998	4.63	1383.55	616.95	0.29
E100-00-00_N034	113632.0	2PCT_50yr	6940.00	97.28	113.90	107.69	114.24	0.000974	5.02	3439.22	3309.03	0.29
E100-00-00_N034	113632.0	1PCT_100yr	7740.00	97.28	114.31	108.20	114.59	0.000855	4.84	4920.04	4060.20	0.27
E100-00-00_N034	113539.	10PCT_10yr	4950.00	97.43	112.62		112.87	0.000743	4.09	1518.96	586.35	0.25
E100-00-00_N034	113539.	2PCT_50yr	6940.00	97.43	113.85		114.13	0.000837	4.56	3140.55	2469.08	0.27
E100-00-00_N034	113539.	1PCT_100yr	7740.00	97.43	114.25		114.51	0.000782	4.53	4366.88	3748.29	0.26
E100-00-00_N034	113080.0	10PCT_10yr	5070.00	98.18	112.32		112.55	0.000630	3.92	1654.66	683.06	0.23
E100-00-00_N034	113080.0	2PCT_50yr	7140.00	98.18	113.48		113.77	0.000742	4.54	3051.59	2294.67	0.26
E100-00-00_N034	113080.0	1PCT_100yr	7920.00	98.18	113.87		114.16	0.000725	4.61	4217.44	3637.54	0.25
E100-00-00_N034	112547.0	10PCT_10yr	5350.00	97.39	111.98		112.20	0.000624	3.88	1845.15	860.79	0.23
E100-00-00_N034	112547.0	2PCT_50yr	7580.00	97.39	113.08		113.36	0.000736	4.51	3461.14	2350.83	0.25
E100-00-00_N034	112547.0	1PCT_100yr	8330.00	97.39	113.50		113.77	0.000704	4.54	4652.72	3371.34	0.25
E100-00-00_N034	111983.	10PCT_10yr	5350.00	96.47	111.64		111.85	0.000612	3.76	1867.43	861.98	0.23
E100-00-00_N034	111983.	2PCT_50yr	7580.00	96.47	112.67		112.94	0.000718	4.40	3465.77	2540.51	0.25
E100-00-00_N034	111983.	1PCT_100yr	8330.00	96.47	113.13		113.37	0.000649	4.31	4876.71	3708.96	0.24
E100-00-00_N034	111861.0	10PCT_10yr	5350.00	96.27	111.48	104.65	111.75	0.000781	4.18	1282.00	965.31	0.25
E100-00-00_N034	111861.0	2PCT_50yr	7580.00	96.27	112.57	106.05	112.85	0.000834	4.54	3442.34	2258.51	0.26
E100-00-00_N034	111861.0	1PCT_100yr	8330.00	96.27	113.04	106.41	113.28	0.000741	4.42	4803.62	3511.27	0.25
E100-00-00_N034	111833.5		Bridge									
E100-00-00_N034	111799.0	10PCT_10yr	5350.00	96.75	111.27	105.11	111.58	0.000971	4.53	1181.16	740.89	0.27
E100-00-00_N034	111799.0	2PCT_50yr	7580.00	96.75	112.53	106.49	112.83	0.000969	4.78	3276.26	2171.99	0.28
E100-00-00_N034	111799.0	1PCT_100yr	8330.00	96.75	113.01	106.88	113.28	0.000862	4.61	4634.13	3430.29	0.26
E100-00-00_N034	111699.	10PCT_10yr	5350.00	96.78	111.25		111.45	0.000601	3.76	2043.64	993.70	0.24
E100-00-00_N034	111699.	2PCT_50yr	7580.00	96.78	112.50		112.71	0.000608	4.04	4286.78	2939.41	0.25
E100-00-00_N034	111699.	1PCT_100yr	8330.00	96.78	112.99		113.17	0.000542	3.90	5995.33	4107.63	0.23
E100-00-00_N034	111409.0	10PCT_10yr	5598.00	96.85	111.02		111.27	0.000675	4.06	1938.99	1001.98	0.24
E100-00-00_N034	111409.0	2PCT_50yr	7960.00	96.85	112.22		112.52	0.000766	4.68	3860.05	2367.80	0.26
E100-00-00_N034	111409.0	1PCT_100yr	8690.00	96.85	112.76		113.02	0.000665	4.52	5369.69	3363.73	0.24
E100-00-00_N034	110813.0	10PCT_10yr	5598.00	97.20	110.67		110.88	0.000637	3.91	2529.00	1593.26	0.23
E100-00-00_N034	110813.0	2PCT_50yr	7960.00	97.20	111.91		112.11	0.000598	4.07	5241.27	2996.44	0.23
E100-00-00_N034	110813.0	1PCT_100yr	8690.00	97.20	112.53		112.68	0.000482	3.81	7516.61	4530.57	0.21
E100-00-00_N034	110549.	10PCT_10yr	5598.00	96.58	110.46		110.70	0.000746	4.05	1979.18	1054.67	0.25

E100-00-00 Revised Existing
HEC-RAS Output

HEC-RAS Plan: Rev Ext River: E100-00-00 Reach: E100-00-00_N034 (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
E100-00-00_N034	110549.	2PCT_50yr	7960.00	96.58	111.72		111.95	0.000690	4.28	4147.69	2516.65	0.25
E100-00-00_N034	110549.	1PCT_100yr	8690.00	96.58	112.41		112.57	0.000503	3.83	6281.79	3730.82	0.21
E100-00-00_N034	110454.0	10PCT_10yr	5810.00	96.36	110.34	104.00	110.63	0.000770	4.27	1371.18	901.55	0.26
E100-00-00_N034	110454.0	2PCT_50yr	8260.00	96.36	111.65	105.24	111.90	0.000663	4.35	4086.93	2395.07	0.24
E100-00-00_N034	110454.0	1PCT_100yr	9060.00	96.36	112.35	105.59	112.52	0.000486	3.90	6075.58	3459.68	0.21
E100-00-00_N034	110399.0		Bridge									
E100-00-00_N034	110346.0	10PCT_10yr	5810.00	95.88	110.11	103.52	110.37	0.000702	4.16	1408.07	800.11	0.24
E100-00-00_N034	110346.0	2PCT_50yr	8260.00	95.88	111.66	104.74	111.89	0.000576	4.19	4199.13	2409.20	0.23
E100-00-00_N034	110346.0	1PCT_100yr	9060.00	95.88	112.02	105.10	112.23	0.000550	4.19	5131.78	2770.21	0.22
E100-00-00_N034	110243.	10PCT_10yr	5810.00	95.83	110.04		110.30	0.000923	4.21	1810.42	851.84	0.27
E100-00-00_N034	110243.	2PCT_50yr	8260.00	95.83	111.56		111.81	0.000787	4.38	4026.12	2265.02	0.26
E100-00-00_N034	110243.	1PCT_100yr	9060.00	95.83	111.93		112.16	0.000734	4.35	4954.87	2762.70	0.25
E100-00-00_N034	109208.0	10PCT_10yr	6090.00	95.31	108.63		109.09	0.001483	5.43	1155.91	287.62	0.35
E100-00-00_N034	109208.0	2PCT_50yr	8660.00	95.31	110.12		110.68	0.001558	6.19	2154.40	1377.50	0.36
E100-00-00_N034	109208.0	1PCT_100yr	9550.00	95.31	110.49		111.08	0.001567	6.38	2749.07	1792.49	0.37
E100-00-00_N034	108454	10PCT_10yr	6090.00	94.03	108.03		108.24	0.000754	3.99	2476.00	653.36	0.25
E100-00-00_N034	108454	2PCT_50yr	8660.00	94.03	109.62		109.83	0.000684	4.21	3884.54	1442.00	0.24
E100-00-00_N034	108454	1PCT_100yr	9550.00	94.03	109.99		110.21	0.000695	4.36	4472.04	1702.07	0.25
E100-00-00_N034	108354	10PCT_10yr	6090.00	93.86	107.78	102.77	108.13	0.001093	4.78	1290.78	264.62	0.30
E100-00-00_N034	108354	2PCT_50yr	8660.00	93.86	109.23	103.93	109.71	0.001253	5.61	2015.22	797.24	0.33
E100-00-00_N034	108354	1PCT_100yr	9550.00	93.86	109.56	104.29	110.09	0.001340	5.93	2325.85	1163.18	0.34
E100-00-00_N034	108339		Bridge									
E100-00-00_N034	108323	10PCT_10yr	6090.00	93.81	107.60	102.71	107.97	0.001140	4.84	1274.63	236.17	0.31
E100-00-00_N034	108323	2PCT_50yr	8660.00	93.81	109.10	103.85	109.60	0.001299	5.69	1965.35	783.38	0.33
E100-00-00_N034	108323	1PCT_100yr	9550.00	93.81	109.52	104.21	110.06	0.001353	5.96	2364.23	1128.75	0.34
E100-00-00_N034	108221	10PCT_10yr	6090.00	93.64	107.51		107.85	0.001077	4.73	1416.36	277.08	0.30
E100-00-00_N034	108221	2PCT_50yr	8660.00	93.64	109.00		109.46	0.001207	5.51	2062.52	707.86	0.32
E100-00-00_N034	108221	1PCT_100yr	9550.00	93.64	109.43		109.92	0.001241	5.73	2468.23	1152.03	0.33
E100-00-00_N034	107598.0	10PCT_10yr	6250.00	92.57	107.00		107.27	0.000754	4.15	1576.64	296.04	0.25
E100-00-00_N034	107598.0	2PCT_50yr	8890.00	92.57	108.43		108.79	0.000884	4.89	2322.35	1144.97	0.28
E100-00-00_N034	107598.0	1PCT_100yr	9830.00	92.57	108.85		109.22	0.000907	5.07	2934.51	1789.59	0.28
E100-00-00_N034	106727.0	10PCT_10yr	6449.00	90.24	106.49		106.70	0.000541	3.73	1804.96	284.42	0.22
E100-00-00_N034	106727.0	2PCT_50yr	9182.00	90.24	107.77		108.09	0.000722	4.58	2354.11	792.13	0.25
E100-00-00_N034	106727.0	1PCT_100yr	10189.00	90.24	108.12		108.48	0.000790	4.88	2710.57	1248.11	0.27
E100-00-00_N034	105640.0	10PCT_10yr	6449.00	89.76	105.90		106.13	0.000514	3.88	2243.84	1232.90	0.21
E100-00-00_N034	105640.0	2PCT_50yr	9182.00	89.76	107.13		107.39	0.000568	4.40	4564.53	2680.55	0.23
E100-00-00_N034	105640.0	1PCT_100yr	10189.00	89.76	107.46		107.73	0.000592	4.57	5548.58	3382.15	0.23
E100-00-00_N034	104527.0	10PCT_10yr	7407.00	87.96	104.97		105.37	0.000861	5.21	1822.25	617.19	0.28
E100-00-00_N034	104527.0	2PCT_50yr	10784.00	87.96	105.97		106.49	0.001101	6.24	3497.75	2517.29	0.32
E100-00-00_N034	104527.0	1PCT_100yr	12108.00	87.96	106.22		106.77	0.001189	6.57	4185.44	2945.78	0.33
E100-00-00_N034	103364.0	10PCT_10yr	7407.00	86.63	104.42	96.93	104.60	0.000463	3.92	5173.05	3305.27	0.20
E100-00-00_N034	103364.0	2PCT_50yr	10784.00	86.63	105.54	98.70	105.67	0.000386	3.81	9916.16	4943.73	0.19
E100-00-00_N034	103364.0	1PCT_100yr	12108.00	86.63	105.81	99.29	105.93	0.000380	3.83	11272.89	5160.14	0.19
E100-00-00_N034	102317.0	10PCT_10yr	7407.00	85.24	103.88	96.70	104.10	0.000562	4.27	4056.53	2585.48	0.22
E100-00-00_N034	102317.0	2PCT_50yr	10784.00	85.24	105.11	98.37	105.28	0.000498	4.30	8188.98	4979.49	0.21
E100-00-00_N034	102317.0	1PCT_100yr	12108.00	85.24	105.39	98.94	105.56	0.000495	4.36	9426.49	5262.57	0.21
E100-00-00_N034	101430.	10PCT_10yr	7407.00	84.71	103.38	95.79	103.61	0.000575	4.13	3562.31	2132.36	0.23
E100-00-00_N034	101430.	2PCT_50yr	10784.00	84.71	104.71	97.73	104.89	0.000495	4.14	7379.54	5160.43	0.22
E100-00-00_N034	101430.	1PCT_100yr	12108.00	84.71	104.99	98.38	105.18	0.000523	4.31	8448.19	5796.15	0.22
E100-00-00_N034	101325.0	10PCT_10yr	7407.00	84.65	103.36	95.74	103.52	0.000449	3.76	4819.66	2574.01	0.20
E100-00-00_N034	101325.0	2PCT_50yr	10784.00	84.65	104.69	97.59	104.82	0.000394	3.80	9358.77	6353.91	0.19
E100-00-00_N034	101325.0	1PCT_100yr	12108.00	84.65	104.97	98.23	105.09	0.000392	3.85	10553.54	6603.55	0.19
E100-00-00_N034	101296.0		Bridge									
E100-00-00_N034	101274.0	10PCT_10yr	7407.00	84.67	103.22	95.76	103.39	0.000502	3.93	4476.65	2289.68	0.21
E100-00-00_N034	101274.0	2PCT_50yr	10784.00	84.67	104.54	97.57	104.69	0.000457	4.05	8637.67	6152.63	0.21
E100-00-00_N034	101274.0	1PCT_100yr	12108.00	84.67	104.83	98.21	104.97	0.000449	4.08	9870.27	6451.81	0.20
E100-00-00_N034	101172.	10PCT_10yr	7407.00	84.38	103.19	95.60	103.32	0.000435	3.40	5073.14	2940.55	0.20
E100-00-00_N034	101172.	2PCT_50yr	10784.00	84.38	104.53	97.55	104.60	0.000287	3.00	10940.25	6584.02	0.16
E100-00-00_N034	101172.	1PCT_100yr	12108.00	84.38	104.83	98.22	104.89	0.000261	2.91	12950.41	6857.67	0.16
E100-00-00_N034	100723.0	10PCT_10yr	8383.00	83.09	102.58	95.66	102.92	0.000896	5.19	3324.75	1520.93	0.28
E100-00-00_N034	100723.0	2PCT_50yr	11524.00	83.09	104.06	97.43	104.30	0.000656	4.84	6094.52	3665.55	0.24
E100-00-00_N034	100723.0	1PCT_100yr	12688.00	83.09	104.41	98.01	104.61	0.000596	4.70	7076.18	4085.59	0.23

E100-00-00 Revised Existing
HEC-RAS Output

HEC-RAS Plan: Rev Ext River: E100-00-00 Reach: E100-00-00_N034 (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
E100-00-00_N034	99963.0	10PCT_10yr	8383.00	83.11	102.06	94.34	102.34	0.000636	4.70	3488.99	1247.36	0.24
E100-00-00_N034	99963.0	2PCT_50yr	11524.00	83.11	103.59	95.99	103.84	0.000569	4.82	5667.41	3090.69	0.23
E100-00-00_N034	99963.0	1PCT_100yr	12688.00	83.11	103.90	96.51	104.16	0.000602	5.02	6160.86	3368.29	0.24
E100-00-00_N034	99304.	10PCT_10yr	8383.00	83.36	101.64	93.64	101.91	0.000662	4.41	3454.30	1578.38	0.24
E100-00-00_N034	99304.	2PCT_50yr	11524.00	83.36	103.29	95.30	103.48	0.000490	4.19	7349.80	3266.33	0.21
E100-00-00_N034	99304.	1PCT_100yr	12688.00	83.36	103.59	95.92	103.78	0.000493	4.27	8310.43	3446.26	0.21
E100-00-00_N034	99202.0	10PCT_10yr	8383.00	83.40	101.58	93.54	101.84	0.000601	4.46	3908.36	1708.01	0.23
E100-00-00_N034	99202.0	2PCT_50yr	11524.00	83.40	103.24	95.18	103.43	0.000464	4.29	7794.62	3260.60	0.21
E100-00-00_N034	99202.0	1PCT_100yr	12688.00	83.40	103.55	95.71	103.73	0.000460	4.34	8766.07	3437.79	0.21
E100-00-00_N034	99176.0		Bridge									
E100-00-00_N034	99154.0	10PCT_10yr	8383.00	82.29	101.46	92.43	101.71	0.000506	4.30	3850.68	1668.80	0.21
E100-00-00_N034	99154.0	2PCT_50yr	11524.00	82.29	103.03	94.05	103.24	0.000449	4.38	7282.70	3183.27	0.21
E100-00-00_N034	99154.0	1PCT_100yr	12688.00	82.29	103.35	94.60	103.56	0.000443	4.42	8280.38	3287.32	0.21
E100-00-00_N034	99044.	10PCT_10yr	8383.00	82.07	101.30	94.59	101.61	0.001040	4.96	3319.51	1446.88	0.30
E100-00-00_N034	99044.	2PCT_50yr	11524.00	82.07	102.97	96.41	103.18	0.000681	4.51	6992.33	3081.07	0.25
E100-00-00_N034	99044.	1PCT_100yr	12688.00	82.07	103.30	97.02	103.49	0.000641	4.47	7964.78	3214.70	0.24
E100-00-00_N034	98564.0	10PCT_10yr	8383.00	81.12	101.00	93.31	101.23	0.000577	4.51	4949.70	2320.85	0.23
E100-00-00_N034	98564.0	2PCT_50yr	11524.00	81.12	102.83	95.13	102.94	0.000322	3.70	10087.17	3481.27	0.17
E100-00-00_N034	98564.0	1PCT_100yr	12688.00	81.12	103.16	95.72	103.26	0.000317	3.73	11183.04	3724.65	0.17
E100-00-00_N034	97673.	10PCT_10yr	8383.00	80.03	100.40	93.02	100.65	0.000819	4.58	4299.55	2401.47	0.26
E100-00-00_N034	97673.	2PCT_50yr	11524.00	80.03	102.58	94.97	102.67	0.000308	3.24	10487.01	5936.95	0.17
E100-00-00_N034	97673.	1PCT_100yr	12688.00	80.03	102.91	95.63	102.99	0.000308	3.30	11566.18	6376.29	0.17
E100-00-00_N034	97571.0	10PCT_10yr	8383.00	79.91	100.33	92.47	100.56	0.000716	4.59	4770.35	2570.96	0.25
E100-00-00_N034	97571.0	2PCT_50yr	11524.00	79.91	102.56	94.63	102.63	0.000270	3.19	11021.28	5712.56	0.16
E100-00-00_N034	97571.0	1PCT_100yr	12688.00	79.91	102.89	95.31	102.96	0.000265	3.22	11999.21	6116.47	0.16
E100-00-00_N034	97558.0		Bridge									
E100-00-00_N034	97546.0	10PCT_10yr	8383.00	80.13	100.13	92.66	100.41	0.000850	4.94	4315.57	2305.69	0.27
E100-00-00_N034	97546.0	2PCT_50yr	11524.00	80.13	102.50	94.83	102.57	0.000288	3.25	10810.53	5584.90	0.16
E100-00-00_N034	97546.0	1PCT_100yr	12688.00	80.13	102.83	95.50	102.90	0.000281	3.27	11795.00	6085.72	0.16
E100-00-00_N034	97445.	10PCT_10yr	8383.00	79.21	100.09	91.60	100.31	0.000662	4.14	4440.48	2645.77	0.24
E100-00-00_N034	97445.	2PCT_50yr	11524.00	79.21	102.48	93.44	102.55	0.000239	2.89	10650.62	5776.79	0.15
E100-00-00_N034	97445.	1PCT_100yr	12688.00	79.21	102.80	94.06	102.87	0.000239	2.95	11554.71	5927.75	0.15
E100-00-00_N034	97054.0	10PCT_10yr	8383.00	75.66	99.76	88.63	100.07	0.000540	4.66	3016.52	1651.01	0.22
E100-00-00_N034	97054.0	2PCT_50yr	11524.00	75.66	102.27	90.63	102.43	0.000302	3.90	7702.29	6076.86	0.17
E100-00-00_N034	97054.0	1PCT_100yr	12688.00	75.66	102.60	91.29	102.76	0.000311	4.01	8383.55	6654.09	0.17
E100-00-00_N034	96688.	10PCT_10yr	8383.00	74.63	99.63	86.72	99.88	0.000398	3.96	2118.97	1464.46	0.20
E100-00-00_N034	96688.	2PCT_50yr	11524.00	74.63	102.00	88.57	102.29	0.000416	4.31	2817.28	3930.89	0.23
E100-00-00_N034	96688.	1PCT_100yr	12688.00	74.63	102.28	89.14	102.60	0.000470	4.62	2923.61	3987.28	0.24
E100-00-00_N034	96586.0	10PCT_10yr	8383.00	74.34	99.60	86.05	99.84	0.000419	3.89	2156.92	1501.38	0.19
E100-00-00_N034	96586.0	2PCT_50yr	11524.00	74.34	101.93	87.89	102.24	0.000489	4.45	2587.11	3808.34	0.21
E100-00-00_N034	96586.0	1PCT_100yr	12688.00	74.34	102.18	88.47	102.54	0.000558	4.82	2635.01	3865.04	0.23
E100-00-00_N034	96552.5		Bridge									
E100-00-00_N034	96514.0	10PCT_10yr	8383.00	74.57	99.53	86.28	99.77	0.000443	3.98	2104.41	1405.23	0.20
E100-00-00_N034	96514.0	2PCT_50yr	11524.00	74.57	101.67	88.11	102.00	0.000553	4.62	2493.10	3593.83	0.23
E100-00-00_N034	96514.0	1PCT_100yr	12688.00	74.57	101.85	88.71	102.24	0.000640	5.02	2528.27	3790.45	0.24
E100-00-00_N034	96459.0	10PCT_10yr	8383.00	75.54	99.49	87.17	99.75	0.000481	4.13	2029.87	357.09	0.21
E100-00-00_N034	96459.0	2PCT_50yr	11524.00	75.54	101.60	89.32	101.96	0.000566	4.81	2394.88	648.85	0.23
E100-00-00_N034	96459.0	1PCT_100yr	12688.00	75.54	101.77	89.99	102.20	0.000662	5.23	2424.67	682.10	0.25
E100-00-00_N034	96380.5		Bridge									
E100-00-00_N034	96298.0	10PCT_10yr	8383.00	75.98	99.33	87.61	99.63	0.000550	4.34	1932.19	186.69	0.22
E100-00-00_N034	96298.0	2PCT_50yr	11524.00	75.98	101.39	89.76	101.79	0.000652	5.05	2280.87	475.81	0.25
E100-00-00_N034	96298.0	1PCT_100yr	12688.00	75.98	101.51	90.43	101.98	0.000770	5.51	2301.76	525.14	0.27
E100-00-00_N034	96244.0	10PCT_10yr	8383.00	76.20	99.25	89.37	99.58	0.000691	4.64	1807.32	166.17	0.25
E100-00-00_N034	96244.0	2PCT_50yr	11524.00	76.20	101.30	91.22	101.74	0.000807	5.33	2164.08	261.88	0.27
E100-00-00_N034	96244.0	1PCT_100yr	12688.00	76.20	101.40	91.85	101.92	0.000956	5.81	2182.48	335.98	0.30
E100-00-00_N034	96210.5		Bridge									
E100-00-00_N034	96176.0	10PCT_10yr	8383.00	75.64	98.60	88.81	98.94	0.000706	4.68	1792.63	165.49	0.25
E100-00-00_N034	96176.0	2PCT_50yr	11524.00	75.64	99.96	90.67	100.47	0.000963	5.69	2025.61	176.06	0.30
E100-00-00_N034	96176.0	1PCT_100yr	12688.00	75.64	100.31	91.28	100.88	0.001077	6.08	2087.23	178.73	0.31
E100-00-00_N034	96077.	10PCT_10yr	8383.00	75.38	98.55	88.25	98.85	0.000631	4.37	2046.44	1107.35	0.24
E100-00-00_N034	96077.	2PCT_50yr	11524.00	75.38	99.94	89.95	100.32	0.000736	5.09	3120.60	2043.77	0.26
E100-00-00_N034	96077.	1PCT_100yr	12688.00	75.38	100.30	90.51	100.72	0.000784	5.35	3446.00	2224.26	0.27

HEC-RAS Plan: Rev Ext River: E100-00-00 Reach: E100-00-00_N034 (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
E100-00-00_N034	95629.0	10PCT_10yr	8383.00	74.21	98.39	86.02	98.62	0.000344	3.78	2482.42	1275.04	0.18
E100-00-00_N034	95629.0	2PCT_50yr	11524.00	74.21	99.73	87.70	100.04	0.000454	4.56	3905.78	4074.49	0.21
E100-00-00_N034	95629.0	1PCT_100yr	12688.00	74.21	100.07	88.20	100.41	0.000496	4.82	4421.60	5001.65	0.22
E100-00-00_N034	95013.0	10PCT_10yr	8383.00	76.53	98.22	85.61	98.41	0.000296	3.56	3109.64	2042.01	0.17
E100-00-00_N034	95013.0	2PCT_50yr	11524.00	76.53	99.52	87.20	99.78	0.000364	4.20	4690.55	4582.19	0.19
E100-00-00_N034	95013.0	1PCT_100yr	12688.00	76.53	99.85	87.73	100.12	0.000397	4.45	5090.53	5392.22	0.20
E100-00-00_N034	94401.0	10PCT_10yr	8383.00	72.20	97.78	86.67	98.13	0.000726	4.86	2715.57	2352.30	0.25
E100-00-00_N034	94401.0	2PCT_50yr	11524.00	72.20	99.10	90.28	99.46	0.000749	5.30	4721.11	4102.69	0.26
E100-00-00_N034	94401.0	1PCT_100yr	12688.00	72.20	99.41	90.85	99.79	0.000776	5.48	5265.68	4275.00	0.26
E100-00-00_N034	93630.	10PCT_10yr	8383.00	76.23	97.55	86.83	97.69	0.000332	3.38	5440.63	1942.82	0.17
E100-00-00_N034	93630.	2PCT_50yr	11524.00	76.23	98.88	88.53	99.02	0.000329	3.61	7743.40	3517.98	0.18
E100-00-00_N034	93630.	1PCT_100yr	12688.00	76.23	99.24	89.12	99.36	0.000296	3.49	10606.54	3813.06	0.17
E100-00-00_N034	93534.0	10PCT_10yr	9617.00	76.73	97.32	87.30	97.61	0.000545	4.50	3895.38	2050.37	0.22
E100-00-00_N034	93534.0	2PCT_50yr	13253.00	76.73	98.64	89.05	98.93	0.000562	4.89	7563.13	3361.81	0.23
E100-00-00_N034	93534.0	1PCT_100yr	14528.00	76.73	98.96	89.61	99.27	0.000576	5.02	8680.65	3501.84	0.23
E100-00-00_N034	93477.0		Bridge									
E100-00-00_N034	93419.0	10PCT_10yr	9617.00	76.54	97.13	87.09	97.42	0.000546	4.51	3754.91	1841.86	0.22
E100-00-00_N034	93419.0	2PCT_50yr	13253.00	76.54	98.33	88.84	98.65	0.000600	5.02	6881.93	3355.80	0.24
E100-00-00_N034	93419.0	1PCT_100yr	14528.00	76.54	98.62	89.39	98.95	0.000626	5.20	7879.90	3515.74	0.24
E100-00-00_N034	93320.	10PCT_10yr	9617.00	76.22	97.02	87.53	97.35	0.000801	4.86	3375.29	1663.73	0.27
E100-00-00_N034	93320.	2PCT_50yr	13253.00	76.22	98.22	89.47	98.57	0.000837	5.34	6128.13	3503.18	0.28
E100-00-00_N034	93320.	1PCT_100yr	14528.00	76.22	98.50	90.14	98.87	0.000871	5.54	6956.87	3673.10	0.28
E100-00-00_N034	92851.0	10PCT_10yr	9617.00	74.72	96.71	87.00	97.02	0.000649	4.71	3357.14	1354.65	0.24
E100-00-00_N034	92851.0	2PCT_50yr	13253.00	74.72	97.84	89.65	98.22	0.000779	5.43	4678.84	2030.93	0.27
E100-00-00_N034	92851.0	1PCT_100yr	14528.00	74.72	98.08	90.18	98.50	0.000844	5.73	5006.03	2234.73	0.28
E100-00-00_N034	92147.	10PCT_10yr	9617.00	73.28	95.88		96.00	0.006369	1.51	4368.26	1163.89	0.08
E100-00-00_N034	92147.	2PCT_50yr	13253.00	73.28	96.91		97.06	0.006083	1.56	5937.22	2039.81	0.08
E100-00-00_N034	92147.	1PCT_100yr	14528.00	73.28	97.08		97.24	0.006608	1.64	6299.87	2346.50	0.08
E100-00-00_N034	91972.0	10PCT_10yr	9617.00	72.92	95.69	86.50	95.83	0.000393	3.55	6524.99	3447.99	0.19
E100-00-00_N034	91972.0	2PCT_50yr	13253.00	72.92	96.79	88.36	96.90	0.000335	3.49	10473.62	3734.25	0.18
E100-00-00_N034	91972.0	1PCT_100yr	14528.00	72.92	96.94	88.92	97.06	0.000361	3.66	11060.56	3767.20	0.18
E100-00-00_N034	91947.5		Bridge									
E100-00-00_N034	91923.0	10PCT_10yr	9617.00	73.59	95.54	87.14	95.82	0.000717	4.56	3923.15	2565.04	0.25
E100-00-00_N034	91923.0	2PCT_50yr	13253.00	73.59	96.31	89.02	96.60	0.000777	4.98	6334.88	3417.16	0.26
E100-00-00_N034	91923.0	1PCT_100yr	14528.00	73.59	96.55	89.55	96.83	0.000784	5.08	7153.26	3528.03	0.27
E100-00-00_N034	91823.	10PCT_10yr	9617.00	73.84	95.52		95.71	0.000524	4.10	6684.51	3780.94	0.23
E100-00-00_N034	91823.	2PCT_50yr	13253.00	73.84	96.31		96.47	0.000519	4.22	9714.41	3904.74	0.23
E100-00-00_N034	91823.	1PCT_100yr	14528.00	73.84	96.54		96.70	0.000517	4.25	10642.36	3921.04	0.23
E100-00-00_N034	91339.0	10PCT_10yr	9617.00	75.07	95.33		95.49	0.000374	3.99	7686.54	4230.48	0.19
E100-00-00_N034	91339.0	2PCT_50yr	13253.00	75.07	96.10		96.25	0.000384	4.19	11010.89	4315.11	0.19
E100-00-00_N034	91339.0	1PCT_100yr	14528.00	75.07	96.34		96.48	0.000387	4.25	12026.50	4335.12	0.19
E100-00-00_N034	90490.0	10PCT_10yr	9651.00	71.38	94.79		95.08	0.000629	4.85	5297.81	3173.21	0.24
E100-00-00_N034	90490.0	2PCT_50yr	12888.00	71.38	95.61		95.86	0.000605	4.95	7975.05	3376.80	0.24
E100-00-00_N034	90490.0	1PCT_100yr	14070.00	71.38	95.86		96.09	0.000603	5.00	8800.06	3444.19	0.24
E100-00-00_N034	88972.0	10PCT_10yr	9651.00	72.48	93.77		94.08	0.000715	4.97	4861.36	2827.62	0.25
E100-00-00_N034	88972.0	2PCT_50yr	12888.00	72.48	94.56		94.85	0.000751	5.26	7310.27	3389.06	0.26
E100-00-00_N034	88972.0	1PCT_100yr	14070.00	72.48	94.79		95.08	0.000768	5.37	8096.76	3520.39	0.27
E100-00-00_N034	87610.	10PCT_10yr	9651.00	74.16	92.80		93.03	0.000756	4.61	5227.65	2245.86	0.26
E100-00-00_N034	87610.	2PCT_50yr	12888.00	74.16	93.43		93.70	0.000926	5.31	6812.38	2969.38	0.29
E100-00-00_N034	87610.	1PCT_100yr	14070.00	74.16	93.60		93.89	0.000977	5.51	7340.58	3145.08	0.29
E100-00-00_N034	87508.0	10PCT_10yr	9651.00	74.29	92.62	85.41	92.92	0.000814	5.02	4648.38	2698.47	0.27
E100-00-00_N034	87508.0	2PCT_50yr	12888.00	74.29	93.32	87.04	93.61	0.000835	5.30	6762.50	3219.41	0.27
E100-00-00_N034	87508.0	1PCT_100yr	14070.00	74.29	93.50	87.60	93.79	0.000864	5.45	7336.79	3243.64	0.28
E100-00-00_N034	87449.0		Bridge									
E100-00-00_N034	87390.0	10PCT_10yr	9651.00	74.03	91.92	85.14	92.44	0.001263	6.13	2968.63	2213.58	0.33
E100-00-00_N034	87390.0	2PCT_50yr	12888.00	74.03	92.44	86.76	93.06	0.001565	7.00	4207.86	2529.31	0.37
E100-00-00_N034	87390.0	1PCT_100yr	14070.00	74.03	92.53	87.32	93.21	0.001738	7.42	4449.98	2617.67	0.39
E100-00-00_N034	87171.	10PCT_10yr	9651.00	73.93	91.22		92.03	0.001921	7.46	2305.39	2199.04	0.42
E100-00-00_N034	87171.	2PCT_50yr	12888.00	73.93	91.92		92.67	0.002012	7.81	4034.42	2621.35	0.43
E100-00-00_N034	87171.	1PCT_100yr	14070.00	73.93	92.18		92.86	0.001919	7.69	4729.00	2670.45	0.42
E100-00-00_N034	86621.0	10PCT_10yr	9651.00	73.68	91.55		91.59	0.000220	2.79	13535.51	3910.08	0.14
E100-00-00_N034	86621.0	2PCT_50yr	12888.00	73.68	92.17		92.21	0.000274	3.22	15995.78	4124.10	0.16

HEC-RAS Plan: Rev Ext River: E100-00-00 Reach: E100-00-00_N034 (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
E100-00-00_N034	86621.0	1PCT_100yr	14070.00	73.68	92.36		92.40	0.000293	3.36	16789.44	4134.35	0.17
E100-00-00_N034	85749.0	10PCT_10yr	9651.00	71.06	90.83		91.14	0.001231	5.57	4749.41	2840.59	0.32
E100-00-00_N034	85749.0	2PCT_50yr	12888.00	71.06	91.39		91.69	0.001308	5.91	6351.00	2872.08	0.33
E100-00-00_N034	85749.0	1PCT_100yr	14070.00	71.06	91.56		91.86	0.001343	6.03	6837.18	2875.67	0.34
E100-00-00_N034	84932.0	10PCT_10yr	9651.00	72.06	90.40	84.30	90.51	0.000462	3.61	10003.10	5213.39	0.20
E100-00-00_N034	84932.0	2PCT_50yr	12888.00	72.06	90.91	85.93	91.02	0.000502	3.89	12716.83	5377.20	0.21
E100-00-00_N034	84932.0	1PCT_100yr	14070.00	72.06	91.05	86.45	91.16	0.000525	4.01	13497.66	5431.34	0.22
E100-00-00_N034	84716.0	10PCT_10yr	9651.00	71.77	90.08	84.01	90.33	0.000918	4.95	6780.68	4512.77	0.28
E100-00-00_N034	84716.0	2PCT_50yr	12888.00	71.77	90.59	85.99	90.82	0.000992	5.23	9341.17	5270.22	0.29
E100-00-00_N034	84716.0	1PCT_100yr	14070.00	71.77	90.74	89.72	90.97	0.001009	5.30	10132.73	5300.30	0.29
E100-00-00_N034	84703.5		Bridge									
E100-00-00_N034	84692.0	10PCT_10yr	9651.00	71.62	89.94	83.83	90.19	0.000904	4.91	6855.88	4534.18	0.28
E100-00-00_N034	84692.0	2PCT_50yr	12888.00	71.62	90.42	85.83	90.66	0.001016	5.29	9222.56	5265.72	0.29
E100-00-00_N034	84692.0	1PCT_100yr	14070.00	71.62	90.57	89.53	90.80	0.001029	5.35	10033.08	5296.53	0.30
E100-00-00_N034	84548.0	10PCT_10yr	9651.00	71.51	89.78	85.69	90.04	0.001160	5.37	7106.46	5118.79	0.31
E100-00-00_N034	84548.0	2PCT_50yr	12888.00	71.51	90.27	87.55	90.49	0.001135	5.44	9712.88	5363.72	0.31
E100-00-00_N034	84548.0	1PCT_100yr	14070.00	71.51	90.43	88.14	90.63	0.001124	5.46	10547.40	5371.12	0.31
E100-00-00_N034	83815.0	10PCT_10yr	9651.00	71.88	89.41	83.93	89.50	0.000431	3.37	10758.08	6368.52	0.19
E100-00-00_N034	83815.0	2PCT_50yr	12888.00	71.88	89.88	85.55	89.95	0.000447	3.51	13883.56	6880.32	0.20
E100-00-00_N034	83815.0	1PCT_100yr	14070.00	71.88	90.02	86.09	90.10	0.000455	3.56	14866.74	6942.48	0.20
E100-00-00_N034	82633.0	10PCT_10yr	10236.00	69.63	88.50	82.01	88.84	0.001053	5.51	6178.54	6374.43	0.30
E100-00-00_N034	82633.0	2PCT_50yr	14226.00	69.63	89.12	84.22	89.36	0.000957	5.34	10344.49	7057.42	0.29
E100-00-00_N034	82633.0	1PCT_100yr	15794.00	69.63	89.29	85.00	89.51	0.000944	5.34	11586.96	7088.26	0.29
E100-00-00_N034	81638.0	10PCT_10yr	10236.00	69.86	87.57	81.59	87.85	0.000979	5.05	6294.90	5242.27	0.29
E100-00-00_N034	81638.0	2PCT_50yr	14226.00	69.86	88.30	83.63	88.49	0.000834	4.84	10842.31	6967.42	0.27
E100-00-00_N034	81638.0	1PCT_100yr	15794.00	69.86	88.49	87.09	88.67	0.000820	4.85	12270.64	7610.57	0.27
E100-00-00_N034	80800.0	10PCT_10yr	10236.00	67.77	86.52	80.96	86.96	0.001258	5.93	4255.44	3264.67	0.33
E100-00-00_N034	80800.0	2PCT_50yr	14226.00	67.77	87.20	82.70	87.64	0.001396	6.47	6982.03	5786.95	0.35
E100-00-00_N034	80800.0	1PCT_100yr	15794.00	67.77	87.43	83.34	87.85	0.001373	6.51	8202.47	6070.27	0.35
E100-00-00_N034	79748.0	10PCT_10yr	10236.00	68.10	85.59	80.35	85.83	0.000881	4.88	6440.01	4780.53	0.28
E100-00-00_N034	79748.0	2PCT_50yr	14226.00	68.10	86.61	82.09	86.73	0.000541	4.04	11733.45	5444.67	0.22
E100-00-00_N034	79748.0	1PCT_100yr	15794.00	68.10	86.86	82.76	86.96	0.000519	4.00	13086.79	5521.95	0.22
E100-00-00_N034	78804.0	10PCT_10yr	10236.00	66.31	84.99	78.26	85.18	0.000638	4.37	7602.15	4572.57	0.24
E100-00-00_N034	78804.0	2PCT_50yr	14226.00	66.31	86.25	80.30	86.35	0.000401	3.70	14182.49	6555.31	0.19
E100-00-00_N034	78804.0	1PCT_100yr	15794.00	66.31	86.50	80.97	86.59	0.000397	3.74	15637.17	6700.51	0.19
E100-00-00_N034	77625.0	10PCT_10yr	10236.00	62.52	83.71	77.91	84.17	0.001389	6.19	4326.18	3094.79	0.34
E100-00-00_N034	77625.0	2PCT_50yr	14226.00	62.52	85.81	80.02	85.92	0.000447	3.93	13595.71	7248.47	0.20
E100-00-00_N034	77625.0	1PCT_100yr	15794.00	62.52	86.13	83.74	86.21	0.000365	3.62	17608.19	7463.45	0.18
E100-00-00_N034	77447.0	10PCT_10yr	10236.00	65.33	83.54	76.14	84.08	0.000164	6.14	4451.95	2808.33	0.32
E100-00-00_N034	77447.0	2PCT_50yr	14226.00	65.33	85.26	78.11	85.71	0.000137	6.13	11049.15	5403.60	0.30
E100-00-00_N034	77447.0	1PCT_100yr	15794.00	65.33	85.47	78.81	85.97	0.000151	6.51	12100.55	6024.84	0.32
E100-00-00_N034	77436.5		Inline Weir									
E100-00-00_N034	77436.0	10PCT_10yr	10236.00	65.38	83.53	74.72	83.93	0.000109	5.21	4761.63	2819.19	0.27
E100-00-00_N034	77436.0	2PCT_50yr	14226.00	65.38	85.25	76.55	85.61	0.000099	5.37	11538.65	6196.28	0.26
E100-00-00_N034	77436.0	1PCT_100yr	15794.00	65.38	85.46	77.19	85.86	0.000110	5.73	12626.01	6602.60	0.28
E100-00-00_N034	77333.	10PCT_10yr	10236.00	64.36	83.53	74.29	83.90	0.000101	5.08	5079.39	2694.82	0.26
E100-00-00_N034	77333.	2PCT_50yr	14226.00	64.36	85.25	76.15	85.58	0.000093	5.15	12149.08	6526.16	0.27
E100-00-00_N034	77333.	1PCT_100yr	15794.00	64.36	85.47	76.82	85.82	0.000103	5.46	13263.74	6822.48	0.28
E100-00-00_N034	77129.0	10PCT_10yr	11351.00	62.35	83.26	74.00	83.83	0.000999	6.05	1874.77	2270.75	0.30
E100-00-00_N034	77129.0	2PCT_50yr	15488.00	62.35	85.30	75.93	85.48	0.000411	4.27	11215.97	5432.12	0.20
E100-00-00_N034	77129.0	1PCT_100yr	18013.00	62.35	85.51	77.01	85.71	0.000491	4.71	12000.34	5611.42	0.22
E100-00-00_N034	76222.0	10PCT_10yr	11351.00	63.51	82.14	74.34	82.80	0.001280	6.52	1740.89	1111.10	0.34
E100-00-00_N034	76222.0	2PCT_50yr	15488.00	63.51	84.67	76.21	84.98	0.000675	5.23	7865.37	4002.56	0.25
E100-00-00_N034	76222.0	1PCT_100yr	18013.00	63.51	84.63	77.21	85.06	0.000934	6.14	7751.36	4001.21	0.30
E100-00-00_N034	76041.0	10PCT_10yr	11351.00	61.17	81.99	72.67	82.53	0.001041	5.96	2177.00	1273.81	0.31
E100-00-00_N034	76041.0	2PCT_50yr	15488.00	61.17	84.32	74.74	84.79	0.000861	5.92	4626.06	3389.58	0.28
E100-00-00_N034	76041.0	1PCT_100yr	18013.00	61.17	84.53	75.86	84.88	0.000766	5.62	8239.71	3819.30	0.27
E100-00-00_N034	75984.0		Bridge									
E100-00-00_N034	75927.0	10PCT_10yr	11351.00	64.54	80.79	76.10	81.97	0.002971	8.70	1308.66	183.62	0.50
E100-00-00_N034	75927.0	2PCT_50yr	15488.00	64.54	82.46	78.01	83.71	0.003001	9.31	2090.06	1563.52	0.51
E100-00-00_N034	75927.0	1PCT_100yr	18013.00	64.54	83.98	79.00	84.42	0.001394	6.50	6181.81	3033.42	0.35
E100-00-00_N034	75698.0	10PCT_10yr	11351.00	61.92	80.35	74.57	81.28	0.002060	7.72	1470.87	368.38	0.43

E100-00-00 Revised Existing
HEC-RAS Output

HEC-RAS Plan: Rev Ext River: E100-00-00 Reach: E100-00-00_N034 (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
E100-00-00_N034	75698.0	2PCT_50yr	15488.00	61.92	81.83	76.42	83.08	0.002581	9.04	2053.40	1875.52	0.48
E100-00-00_N034	75698.0	1PCT_100yr	18013.00	61.92	82.04	77.41	83.62	0.003252	10.21	2255.31	2058.27	0.54
E100-00-00_N034	75102.0	10PCT_10yr	11351.00	61.74	80.57		80.65	0.000288	3.23	7111.02	943.06	0.16
E100-00-00_N034	75102.0	2PCT_50yr	15488.00	61.74	82.23		82.31	0.000309	3.52	9564.71	2343.78	0.17
E100-00-00_N034	75102.0	1PCT_100yr	18013.00	61.74	82.57		82.67	0.000370	3.89	10409.10	2590.94	0.19
E100-00-00_N034	74115.0	10PCT_10yr	11351.00	61.56	80.49		80.50	0.000079	1.68	15298.47	2541.67	0.09
E100-00-00_N034	74115.0	2PCT_50yr	15488.00	61.56	82.14		82.15	0.000084	1.83	20035.16	3336.61	0.09
E100-00-00_N034	74115.0	1PCT_100yr	18013.00	61.56	82.46		82.48	0.000101	2.04	21187.71	3789.45	0.10
E100-00-00_N034	73083.0	10PCT_10yr	11351.00	61.68	79.79	72.03	80.35	0.000157	6.07	2982.80	3052.40	0.32
E100-00-00_N034	73083.0	2PCT_50yr	15488.00	61.68	81.33	73.83	81.98	0.000169	6.81	5137.15	4378.48	0.34
E100-00-00_N034	73083.0	1PCT_100yr	18013.00	61.68	81.39	74.79	82.26	0.000224	7.86	5225.01	4434.73	0.39
E100-00-00_N034	72999.0	10PCT_10yr	11351.00	61.53	79.75	71.92	80.33	0.000155	6.13	1852.98	4580.89	0.32
E100-00-00_N034	72999.0	2PCT_50yr	15488.00	61.53	81.53	73.71	81.74	0.000075	4.68	15305.62	5054.89	0.23
E100-00-00_N034	72999.0	1PCT_100yr	18013.00	61.53	81.67	74.66	81.94	0.000095	5.31	15767.30	5085.08	0.26
E100-00-00_N034	72983.0		Bridge									
E100-00-00_N034	72965.0	10PCT_10yr	11351.00	61.71	78.44	72.10	79.21	0.000238	7.03	1614.39	3343.75	0.39
E100-00-00_N034	72965.0	2PCT_50yr	15488.00	61.71	79.46	73.89	80.64	0.000331	8.71	1777.95	4385.95	0.46
E100-00-00_N034	72965.0	1PCT_100yr	18013.00	61.71	79.76	74.84	81.27	0.000410	9.87	1825.83	4617.76	0.52
E100-00-00_N034	72931.0	10PCT_10yr	11351.00	61.69	78.45	71.63	79.18	0.000220	6.85	1710.43	4274.40	0.37
E100-00-00_N034	72931.0	2PCT_50yr	15488.00	61.69	79.49	73.47	80.59	0.000300	8.46	1986.45	4641.68	0.44
E100-00-00_N034	72931.0	1PCT_100yr	18013.00	61.69	79.80	74.48	81.20	0.000369	9.55	2071.58	4651.32	0.49
E100-00-00_N034	72919.5		Bridge									
E100-00-00_N034	72908.0	10PCT_10yr	11351.00	61.69	78.37	71.63	79.11	0.000225	6.91	1678.70	4035.26	0.38
E100-00-00_N034	72908.0	2PCT_50yr	15488.00	61.69	79.35	73.47	80.48	0.000312	8.56	2004.05	4636.06	0.45
E100-00-00_N034	72908.0	1PCT_100yr	18013.00	61.69	79.60	74.49	81.05	0.000390	9.71	2092.33	4642.86	0.51
E100-00-00_N034	72828.0	10PCT_10yr	11082.00	61.70	78.37	71.46	79.09	0.000207	6.83	1816.58	3160.56	0.37
E100-00-00_N034	72828.0	2PCT_50yr	15326.00	61.70	79.34	73.34	80.45	0.000299	8.53	2607.07	3695.84	0.45
E100-00-00_N034	72828.0	1PCT_100yr	17509.00	61.70	79.62	74.20	80.97	0.000356	9.42	2912.95	3873.61	0.49
E100-00-00_N034	71493.0	10PCT_10yr	11082.00	60.53	78.18	70.48	78.51	0.000767	5.07	5041.22	2635.03	0.27
E100-00-00_N034	71493.0	2PCT_50yr	15326.00	60.53	79.43	72.35	79.66	0.000620	4.87	9016.69	3722.03	0.24
E100-00-00_N034	71493.0	1PCT_100yr	17509.00	60.53	79.84	73.20	80.06	0.000609	4.93	10480.47	3953.74	0.24
E100-00-00_N034	70642.	10PCT_10yr	11082.00	57.60	77.70	68.77	77.92	0.000619	4.24	5042.97	2630.30	0.25
E100-00-00_N034	70642.	2PCT_50yr	15326.00	57.60	79.13	70.76	79.25	0.000390	3.64	10162.90	4103.99	0.20
E100-00-00_N034	70642.	1PCT_100yr	17509.00	57.60	79.56	71.65	79.67	0.000366	3.60	11959.57	4222.96	0.19
E100-00-00_N034	70472.0	10PCT_10yr	11082.00	57.02	77.49	68.47	77.80	0.000669	4.81	4364.07	2627.62	0.25
E100-00-00_N034	70472.0	2PCT_50yr	15326.00	57.02	79.01	70.42	79.18	0.000449	4.18	9517.74	4003.64	0.21
E100-00-00_N034	70472.0	1PCT_100yr	17509.00	57.02	79.45	71.30	79.60	0.000432	4.19	11295.35	4154.83	0.20
E100-00-00_N034	70461.5		Bridge									
E100-00-00_N034	70450.0	10PCT_10yr	11082.00	57.01	77.44	68.46	77.76	0.000682	4.85	4287.26	2559.15	0.25
E100-00-00_N034	70450.0	2PCT_50yr	15326.00	57.01	78.93	70.41	79.11	0.000476	4.28	9198.95	3785.61	0.21
E100-00-00_N034	70450.0	1PCT_100yr	17509.00	57.01	79.35	71.29	79.52	0.000456	4.29	10882.72	4101.85	0.21
E100-00-00_N034	70347.0	10PCT_10yr	11082.00	57.23	77.38	68.61	77.63	0.000617	4.44	4744.10	2748.01	0.23
E100-00-00_N034	70347.0	2PCT_50yr	15326.00	57.23	78.85	70.49	79.02	0.000440	4.07	9633.14	5403.77	0.20
E100-00-00_N034	70347.0	1PCT_100yr	17509.00	57.23	79.27	71.37	79.43	0.000431	4.12	11227.44	5589.82	0.20
E100-00-00_N034	70306.5		Bridge									
E100-00-00_N034	70266.0	10PCT_10yr	11082.00	57.62	77.39	69.00	77.60	0.000568	4.18	5995.26	3094.25	0.22
E100-00-00_N034	70266.0	2PCT_50yr	15326.00	57.62	78.73	70.88	78.87	0.000421	3.88	10639.72	5372.83	0.20
E100-00-00_N034	70266.0	1PCT_100yr	17509.00	57.62	79.16	71.72	79.28	0.000406	3.89	12257.60	5573.61	0.19
E100-00-00_N034	70166.	10PCT_10yr	11082.00	57.58	77.15	68.91	77.49	0.000897	5.08	4027.26	2298.83	0.28
E100-00-00_N034	70166.	2PCT_50yr	15326.00	57.58	78.62	70.98	78.80	0.000675	4.34	8669.80	4476.40	0.24
E100-00-00_N034	70166.	1PCT_100yr	17509.00	57.58	79.08	71.92	79.23	0.000641	4.16	10357.20	4970.00	0.24
E100-00-00_N034	69408.0	10PCT_10yr	11082.00	57.30	76.83		77.02	0.000439	4.09	6174.72	3056.97	0.20
E100-00-00_N034	69408.0	2PCT_50yr	15326.00	57.30	78.37		78.49	0.000316	3.75	12700.13	5427.27	0.18
E100-00-00_N034	69408.0	1PCT_100yr	17509.00	57.30	78.83		78.95	0.000306	3.76	15397.80	6137.45	0.17
E100-00-00_N034	68633.	10PCT_10yr	11082.00	54.59	76.31		76.59	0.000739	4.56	5398.41	2755.39	0.25
E100-00-00_N034	68633.	2PCT_50yr	15326.00	54.59	78.04		78.21	0.000480	4.09	12056.70	5193.56	0.21
E100-00-00_N034	68633.	1PCT_100yr	17509.00	54.59	78.52		78.68	0.000457	4.10	14885.50	6488.52	0.21
E100-00-00_N034	68533.0	10PCT_10yr	11082.00	54.24	75.80	67.01	76.40	0.001115	6.20	1787.21	2451.35	0.32
E100-00-00_N034	68533.0	2PCT_50yr	15326.00	54.24	77.94	69.02	78.16	0.000516	4.62	11332.31	5128.56	0.22
E100-00-00_N034	68533.0	1PCT_100yr	17509.00	54.24	78.44	69.91	78.63	0.000487	4.60	14163.66	6300.24	0.22
E100-00-00_N034	68518.0		Bridge									

HEC-RAS Plan: Rev Ext River: E100-00-00 Reach: E100-00-00_N034 (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
E100-00-00_N034	68503.0	10PCT_10yr	11082.00	54.87	75.65	67.64	76.28	0.001265	6.46	2392.41	1405.37	0.34
E100-00-00_N034	68503.0	2PCT_50yr	15326.00	54.87	77.48	69.59	77.93	0.000997	6.08	6852.11	3145.73	0.30
E100-00-00_N034	68503.0	1PCT_100yr	17509.00	54.87	78.01	70.47	78.42	0.000953	6.10	8720.97	4075.82	0.30
E100-00-00_N034	68398.	10PCT_10yr	11082.00	54.97	75.75		76.00	0.000720	4.46	5366.34	2704.45	0.25
E100-00-00_N034	68398.	2PCT_50yr	15326.00	54.97	77.56		77.70	0.000427	3.85	11819.20	5163.87	0.20
E100-00-00_N034	68398.	1PCT_100yr	17509.00	54.97	78.09		78.22	0.000402	3.85	14904.70	6343.87	0.20
E100-00-00_N034	67624.0	10PCT_10yr	11082.00	55.72	74.59	67.17	75.22	0.001254	6.40	1970.33	854.04	0.34
E100-00-00_N034	67624.0	2PCT_50yr	15326.00	55.72	76.86	69.05	77.21	0.000754	5.51	7366.64	3826.18	0.27
E100-00-00_N034	67624.0	1PCT_100yr	17509.00	55.72	77.46	69.91	77.76	0.000674	5.37	9885.14	4530.31	0.26
E100-00-00_N034	67364.0	10PCT_10yr	11082.00	56.86	74.34	66.72	74.89	0.001040	5.98	1869.85	1211.07	0.31
E100-00-00_N034	67364.0	2PCT_50yr	15326.00	56.86	76.80	68.47	76.98	0.000409	4.27	9221.41	4058.69	0.20
E100-00-00_N034	67364.0	1PCT_100yr	17509.00	56.86	77.42	69.26	77.56	0.000341	4.01	11884.95	4504.55	0.19
E100-00-00_N034	67306.5		Bridge									
E100-00-00_N034	67246.0	10PCT_10yr	11082.00	55.91	74.39	65.76	74.86	0.000807	5.54	2020.38	1284.81	0.28
E100-00-00_N034	67246.0	2PCT_50yr	15326.00	55.91	76.56	67.49	76.78	0.000424	4.47	8422.67	3743.90	0.21
E100-00-00_N034	67246.0	1PCT_100yr	17509.00	55.91	77.22	68.29	77.38	0.000354	4.20	11117.08	4419.93	0.19
E100-00-00_N034	67095.	10PCT_10yr	11082.00	54.40	74.14	65.81	74.69	0.001330	6.06	2262.34	682.46	0.34
E100-00-00_N034	67095.	2PCT_50yr	15326.00	54.40	76.33	67.92	76.66	0.000903	5.24	7014.89	3353.81	0.29
E100-00-00_N034	67095.	1PCT_100yr	17509.00	54.40	77.04	68.91	77.28	0.000726	4.90	9824.16	4612.54	0.26
E100-00-00_N034	66832.0	10PCT_10yr	11082.00	51.77	73.89	64.71	74.38	0.000927	5.66	1956.30	1025.16	0.29
E100-00-00_N034	66832.0	2PCT_50yr	15326.00	51.77	76.17	66.74	76.48	0.000599	5.05	7636.33	3486.47	0.24
E100-00-00_N034	66832.0	1PCT_100yr	17509.00	51.77	76.92	67.64	77.16	0.000493	4.75	10489.43	4103.00	0.22
E100-00-00_N034	66821.5		Bridge									
E100-00-00_N034	66806.0	10PCT_10yr	11082.00	51.65	73.83	64.60	74.32	0.000913	5.64	1966.09	1045.63	0.29
E100-00-00_N034	66806.0	2PCT_50yr	15326.00	51.65	75.97	66.58	76.29	0.000628	5.15	7336.61	3373.92	0.25
E100-00-00_N034	66806.0	1PCT_100yr	17509.00	51.65	76.75	67.48	77.00	0.000508	4.81	10288.78	4060.22	0.22
E100-00-00_N034	66695.0	10PCT_10yr	11082.00	51.35	73.89	63.12	74.20	0.000114	4.43	2498.99	2519.23	0.21
E100-00-00_N034	66695.0	2PCT_50yr	15326.00	51.35	76.01	64.66	76.22	0.000089	4.19	12415.06	3967.28	0.19
E100-00-00_N034	66695.0	1PCT_100yr	17509.00	51.35	76.76	65.37	76.96	0.000085	4.20	15499.14	4267.69	0.18
E100-00-00_N034	66641.5		Bridge									
E100-00-00_N034	66585.0	10PCT_10yr	11082.00	51.13	73.44	62.90	73.75	0.000121	4.51	2457.26	2268.96	0.21
E100-00-00_N034	66585.0	2PCT_50yr	15326.00	51.13	75.86	64.41	76.09	0.000092	4.25	11879.91	3908.47	0.19
E100-00-00_N034	66585.0	1PCT_100yr	17509.00	51.13	76.60	65.13	76.82	0.000087	4.28	14874.86	4187.45	0.19
E100-00-00_N034	66480.	10PCT_10yr	11082.00	51.54	73.23	63.28	73.69	0.000900	5.40	2053.38	587.35	0.29
E100-00-00_N034	66480.	2PCT_50yr	15326.00	51.54	75.80	65.38	76.06	0.000624	4.59	7670.97	3789.34	0.24
E100-00-00_N034	66480.	1PCT_100yr	17509.00	51.54	76.60	66.32	76.79	0.000493	4.24	11118.55	4612.50	0.22
E100-00-00_N034	65878.0	10PCT_10yr	11082.00	53.89	72.42	64.75	73.04	0.001211	6.35	1884.00	525.95	0.33
E100-00-00_N034	65878.0	2PCT_50yr	15326.00	53.89	75.35	66.66	75.66	0.000654	5.19	8215.97	4676.06	0.25
E100-00-00_N034	65878.0	1PCT_100yr	17509.00	53.89	76.32	67.52	76.50	0.000433	4.42	12951.44	5114.19	0.21
E100-00-00_N034	65650.	10PCT_10yr	11082.00	49.14	72.34	61.15	72.76	0.000813	5.21	2348.68	592.55	0.27
E100-00-00_N034	65650.	2PCT_50yr	15326.00	49.14	75.24	63.20	75.51	0.000594	4.62	6376.94	2660.27	0.23
E100-00-00_N034	65650.	1PCT_100yr	17509.00	49.14	76.22	64.17	76.41	0.000438	4.18	9869.91	3042.69	0.20
E100-00-00_N034	65504.0	10PCT_10yr	11082.00	49.14	72.37	61.23	72.66	0.000104	4.29	2582.89	596.54	0.20
E100-00-00_N034	65504.0	2PCT_50yr	15326.00	49.14	75.18	62.67	75.47	0.000098	4.51	7781.64	2783.70	0.20
E100-00-00_N034	65504.0	1PCT_100yr	17509.00	49.14	76.06	63.35	76.35	0.000095	4.61	10308.16	3025.10	0.20
E100-00-00_N034	65467.5		Bridge									
E100-00-00_N034	65425.0	10PCT_10yr	11082.00	51.86	72.11	63.94	72.54	0.000200	5.27	2100.99	478.43	0.27
E100-00-00_N034	65425.0	2PCT_50yr	15326.00	51.86	75.01	65.36	75.40	0.000161	5.25	6873.38	2730.48	0.25
E100-00-00_N034	65425.0	1PCT_100yr	17509.00	51.86	75.89	66.07	76.25	0.000150	5.27	9348.71	2938.45	0.24
E100-00-00_N034	65422.0	10PCT_10yr	11082.00	52.40	71.73	63.59	72.45	0.000332	6.99	2667.06	977.94	0.35
E100-00-00_N034	65422.0	2PCT_50yr	15326.00	52.40	74.91	65.79	75.38	0.000204	6.23	7591.73	2123.71	0.28
E100-00-00_N034	65422.0	1PCT_100yr	17509.00	52.40	75.78	66.80	76.23	0.000192	6.28	9621.38	2490.34	0.27
E100-00-00_N034	65411.0		Bridge									
E100-00-00_N034	65401.0	10PCT_10yr	11082.00	52.40	71.69	63.55	72.42	0.000336	7.01	2634.31	964.26	0.35
E100-00-00_N034	65401.0	2PCT_50yr	15326.00	52.40	74.65	65.74	75.16	0.000224	6.46	7038.90	1997.89	0.29
E100-00-00_N034	65401.0	1PCT_100yr	17509.00	52.40	75.50	66.74	75.99	0.000214	6.55	8897.43	2385.76	0.29
E100-00-00_N034	65268.	10PCT_10yr	11082.00	53.09	71.57		72.33	0.001611	6.98	1588.40	151.14	0.38
E100-00-00_N034	65268.	2PCT_50yr	15326.00	53.09	74.18		75.00	0.001640	7.39	2625.68	973.35	0.39
E100-00-00_N034	65268.	1PCT_100yr	17509.00	53.09	75.04		75.84	0.001576	7.44	3602.14	1297.24	0.38
E100-00-00_N034	65068.0	10PCT_10yr	11082.00	54.12	71.30	64.33	72.02	0.001437	6.79	1633.21	148.54	0.36
E100-00-00_N034	65068.0	2PCT_50yr	15326.00	54.12	73.86	66.18	74.70	0.001459	7.41	2492.86	780.69	0.37
E100-00-00_N034	65068.0	1PCT_100yr	17509.00	54.12	74.67	67.03	75.53	0.001487	7.67	3196.37	944.27	0.38

E100-00-00 Revised Existing
HEC-RAS Output

HEC-RAS Plan: Rev Ext River: E100-00-00 Reach: E100-00-00_N034 (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
E100-00-00_N034	63780.0	10PCT_10yr	13281.00	49.90	70.59	62.11	71.31	0.000314	6.82	1972.02	228.24	0.34
E100-00-00_N034	63780.0	2PCT_50yr	18535.00	49.90	73.02	64.31	73.93	0.000353	7.72	3460.59	1162.93	0.37
E100-00-00_N034	63780.0	1PCT_100yr	21196.00	49.90	73.80	65.29	74.75	0.000360	8.04	5321.67	3041.62	0.38
E100-00-00_N034	62890.0	10PCT_10yr	13281.00	51.59	70.31		71.03	0.000313	6.79	1956.24	160.07	0.34
E100-00-00_N034	62890.0	2PCT_50yr	18535.00	51.59	72.76		73.60	0.000329	7.50	4420.21	2380.56	0.36
E100-00-00_N034	62890.0	1PCT_100yr	21196.00	51.59	73.60		74.41	0.000313	7.61	6456.56	2598.81	0.35
E100-00-00_N034	61936.0	10PCT_10yr	13281.00	50.02	70.02		70.74	0.000294	6.78	1959.73	180.51	0.33
E100-00-00_N034	61936.0	2PCT_50yr	18535.00	50.02	72.47		73.31	0.000317	7.52	4650.92	1979.44	0.35
E100-00-00_N034	61936.0	1PCT_100yr	21196.00	50.02	73.28		74.12	0.000319	7.73	6331.23	2152.68	0.36
E100-00-00_N034	60759.0	10PCT_10yr	13281.00	49.86	70.18		70.25	0.000201	3.09	9266.87	1219.02	0.14
E100-00-00_N034	60759.0	2PCT_50yr	18535.00	49.86	72.72		72.79	0.000194	3.34	14127.88	2670.24	0.14
E100-00-00_N034	60759.0	1PCT_100yr	21196.00	49.86	73.54		73.61	0.000194	3.44	16439.78	2961.88	0.14
E100-00-00_N034	59972.0	10PCT_10yr	13281.00	47.43	69.35	59.61	69.94	0.000926	6.17	2200.62	387.38	0.30
E100-00-00_N034	59972.0	2PCT_50yr	18535.00	47.43	71.85	61.81	72.48	0.000900	6.63	4108.89	1247.14	0.30
E100-00-00_N034	59972.0	1PCT_100yr	21196.00	47.43	72.65	62.75	73.30	0.000908	6.89	5027.82	1448.27	0.30
E100-00-00_N034	58797.0	10PCT_10yr	13281.00	46.43	69.62	55.66	69.64	0.000044	1.50	10470.74	1499.14	0.07
E100-00-00_N034	58797.0	2PCT_50yr	18535.00	46.43	72.13	56.31	72.16	0.000049	1.71	14713.95	2347.61	0.07
E100-00-00_N034	58797.0	1PCT_100yr	21196.00	46.43	72.93	56.61	72.96	0.000054	1.83	16274.56	2628.71	0.08
E100-00-00_N034	57918.0	10PCT_10yr	13281.00	45.69	69.13		69.51	0.000510	4.94	2973.31	500.86	0.23
E100-00-00_N034	57918.0	2PCT_50yr	18535.00	45.69	71.61		72.02	0.000506	5.38	5527.99	1479.68	0.23
E100-00-00_N034	57918.0	1PCT_100yr	21196.00	45.69	72.39		72.81	0.000518	5.61	6951.36	2025.00	0.23
E100-00-00_N034	57015.	10PCT_10yr	13281.00	43.29	68.63		69.00	0.000612	4.97	3204.43	730.33	0.24
E100-00-00_N034	57015.	2PCT_50yr	18535.00	43.29	71.24		71.53	0.000509	4.74	7641.17	2479.68	0.22
E100-00-00_N034	57015.	1PCT_100yr	21196.00	43.29	72.07		72.33	0.000460	4.68	9916.41	2996.51	0.22
E100-00-00_N034	56811.0	10PCT_10yr	13281.00	42.75	68.64	55.33	68.82	0.000298	3.46	3838.93	445.52	0.17
E100-00-00_N034	56811.0	2PCT_50yr	18535.00	42.75	71.20	57.28	71.41	0.000301	3.77	6979.00	1983.01	0.18
E100-00-00_N034	56811.0	1PCT_100yr	21196.00	42.75	72.01	58.11	72.23	0.000298	3.89	8743.84	2284.82	0.18
E100-00-00_N034	56718.5		Bridge									
E100-00-00_N034	56621.0	10PCT_10yr	13281.00	42.87	68.29	55.45	68.49	0.000328	3.59	3736.90	394.65	0.18
E100-00-00_N034	56621.0	2PCT_50yr	18535.00	42.87	70.49	57.37	70.75	0.000387	4.12	5555.08	1498.05	0.20
E100-00-00_N034	56621.0	1PCT_100yr	21196.00	42.87	71.23	58.21	71.51	0.000405	4.35	6809.16	1929.06	0.20
E100-00-00_N034	56486.	10PCT_10yr	13281.00	43.69	68.00		68.38	0.000601	4.96	2721.62	336.01	0.24
E100-00-00_N034	56486.	2PCT_50yr	18535.00	43.69	70.27		70.65	0.000560	5.24	6514.79	2504.63	0.24
E100-00-00_N034	56486.	1PCT_100yr	21196.00	43.69	71.08		71.43	0.000519	5.22	8711.90	2934.70	0.23
E100-00-00_N034	56239.0	10PCT_10yr	13281.00	45.18	67.86		68.28	0.000280	5.16	2738.35	699.95	0.24
E100-00-00_N034	56239.0	2PCT_50yr	18535.00	45.18	70.09		70.55	0.000303	5.68	6599.60	2746.35	0.25
E100-00-00_N034	56239.0	1PCT_100yr	21196.00	45.18	70.89		71.33	0.000292	5.76	9007.69	3246.42	0.24
E100-00-00_N034	56231.0	10PCT_10yr	13281.00	41.74	67.88		68.27	0.000285	4.99	2910.24	678.15	0.23
E100-00-00_N034	56231.0	2PCT_50yr	18535.00	41.74	70.11		70.54	0.000313	5.52	6659.12	2773.63	0.24
E100-00-00_N034	56231.0	1PCT_100yr	21196.00	41.74	70.91		71.32	0.000302	5.59	9084.79	3286.36	0.24
E100-00-00_N034	55757.0	10PCT_10yr	17368.00	41.59	67.43	56.81	68.06	0.000478	6.40	2867.19	451.07	0.29
E100-00-00_N034	55757.0	2PCT_50yr	23155.00	41.59	69.56	58.70	70.32	0.000511	7.15	4702.88	1435.01	0.31
E100-00-00_N034	55757.0	1PCT_100yr	26187.00	41.59	70.27	59.61	71.09	0.000534	7.52	5630.74	1641.48	0.32
E100-00-00_N034	55190.	10PCT_10yr	17368.00	41.48	67.12	56.43	67.77	0.000580	6.47	2707.11	265.96	0.31
E100-00-00_N034	55190.	2PCT_50yr	23155.00	41.48	69.21	58.48	69.99	0.000672	7.22	4523.37	2051.52	0.33
E100-00-00_N034	55190.	1PCT_100yr	26187.00	41.48	69.96	59.42	70.74	0.000666	7.36	6538.82	2244.06	0.33
E100-00-00_N034	55112.0	10PCT_10yr	17368.00	41.47	67.06	56.65	67.72	0.000509	6.54	2657.89	248.34	0.30
E100-00-00_N034	55112.0	2PCT_50yr	23155.00	41.47	69.09	58.56	69.92	0.000602	7.43	4567.13	1922.00	0.33
E100-00-00_N034	55112.0	1PCT_100yr	26187.00	41.47	69.76	59.47	70.65	0.000644	7.81	5926.15	2286.13	0.34
E100-00-00_N034	55086.0		Bridge									
E100-00-00_N034	55059.0	10PCT_10yr	17368.00	41.06	66.96	56.24	67.60	0.000484	6.40	2714.28	226.26	0.29
E100-00-00_N034	55059.0	2PCT_50yr	23155.00	41.06	68.86	58.15	69.70	0.000597	7.45	4064.38	1808.96	0.32
E100-00-00_N034	55059.0	1PCT_100yr	26187.00	41.06	69.44	59.06	70.38	0.000660	7.95	5116.91	2029.76	0.34
E100-00-00_N034	54895.0	10PCT_10yr	17368.00	41.14	66.91		67.47	0.000637	6.01	2891.36	266.33	0.32
E100-00-00_N034	54895.0	2PCT_50yr	23155.00	41.14	68.85		69.50	0.000703	6.54	4832.13	1698.06	0.33
E100-00-00_N034	54895.0	1PCT_100yr	26187.00	41.14	69.45		70.14	0.000725	6.85	5917.40	1933.33	0.34
E100-00-00_N034	54667.0	10PCT_10yr	17368.00	41.24	66.76	55.60	67.34	0.000387	6.19	2901.06	382.08	0.29
E100-00-00_N034	54667.0	2PCT_50yr	23155.00	41.24	68.61	57.65	69.34	0.000452	7.00	5122.91	1878.49	0.31
E100-00-00_N034	54667.0	1PCT_100yr	26187.00	41.24	69.18	58.61	69.97	0.000483	7.40	6244.11	2073.62	0.32
E100-00-00_N034	54606.0		Bridge									
E100-00-00_N034	54545.0	10PCT_10yr	17368.00	40.55	66.27	54.87	66.85	0.000375	6.12	2878.22	342.48	0.28
E100-00-00_N034	54545.0	2PCT_50yr	23155.00	40.55	68.59	56.93	69.26	0.000398	6.74	5211.10	1871.55	0.29

E100-00-00 Revised Existing
HEC-RAS Output

HEC-RAS Plan: Rev Ext River: E100-00-00 Reach: E100-00-00_N034 (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
E100-00-00_N034	54545.0	1PCT_100yr	26187.00	40.55	69.20	57.90	69.93	0.000423	7.12	6421.05	2080.85	0.30
E100-00-00_N034	54398.	10PCT_10yr	17368.00	40.59	66.26		66.75	0.000442	5.61	3350.05	637.11	0.26
E100-00-00_N034	54398.	2PCT_50yr	23155.00	40.59	68.61		69.12	0.000404	5.95	6481.32	1908.28	0.26
E100-00-00_N034	54398.	1PCT_100yr	26187.00	40.59	69.24		69.77	0.000422	6.23	7731.08	2093.00	0.27
E100-00-00_N034	54053.0	10PCT_10yr	17368.00	40.70	66.04		66.60	0.000384	6.10	3522.21	762.71	0.27
E100-00-00_N034	54053.0	2PCT_50yr	23155.00	40.70	68.43		69.00	0.000349	6.41	6495.92	1451.80	0.27
E100-00-00_N034	54053.0	1PCT_100yr	26187.00	40.70	69.01		69.63	0.000379	6.81	7349.07	1506.97	0.28
E100-00-00_N034	53766.	10PCT_10yr	17368.00	40.78	65.90		66.47	0.000516	6.07	3042.63	401.98	0.29
E100-00-00_N034	53766.	2PCT_50yr	23155.00	40.78	68.27		68.87	0.000483	6.48	5780.65	1695.10	0.28
E100-00-00_N034	53766.	1PCT_100yr	26187.00	40.78	68.84		69.50	0.000516	6.85	6809.72	1825.16	0.29
E100-00-00_N034	53664.0	10PCT_10yr	17368.00	40.81	65.85	55.12	66.42	0.000457	6.08	3107.35	572.90	0.28
E100-00-00_N034	53664.0	2PCT_50yr	23155.00	40.81	68.22	57.01	68.82	0.000441	6.48	6297.00	1752.21	0.28
E100-00-00_N034	53664.0	1PCT_100yr	26187.00	40.81	68.80	57.91	69.45	0.000473	6.87	7311.37	1784.88	0.29
E100-00-00_N034	53653.5		Bridge									
E100-00-00_N034	53642.0	10PCT_10yr	17368.00	40.81	65.76	55.12	66.33	0.000467	6.12	3055.11	541.11	0.28
E100-00-00_N034	53642.0	2PCT_50yr	23155.00	40.81	68.14	57.01	68.76	0.000452	6.54	6153.80	1747.55	0.28
E100-00-00_N034	53642.0	1PCT_100yr	26187.00	40.81	68.66	57.87	69.34	0.000493	6.97	7068.77	1777.12	0.30
E100-00-00_N034	53459.0	10PCT_10yr	17368.00	41.48	65.62	55.45	66.23	0.000540	6.30	2889.60	467.71	0.29
E100-00-00_N034	53459.0	2PCT_50yr	23155.00	41.48	68.02	57.23	68.66	0.000532	6.67	6221.58	2063.65	0.29
E100-00-00_N034	53459.0	1PCT_100yr	26187.00	41.48	68.54	58.09	69.23	0.000579	7.06	7299.99	2143.02	0.30
E100-00-00_N034	53371.0		Bridge									
E100-00-00_N034	53282.0	10PCT_10yr	17368.00	41.06	65.55	55.02	66.14	0.000508	6.15	2942.97	433.67	0.28
E100-00-00_N034	53282.0	2PCT_50yr	23155.00	41.06	67.78	56.80	68.44	0.000533	6.70	5826.74	2005.86	0.29
E100-00-00_N034	53282.0	1PCT_100yr	26187.00	41.06	68.53	57.66	69.20	0.000542	6.92	7363.16	2140.41	0.30
E100-00-00_N034	53116.	10PCT_10yr	17368.00	40.32	65.49		66.02	0.000455	5.88	3549.21	965.12	0.27
E100-00-00_N034	53116.	2PCT_50yr	23155.00	40.32	67.78		68.29	0.000398	6.06	7290.67	2062.07	0.26
E100-00-00_N034	53116.	1PCT_100yr	26187.00	40.32	68.54		69.04	0.000394	6.21	8932.98	2279.15	0.26
E100-00-00_N034	52833.	10PCT_10yr	17368.00	39.06	65.43		65.88	0.000363	5.49	3652.35	709.30	0.25
E100-00-00_N034	52833.	2PCT_50yr	23155.00	39.06	67.72		68.16	0.000323	5.68	7588.26	2312.85	0.24
E100-00-00_N034	52833.	1PCT_100yr	26187.00	39.06	68.48		68.91	0.000318	5.79	9410.03	2480.63	0.24
E100-00-00_N034	52760.0	10PCT_10yr	17368.00	38.73	65.21	55.58	65.81	0.000523	6.26	3149.55	791.10	0.30
E100-00-00_N034	52760.0	2PCT_50yr	23155.00	38.73	67.57	57.37	68.10	0.000438	6.28	7038.54	2294.89	0.28
E100-00-00_N034	52760.0	1PCT_100yr	26187.00	38.73	68.35	58.23	68.86	0.000416	6.32	8893.04	2429.28	0.27
E100-00-00_N034	52742.0		Bridge									
E100-00-00_N034	52722.0	10PCT_10yr	17368.00	38.68	65.13	55.46	65.73	0.000527	6.28	3122.62	771.77	0.30
E100-00-00_N034	52722.0	2PCT_50yr	23155.00	38.68	67.35	57.26	67.91	0.000467	6.45	6645.37	2265.66	0.28
E100-00-00_N034	52722.0	1PCT_100yr	26187.00	38.68	68.12	58.16	68.66	0.000447	6.50	8437.88	2397.02	0.28
E100-00-00_N034	52589.0	10PCT_10yr	17368.00	38.93	65.13		65.61	0.000383	5.67	3523.53	614.28	0.26
E100-00-00_N034	52589.0	2PCT_50yr	23155.00	38.93	67.34		67.81	0.000352	5.90	7337.03	2269.49	0.25
E100-00-00_N034	52589.0	1PCT_100yr	26187.00	38.93	68.11		68.56	0.000343	6.00	9151.60	2447.55	0.25
E100-00-00_N034	51777.0	10PCT_10yr	17368.00	38.57	64.90		65.31	0.000309	5.36	4520.21	1052.77	0.24
E100-00-00_N034	51777.0	2PCT_50yr	23155.00	38.57	67.17		67.54	0.000264	5.41	8394.31	2520.67	0.22
E100-00-00_N034	51777.0	1PCT_100yr	26187.00	38.57	67.95		68.30	0.000256	5.47	10418.14	2683.96	0.22
E100-00-00_N034	51021.	10PCT_10yr	17368.00	37.55	64.69		65.07	0.000365	5.14	4505.07	886.14	0.24
E100-00-00_N034	51021.	2PCT_50yr	23155.00	37.55	67.00		67.33	0.000297	5.12	8525.97	2473.46	0.22
E100-00-00_N034	51021.	1PCT_100yr	26187.00	37.55	67.79		68.10	0.000283	5.15	10579.91	2681.33	0.22
E100-00-00_N034	50921.0	10PCT_10yr	17368.00	37.41	64.47	52.43	64.99	0.000388	5.76	3014.60	568.73	0.26
E100-00-00_N034	50921.0	2PCT_50yr	23155.00	37.41	66.78	54.53	67.25	0.000353	5.84	7142.14	2365.37	0.25
E100-00-00_N034	50921.0	1PCT_100yr	26187.00	37.41	67.59	55.48	68.03	0.000338	5.89	9165.82	2763.60	0.25
E100-00-00_N034	50865.0		Bridge									
E100-00-00_N034	50808.0	10PCT_10yr	17368.00	37.52	64.30	52.55	64.83	0.000407	5.87	2959.35	508.89	0.27
E100-00-00_N034	50808.0	2PCT_50yr	23155.00	37.52	66.67	54.62	67.17	0.000379	6.00	6617.48	2330.47	0.26
E100-00-00_N034	50808.0	1PCT_100yr	26187.00	37.52	67.54	55.58	67.99	0.000349	5.96	9007.54	2720.84	0.25
E100-00-00_N034	50694.	10PCT_10yr	17368.00	37.44	64.44		64.62	0.000208	3.91	6816.01	1087.93	0.18
E100-00-00_N034	50694.	2PCT_50yr	23155.00	37.44	66.80		66.97	0.000178	4.00	11152.66	2579.11	0.17
E100-00-00_N034	50694.	1PCT_100yr	26187.00	37.44	67.66		67.81	0.000170	4.04	13491.96	2924.07	0.17
E100-00-00_N034	49824.0	10PCT_10yr	17368.00	36.84	63.95		64.40	0.000306	5.44	3703.32	958.01	0.24
E100-00-00_N034	49824.0	2PCT_50yr	23155.00	36.84	66.33		66.77	0.000280	5.69	8615.49	3372.19	0.23
E100-00-00_N034	49824.0	1PCT_100yr	26187.00	36.84	67.24		67.64	0.000259	5.64	11863.94	3702.92	0.22
E100-00-00_N034	49564.	10PCT_10yr	17368.00	36.36	63.88		64.31	0.000342	5.27	3833.28	1111.75	0.24
E100-00-00_N034	49564.	2PCT_50yr	23155.00	36.36	66.28		66.69	0.000307	5.49	8488.59	3081.43	0.23
E100-00-00_N034	49564.	1PCT_100yr	26187.00	36.36	67.18		67.57	0.000288	5.49	11460.72	3478.63	0.22

E100-00-00 Revised Existing
HEC-RAS Output

HEC-RAS Plan: Rev Ext River: E100-00-00 Reach: E100-00-00_N034 (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
E100-00-00_N034	49457.0	10PCT_10yr	17368.00	36.16	63.87	50.80	64.24	0.000398	4.88	3924.84	1012.61	0.24
E100-00-00_N034	49457.0	2PCT_50yr	23155.00	36.16	66.29	52.70	66.63	0.000324	4.94	8870.16	3105.22	0.22
E100-00-00_N034	49457.0	1PCT_100yr	26187.00	36.16	67.19	53.57	67.50	0.000296	4.90	11980.70	3574.83	0.21
E100-00-00_N034	49446.0		Bridge									
E100-00-00_N034	49437.0	10PCT_10yr	17368.00	36.17	63.75	50.79	64.12	0.000413	4.94	3798.35	902.49	0.24
E100-00-00_N034	49437.0	2PCT_50yr	23155.00	36.17	66.21	52.70	66.56	0.000335	5.00	8585.55	3037.18	0.23
E100-00-00_N034	49437.0	1PCT_100yr	26187.00	36.17	67.06	53.57	67.39	0.000312	5.00	11489.46	3540.84	0.22
E100-00-00_N034	49281.	10PCT_10yr	17368.00	36.61	63.62		64.05	0.000285	5.34	3886.46	1760.22	0.22
E100-00-00_N034	49281.	2PCT_50yr	23155.00	36.61	66.11		66.50	0.000246	5.42	9999.29	3017.41	0.21
E100-00-00_N034	49281.	1PCT_100yr	26187.00	36.61	66.96		67.33	0.000238	5.48	12735.90	3425.20	0.21
E100-00-00_N034	48942.0	10PCT_10yr	17368.00	37.57	63.54		63.95	0.000275	5.23	4049.02	912.87	0.22
E100-00-00_N034	48942.0	2PCT_50yr	23155.00	37.57	66.00		66.41	0.000252	5.48	9064.47	2827.27	0.22
E100-00-00_N034	48942.0	1PCT_100yr	26187.00	37.57	66.85		67.25	0.000246	5.57	11615.52	3141.81	0.22
E100-00-00_N034	47857.0	10PCT_10yr	17368.00	34.44	63.30		63.66	0.000239	4.96	4987.93	1892.83	0.21
E100-00-00_N034	47857.0	2PCT_50yr	23155.00	34.44	65.88		66.14	0.000176	4.66	13003.87	3788.10	0.18
E100-00-00_N034	47857.0	1PCT_100yr	26187.00	34.44	66.76		66.99	0.000162	4.61	16480.12	4084.55	0.18
E100-00-00_N034	46827.0	10PCT_10yr	17368.00	33.93	62.98		63.39	0.000291	5.16	4628.01	1662.97	0.23
E100-00-00_N034	46827.0	2PCT_50yr	23155.00	33.93	65.62		65.94	0.000229	4.99	10208.63	2578.27	0.20
E100-00-00_N034	46827.0	1PCT_100yr	26187.00	33.93	66.50		66.81	0.000218	5.02	12544.64	2709.74	0.20
E100-00-00_N034	46096.0	10PCT_10yr	22857.00	33.45	62.37		63.08	0.000487	6.84	4657.15	1059.96	0.30
E100-00-00_N034	46096.0	2PCT_50yr	32252.00	33.45	64.87		65.64	0.000490	7.54	8847.68	2149.35	0.30
E100-00-00_N034	46096.0	1PCT_100yr	35425.00	33.45	65.82		66.53	0.000448	7.45	11078.21	2606.76	0.29
E100-00-00_N034	45120.	10PCT_10yr	22857.00	32.65	61.93	49.84	62.57	0.000512	6.54	4526.04	1361.60	0.28
E100-00-00_N034	45120.	2PCT_50yr	32252.00	32.65	64.22	52.69	65.10	0.000615	7.81	5944.24	2521.60	0.32
E100-00-00_N034	45120.	1PCT_100yr	35425.00	32.65	65.09	53.59	66.00	0.000616	8.06	6505.74	2679.90	0.32
E100-00-00_N034	44983.0	10PCT_10yr	22857.00	32.54	61.81	49.55	62.48	0.000487	6.60	3600.92	1300.20	0.28
E100-00-00_N034	44983.0	2PCT_50yr	32252.00	32.54	63.92	52.12	64.96	0.000647	8.23	4113.89	2459.94	0.33
E100-00-00_N034	44983.0	1PCT_100yr	35425.00	32.54	64.68	53.15	65.84	0.000682	8.68	4299.28	2671.48	0.35
E100-00-00_N034	44963.5		Bridge									
E100-00-00_N034	44945.0	10PCT_10yr	22857.00	32.27	61.47	49.28	62.15	0.000498	6.64	3568.97	1104.63	0.29
E100-00-00_N034	44945.0	2PCT_50yr	32252.00	32.27	63.60	51.85	64.65	0.000657	8.27	4087.49	2362.33	0.34
E100-00-00_N034	44945.0	1PCT_100yr	35425.00	32.27	64.21	52.85	65.39	0.000711	8.79	4235.27	2575.41	0.35
E100-00-00_N034	44711.0	10PCT_10yr	22857.00	31.73	61.27	48.73	62.01	0.000445	6.91	3308.61	1524.96	0.29
E100-00-00_N034	44711.0	2PCT_50yr	32252.00	31.73	63.44	51.46	64.50	0.000604	8.40	4930.62	2280.68	0.34
E100-00-00_N034	44711.0	1PCT_100yr	35425.00	31.73	64.06	52.34	65.22	0.000642	8.83	5432.00	2467.23	0.35
E100-00-00_N034	44700.0		Bridge									
E100-00-00_N034	44688.0	10PCT_10yr	22857.00	31.70	61.12	48.70	61.87	0.000453	6.95	3286.67	1436.82	0.29
E100-00-00_N034	44688.0	2PCT_50yr	32252.00	31.70	63.27	51.43	64.36	0.000620	8.48	4829.24	2247.73	0.34
E100-00-00_N034	44688.0	1PCT_100yr	35425.00	31.70	63.90	52.25	65.09	0.000659	8.91	5327.50	2435.26	0.35
E100-00-00_N034	44556.	10PCT_10yr	22857.00	31.56	61.06	48.59	61.81	0.000562	6.94	3371.21	1457.58	0.30
E100-00-00_N034	44556.	2PCT_50yr	32252.00	31.56	63.20	51.55	64.26	0.000739	8.40	4952.51	2154.83	0.34
E100-00-00_N034	44556.	1PCT_100yr	35425.00	31.56	63.83	52.40	64.98	0.000777	8.81	5451.84	2312.23	0.35
E100-00-00_N034	44372.0	10PCT_10yr	22857.00	31.36	61.00	48.63	61.70	0.000456	6.76	3776.16	1636.10	0.29
E100-00-00_N034	44372.0	2PCT_50yr	32252.00	31.36	63.15	51.41	64.10	0.000601	8.05	5761.23	2366.94	0.33
E100-00-00_N034	44372.0	1PCT_100yr	35425.00	31.36	63.78	52.25	64.80	0.000638	8.39	6435.30	2563.58	0.34
E100-00-00_N034	43626.	10PCT_10yr	22857.00	30.94	60.52	48.62	61.29	0.000642	7.11	3946.50	1929.87	0.31
E100-00-00_N034	43626.	2PCT_50yr	32252.00	30.94	62.74	51.51	63.61	0.000678	7.91	8280.49	3513.95	0.33
E100-00-00_N034	43626.	1PCT_100yr	35425.00	30.94	63.42	52.46	64.27	0.000667	8.04	9893.52	4644.50	0.33
E100-00-00_N034	43420.0	10PCT_10yr	22857.00	30.82	60.46	48.90	61.13	0.000449	6.57	3477.63	1586.75	0.28
E100-00-00_N034	43420.0	2PCT_50yr	32252.00	30.82	62.69	51.21	63.41	0.000486	7.26	8449.42	3798.19	0.29
E100-00-00_N034	43420.0	1PCT_100yr	35425.00	30.82	63.37	51.96	64.08	0.000475	7.35	10126.60	4341.29	0.29
E100-00-00_N034	43348.0		Bridge									
E100-00-00_N034	43276.0	10PCT_10yr	22857.00	30.57	59.84	48.65	60.54	0.000483	6.72	3401.08	800.59	0.29
E100-00-00_N034	43276.0	2PCT_50yr	32252.00	30.57	62.65	50.96	63.37	0.000475	7.22	8406.18	3752.50	0.29
E100-00-00_N034	43276.0	1PCT_100yr	35425.00	30.57	63.34	51.68	64.05	0.000465	7.31	10091.52	4305.56	0.29
E100-00-00_N034	42932.	10PCT_10yr	22857.00	30.49	59.75	47.35	60.31	0.000414	6.23	5696.91	1778.27	0.26
E100-00-00_N034	42932.	2PCT_50yr	32252.00	30.49	62.64	50.14	63.11	0.000345	6.29	12787.13	4525.80	0.24
E100-00-00_N034	42932.	1PCT_100yr	35425.00	30.49	63.35	50.96	63.78	0.000326	6.24	15212.60	4682.00	0.24
E100-00-00_N034	42650.0	10PCT_10yr	22857.00	30.43	59.35	47.69	60.12	0.000496	7.07	3243.79	1076.39	0.31
E100-00-00_N034	42650.0	2PCT_50yr	32252.00	30.43	62.47	50.48	63.00	0.000356	6.56	11304.79	4570.90	0.26
E100-00-00_N034	42650.0	1PCT_100yr	35425.00	30.43	63.23	51.30	63.69	0.000322	6.40	14468.79	4708.58	0.25

E100-00-00 Revised Existing
HEC-RAS Output

HEC-RAS Plan: Rev Ext River: E100-00-00 Reach: E100-00-00_N034 (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
E100-00-00_N034	42603.0		Bridge									
E100-00-00_N034	42555.0	10PCT_10yr	22857.00	30.34	59.16	47.59	59.86	0.000469	6.86	4205.09	964.50	0.30
E100-00-00_N034	42555.0	2PCT_50yr	32252.00	30.34	62.21	50.38	62.79	0.000387	6.79	10515.78	4300.19	0.27
E100-00-00_N034	42555.0	1PCT_100yr	35425.00	30.34	62.85	51.20	63.39	0.000367	6.77	13084.30	4653.75	0.27
E100-00-00_N034	42356.	10PCT_10yr	22857.00	30.03	59.10	46.33	59.72	0.000516	6.35	4095.71	899.96	0.28
E100-00-00_N034	42356.	2PCT_50yr	32252.00	30.03	62.16	49.13	62.68	0.000420	6.39	11188.99	4121.87	0.26
E100-00-00_N034	42356.	1PCT_100yr	35425.00	30.03	62.81	49.97	63.28	0.000390	6.29	14457.97	4354.19	0.25
E100-00-00_N034	41337.0	10PCT_10yr	22857.00	28.45	58.72	45.70	59.30	0.000320	6.31	5443.04	1767.66	0.26
E100-00-00_N034	41337.0	2PCT_50yr	32252.00	28.45	61.90	48.52	62.34	0.000246	6.13	13951.98	3895.01	0.23
E100-00-00_N034	41337.0	1PCT_100yr	35425.00	28.45	62.61	49.37	62.97	0.000212	5.82	18709.69	4158.59	0.21
E100-00-00_N034	40384.0	10PCT_10yr	22857.00	27.79	58.49		58.87	0.000483	5.20	7184.04	2039.43	0.26
E100-00-00_N034	40384.0	2PCT_50yr	32252.00	27.79	61.78		62.03	0.000293	4.71	15688.39	3100.03	0.21
E100-00-00_N034	40384.0	1PCT_100yr	35425.00	27.79	62.46		62.70	0.000281	4.74	17859.03	3241.61	0.20
E100-00-00_N034	39567.	10PCT_10yr	22857.00	27.06	57.91		58.46	0.000448	6.09	5380.38	1494.92	0.27
E100-00-00_N034	39567.	2PCT_50yr	32252.00	27.06	61.34		61.75	0.000316	5.80	12882.47	2620.95	0.23
E100-00-00_N034	39567.	1PCT_100yr	35425.00	27.06	62.04		62.43	0.000306	5.84	14750.18	2746.65	0.23
E100-00-00_N034	39419.0	10PCT_10yr	22857.00	26.87	57.78	44.59	58.38	0.000355	6.27	3898.93	1773.28	0.26
E100-00-00_N034	39419.0	2PCT_50yr	32252.00	26.87	60.86	47.02	61.59	0.000498	7.04	5802.90	3137.06	0.29
E100-00-00_N034	39419.0	1PCT_100yr	35425.00	26.87	62.00	47.79	62.38	0.000298	5.67	15951.55	4401.02	0.22
E100-00-00_N034	39382.5		Bridge									
E100-00-00_N034	39346	10PCT_10yr	22857.00	26.81	57.17	44.59	57.82	0.000370	6.47	3660.08	1543.64	0.27
E100-00-00_N034	39346	2PCT_50yr	32252.00	26.81	60.27	47.09	61.09	0.000550	7.35	5179.48	3464.17	0.30
E100-00-00_N034	39346	1PCT_100yr	35425.00	26.81	61.77	47.79	62.14	0.000289	5.62	16903.51	4868.45	0.22
E100-00-00_N034	39310	10PCT_10yr	22857.00	26.77	57.17	44.11	57.80	0.000395	6.35	3735.05	325.09	0.27
E100-00-00_N034	39310	2PCT_50yr	32252.00	26.77	60.26	46.52	61.06	0.000492	7.34	5020.72	2016.72	0.29
E100-00-00_N034	39310	1PCT_100yr	35425.00	26.77	61.13	47.32	61.98	0.000514	7.57	5587.58	2254.51	0.30
E100-00-00_N034	39223		Bridge									
E100-00-00_N034	39136	10PCT_10yr	22857.00	26.67	56.91	44.01	57.55	0.000401	6.42	3667.52	329.90	0.27
E100-00-00_N034	39136	2PCT_50yr	32252.00	26.67	59.94	46.41	60.77	0.000500	7.44	4842.10	2716.41	0.30
E100-00-00_N034	39136	1PCT_100yr	35425.00	26.67	60.86	47.22	61.74	0.000525	7.68	5377.47	2972.56	0.30
E100-00-00_N034	39084	10PCT_10yr	22857.00	26.67	56.89	44.13	57.53	0.000383	6.41	3677.06	1013.60	0.26
E100-00-00_N034	39084	2PCT_50yr	32252.00	26.67	59.90	46.62	60.73	0.000533	7.46	5050.20	3343.19	0.30
E100-00-00_N034	39084	1PCT_100yr	35425.00	26.67	60.81	47.34	61.69	0.000557	7.72	5727.48	4305.52	0.31
E100-00-00_N034	39050.5		Bridge									
E100-00-00_N034	39017.0	10PCT_10yr	22857.00	26.67	56.04	44.13	56.74	0.000441	6.74	3403.75	452.80	0.28
E100-00-00_N034	39017.0	2PCT_50yr	32252.00	26.67	59.03	46.63	59.97	0.000536	7.88	4708.80	1969.06	0.31
E100-00-00_N034	39017.0	1PCT_100yr	35425.00	26.67	60.05	47.35	60.97	0.000598	7.90	5427.65	3471.11	0.32
E100-00-00_N034	38877.	10PCT_10yr	22857.00	26.33	55.94		56.67	0.000528	6.87	3525.46	608.06	0.30
E100-00-00_N034	38877.	2PCT_50yr	32252.00	26.33	59.09		59.76	0.000518	7.05	8823.60	2281.32	0.29
E100-00-00_N034	38877.	1PCT_100yr	35425.00	26.33	60.16		60.73	0.000455	6.75	11624.82	3286.36	0.27
E100-00-00_N034	37857.0	10PCT_10yr	22857.00	25.40	55.48		56.17	0.000441	6.67	3887.74	847.01	0.28
E100-00-00_N034	37857.0	2PCT_50yr	32252.00	25.40	58.51		59.25	0.000459	7.26	8240.52	2085.73	0.29
E100-00-00_N034	37857.0	1PCT_100yr	35425.00	25.40	59.61		60.27	0.000417	7.08	10740.45	2501.75	0.28
E100-00-00_N034	36870.0	10PCT_10yr	22857.00	24.57	55.06		55.73	0.000433	6.57	3498.29	301.61	0.28
E100-00-00_N034	36870.0	2PCT_50yr	32252.00	24.57	57.78		58.68	0.000672	7.72	5391.01	1870.70	0.33
E100-00-00_N034	36870.0	1PCT_100yr	35425.00	24.57	58.93		59.75	0.000612	7.56	7660.39	2035.93	0.32
E100-00-00_N034	36505.	10PCT_10yr	22857.00	24.44	54.94		55.55	0.000474	6.29	4322.54	1501.11	0.27
E100-00-00_N034	36505.	2PCT_50yr	32252.00	24.44	57.81		58.39	0.000464	6.54	9983.82	2559.68	0.27
E100-00-00_N034	36505.	1PCT_100yr	35425.00	24.44	59.01		59.48	0.000379	6.16	13760.67	3595.92	0.24
E100-00-00_N034	36318.0	10PCT_10yr	22857.00	24.37	54.89	41.07	55.45	0.000368	6.06	4219.66	1026.39	0.25
E100-00-00_N034	36318.0	2PCT_50yr	32252.00	24.37	57.67	43.86	58.29	0.000497	6.66	8450.56	2043.12	0.28
E100-00-00_N034	36318.0	1PCT_100yr	35425.00	24.37	58.86	44.67	59.40	0.000429	6.38	11260.19	2829.69	0.26
E100-00-00_N034	36307.0		Bridge									
E100-00-00_N034	36296.0	10PCT_10yr	22857.00	24.36	54.87		55.44	0.000370	6.07	4095.10	1022.90	0.26
E100-00-00_N034	36296.0	2PCT_50yr	32252.00	24.36	57.62		58.26	0.000507	6.71	8261.69	1988.26	0.28
E100-00-00_N034	36296.0	1PCT_100yr	35425.00	24.36	58.80		59.35	0.000438	6.45	11015.02	2741.22	0.27
E100-00-00_N034	36134.	10PCT_10yr	22857.00	24.19	54.77		55.36	0.000457	6.19	3897.10	793.04	0.26
E100-00-00_N034	36134.	2PCT_50yr	32252.00	24.19	57.38		58.13	0.000562	7.15	6561.64	1589.46	0.29
E100-00-00_N034	36134.	1PCT_100yr	35425.00	24.19	58.50		59.22	0.000519	7.13	9270.05	2835.96	0.28
E100-00-00_N034	35718.0	10PCT_10yr	23658.00	23.76	54.48	41.18	55.17	0.000440	6.65	3614.84	334.18	0.28
E100-00-00_N034	35718.0	2PCT_50yr	32697.00	23.76	56.92	43.85	57.88	0.000589	7.90	4615.17	968.22	0.32
E100-00-00_N034	35718.0	1PCT_100yr	35938.00	23.76	58.04	44.71	58.97	0.000565	7.91	6826.08	2466.86	0.32

E100-00-00 Revised Existing
HEC-RAS Output

HEC-RAS Plan: Rev Ext River: E100-00-00 Reach: E100-00-00_N034 (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
E100-00-00_N034	35158.	10PCT_10yr	23658.00	22.89	54.32	40.15	54.88	0.000455	6.07	4319.62	780.55	0.26
E100-00-00_N034	35158.	2PCT_50yr	32697.00	22.89	56.81	42.79	57.48	0.000525	6.79	7289.08	1754.69	0.28
E100-00-00_N034	35158.	1PCT_100yr	35938.00	22.89	57.97	43.63	58.59	0.000471	6.70	10221.46	3157.32	0.27
E100-00-00_N034	35006.0	10PCT_10yr	23658.00	22.66	54.18	40.69	54.80	0.000398	6.35	4285.53	876.65	0.27
E100-00-00_N034	35006.0	2PCT_50yr	32697.00	22.66	56.65	43.32	57.38	0.000453	7.14	7431.62	1905.20	0.29
E100-00-00_N034	35006.0	1PCT_100yr	35938.00	22.66	57.86	44.17	58.51	0.000392	6.92	10526.39	3187.58	0.27
E100-00-00_N034	34951.5		Bridge									
E100-00-00_N034	34895.0	10PCT_10yr	23658.00	22.56	53.81	40.57	54.46	0.000416	6.47	4069.61	723.47	0.27
E100-00-00_N034	34895.0	2PCT_50yr	32697.00	22.56	56.62	43.21	57.33	0.000445	7.10	7549.65	1951.12	0.28
E100-00-00_N034	34895.0	1PCT_100yr	35938.00	22.56	57.83	44.05	58.48	0.000394	6.95	10753.76	3224.97	0.27
E100-00-00_N034	34645.	10PCT_10yr	23658.00	22.24	53.75		54.31	0.000416	6.10	4720.16	934.34	0.25
E100-00-00_N034	34645.	2PCT_50yr	32697.00	22.24	56.57		57.18	0.000405	6.64	8062.06	1873.54	0.26
E100-00-00_N034	34645.	1PCT_100yr	35938.00	22.24	57.78		58.34	0.000364	6.54	11009.34	3183.44	0.25
E100-00-00_N034	34206.0	10PCT_10yr	23658.00	21.68	53.54		54.13	0.000397	6.19	4100.28	551.55	0.26
E100-00-00_N034	34206.0	2PCT_50yr	32697.00	21.68	56.34		56.99	0.000409	6.75	8952.63	3012.08	0.27
E100-00-00_N034	34206.0	1PCT_100yr	35938.00	21.68	57.64		58.16	0.000330	6.32	13163.16	3504.60	0.24
E100-00-00_N034	33770.	10PCT_10yr	23658.00	21.56	53.65		53.91	0.000187	4.35	6853.66	1458.14	0.17
E100-00-00_N034	33770.	2PCT_50yr	32697.00	21.56	56.48		56.74	0.000189	4.60	13983.20	3010.49	0.17
E100-00-00_N034	33770.	1PCT_100yr	35938.00	21.56	57.73		57.95	0.000162	4.43	17978.94	3321.90	0.16
E100-00-00_N034	33681.0	10PCT_10yr	23658.00	21.53	53.12	39.70	53.77	0.000400	6.49	3657.97	669.17	0.27
E100-00-00_N034	33681.0	2PCT_50yr	32697.00	21.53	56.18	42.33	56.65	0.000306	6.14	11646.17	2974.28	0.24
E100-00-00_N034	33681.0	1PCT_100yr	35938.00	21.53	57.53	43.18	57.89	0.000241	5.69	15850.40	3280.77	0.21
E100-00-00_N034	33645.5		Bridge									
E100-00-00_N034	33610.0	10PCT_10yr	23658.00	21.61	51.87	39.78	52.64	0.000500	7.00	3384.37	369.97	0.30
E100-00-00_N034	33610.0	2PCT_50yr	32697.00	21.61	56.11	42.40	56.61	0.000319	6.25	11217.92	2933.11	0.24
E100-00-00_N034	33610.0	1PCT_100yr	35938.00	21.61	57.07	43.23	57.51	0.000286	6.09	14132.72	3149.21	0.23
E100-00-00_N034	33357.	10PCT_10yr	23658.00	21.41	51.78		52.45	0.000615	6.60	3587.60	246.86	0.29
E100-00-00_N034	33357.	2PCT_50yr	32697.00	21.41	55.82		56.46	0.000574	6.66	8179.02	2642.60	0.28
E100-00-00_N034	33357.	1PCT_100yr	35938.00	21.41	56.81		57.38	0.000518	6.49	11055.64	3007.57	0.27
E100-00-00_N034	32570.0	10PCT_10yr	23658.00	20.78	51.43		52.05	0.000415	6.33	3735.07	216.97	0.27
E100-00-00_N034	32570.0	2PCT_50yr	32697.00	20.78	55.52		56.06	0.000352	6.25	10534.46	3042.54	0.25
E100-00-00_N034	32570.0	1PCT_100yr	35938.00	20.78	56.53		57.00	0.000309	6.05	13817.97	3430.13	0.23
E100-00-00_N034	31583.0	10PCT_10yr	23658.00	19.35	51.09		51.65	0.000354	6.03	3962.49	261.34	0.25
E100-00-00_N034	31583.0	2PCT_50yr	32697.00	19.35	55.35		55.74	0.000239	5.53	14614.72	4530.17	0.21
E100-00-00_N034	31583.0	1PCT_100yr	35938.00	19.35	56.42		56.73	0.000197	5.19	19999.36	5511.22	0.19
E100-00-00_N034	30779.0	10PCT_10yr	23658.00	18.79	50.87		51.37	0.000308	5.74	4787.44	708.61	0.24
E100-00-00_N034	30779.0	2PCT_50yr	32697.00	18.79	55.19		55.56	0.000210	5.40	14553.52	3297.75	0.20
E100-00-00_N034	30779.0	1PCT_100yr	35938.00	18.79	56.24		56.57	0.000188	5.27	18163.82	3504.73	0.19
E100-00-00_N034	29659.	10PCT_10yr	23658.00	17.66	50.55		50.98	0.000351	5.27	5066.53	892.09	0.22
E100-00-00_N034	29659.	2PCT_50yr	32697.00	17.66	55.06		55.29	0.000197	4.38	18418.18	4546.24	0.17
E100-00-00_N034	29659.	1PCT_100yr	35938.00	17.66	56.15		56.34	0.000164	4.14	23629.49	5141.57	0.16
E100-00-00_N034	29368.0	10PCT_10yr	23658.00	17.37	50.08	35.89	50.78	0.000419	6.74	3508.20	372.05	0.27
E100-00-00_N034	29368.0	2PCT_50yr	32697.00	17.37	54.55	38.82	55.10	0.000325	6.41	11157.66	2799.54	0.24
E100-00-00_N034	29368.0	1PCT_100yr	35938.00	17.37	55.69	39.63	56.16	0.000282	6.16	14527.68	3117.25	0.22
E100-00-00_N034	29297.5		Bridge									
E100-00-00_N034	29203.0	10PCT_10yr	23658.00	17.35	49.27	35.87	50.03	0.000496	7.01	3375.38	233.70	0.29
E100-00-00_N034	29203.0	2PCT_50yr	32697.00	17.35	54.07	38.73	54.69	0.000368	6.72	9891.29	2597.47	0.25
E100-00-00_N034	29203.0	1PCT_100yr	35938.00	17.35	55.17	39.52	55.71	0.000327	6.54	12989.20	2961.25	0.24
E100-00-00_N034	28775.	10PCT_10yr	23658.00	16.90	49.22		49.68	0.000452	5.42	4399.62	470.69	0.24
E100-00-00_N034	28775.	2PCT_50yr	32697.00	16.90	54.12		54.39	0.000246	4.58	15415.84	3926.55	0.19
E100-00-00_N034	28775.	1PCT_100yr	35938.00	16.90	55.22		55.45	0.000209	4.38	19965.46	4370.84	0.17
E100-00-00_N034	28375.0	10PCT_10yr	23658.00	16.48	48.78	35.03	49.44	0.000429	6.51	3633.81	207.12	0.27
E100-00-00_N034	28375.0	2PCT_50yr	32697.00	16.48	53.77	37.74	54.23	0.000297	5.88	12972.57	3523.83	0.23
E100-00-00_N034	28375.0	1PCT_100yr	35938.00	16.48	54.94	38.65	55.32	0.000249	5.58	17304.81	3886.27	0.21
E100-00-00_N034	28357.0		Bridge									
E100-00-00_N034	28330.0	10PCT_10yr	23658.00	16.41	48.74		49.40	0.000427	6.50	3639.52	207.28	0.27
E100-00-00_N034	28330.0	2PCT_50yr	32697.00	16.41	53.75		54.20	0.000293	5.85	13127.83	3537.91	0.23
E100-00-00_N034	28330.0	1PCT_100yr	35938.00	16.41	54.87		55.25	0.000249	5.59	17287.87	3885.87	0.21
E100-00-00_N034	28190.0	10PCT_10yr	24108.00	16.18	48.66	34.68	49.33	0.000395	6.57	3670.40	193.27	0.27
E100-00-00_N034	28190.0	2PCT_50yr	33156.00	16.18	53.57	37.48	54.13	0.000285	6.37	11066.21	2862.54	0.23
E100-00-00_N034	28190.0	1PCT_100yr	36459.00	16.18	54.67	38.37	55.17	0.000259	6.25	14692.20	3621.64	0.22

E100-00-00 Revised Existing
HEC-RAS Output

HEC-RAS Plan: Rev Ext River: E100-00-00 Reach: E100-00-00_N034 (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
E100-00-00_N034	28152.5		Bridge									
E100-00-00_N034	28113.0	10PCT_10yr	24108.00	16.28	47.65	34.78	48.40	0.000472	6.98	3455.68	193.11	0.29
E100-00-00_N034	28113.0	2PCT_50yr	33156.00	16.28	53.28	37.55	53.90	0.000315	6.62	9993.23	2720.79	0.24
E100-00-00_N034	28113.0	1PCT_100yr	36459.00	16.28	54.32	38.45	54.89	0.000292	6.56	13110.35	3347.06	0.23
E100-00-00_N034	27982.	10PCT_10yr	24108.00	16.25	47.51		48.32	0.000586	7.21	3345.73	201.67	0.31
E100-00-00_N034	27982.	2PCT_50yr	33156.00	16.25	53.27		53.83	0.000377	6.38	10357.57	2718.75	0.25
E100-00-00_N034	27982.	1PCT_100yr	36459.00	16.25	54.31		54.82	0.000339	6.25	13440.98	3123.39	0.24
E100-00-00_N034	27429.0	10PCT_10yr	24108.00	16.12	47.27		48.00	0.000497	6.85	3516.85	206.59	0.29
E100-00-00_N034	27429.0	2PCT_50yr	33156.00	16.12	53.09		53.62	0.000372	6.18	9965.05	2559.63	0.25
E100-00-00_N034	27429.0	1PCT_100yr	36459.00	16.12	54.16		54.64	0.000328	6.02	12796.80	2719.84	0.23
E100-00-00_N034	26598.	10PCT_10yr	24108.00	15.35	46.92	33.85	47.58	0.000466	6.52	3695.29	218.14	0.28
E100-00-00_N034	26598.	2PCT_50yr	33156.00	15.35	52.82	36.33	53.29	0.000305	5.80	8174.30	4073.14	0.23
E100-00-00_N034	26598.	1PCT_100yr	36459.00	15.35	53.88	37.16	54.33	0.000285	5.80	9501.80	4401.67	0.22
E100-00-00_N034	26498.0	10PCT_10yr	24108.00	15.26	46.88	33.77	47.51	0.000444	6.41	3762.32	219.45	0.27
E100-00-00_N034	26498.0	2PCT_50yr	33156.00	15.26	52.74	36.23	53.25	0.000303	5.95	7468.04	3896.09	0.23
E100-00-00_N034	26498.0	1PCT_100yr	36459.00	15.26	53.78	37.04	54.29	0.000293	6.04	8745.69	4448.01	0.23
E100-00-00_N034	26432.5		Bridge									
E100-00-00_N034	26366.0	10PCT_10yr	24108.00	15.16	46.74	33.67	47.38	0.000446	6.42	3755.56	219.27	0.27
E100-00-00_N034	26366.0	2PCT_50yr	33156.00	15.16	52.27	36.12	52.81	0.000329	6.13	7052.66	3011.09	0.24
E100-00-00_N034	26366.0	1PCT_100yr	36459.00	15.16	53.35	36.93	53.89	0.000312	6.17	8332.72	4345.65	0.23
E100-00-00_N034	26140.	10PCT_10yr	24108.00	14.97	46.65	33.53	47.27	0.000465	6.39	6414.82	472.04	0.28
E100-00-00_N034	26140.	2PCT_50yr	33156.00	14.97	52.24	36.08	52.71	0.000269	5.86	12582.98	2777.12	0.22
E100-00-00_N034	26140.	1PCT_100yr	36459.00	14.97	53.33	36.90	53.78	0.000252	5.86	14464.15	4147.53	0.22
E100-00-00_N034	25536.0	10PCT_10yr	24108.00	14.48	46.36	33.46	46.99	0.000455	6.44	6397.59	633.20	0.28
E100-00-00_N034	25536.0	2PCT_50yr	33156.00	14.48	52.03	36.03	52.54	0.000295	6.01	12162.62	1512.03	0.23
E100-00-00_N034	25536.0	1PCT_100yr	36459.00	14.48	53.14	36.85	53.63	0.000279	6.05	14061.08	3435.75	0.22
E100-00-00_N034	25132.	10PCT_10yr	24108.00	14.29	46.20	33.69	46.81	0.000420	6.37	4267.53	370.15	0.28
E100-00-00_N034	25132.	2PCT_50yr	33156.00	14.29	51.86	36.49	52.42	0.000271	6.22	7375.04	1271.21	0.23
E100-00-00_N034	25132.	1PCT_100yr	36459.00	14.29	52.96	37.31	53.52	0.000263	6.33	8895.99	3044.31	0.23
E100-00-00_N034	24817.0	10PCT_10yr	24108.00	14.14	45.79	33.92	46.58	0.000715	7.17	3364.14	229.00	0.33
E100-00-00_N034	24817.0	2PCT_50yr	33156.00	14.14	51.52	36.55	52.25	0.000474	6.92	4925.71	704.04	0.28
E100-00-00_N034	24817.0	1PCT_100yr	36459.00	14.14	52.53	37.48	53.33	0.000481	7.21	5235.07	1342.02	0.28
E100-00-00_N034	24789.0		Bridge									
E100-00-00_N034	24758.0	10PCT_10yr	24108.00	13.76	45.24	33.53	46.06	0.000722	7.26	3319.75	224.57	0.33
E100-00-00_N034	24758.0	2PCT_50yr	33156.00	13.76	51.23	36.17	51.97	0.000472	6.91	4920.64	648.91	0.28
E100-00-00_N034	24758.0	1PCT_100yr	36459.00	13.76	52.12	37.10	52.93	0.000490	7.25	5188.74	812.60	0.28
E100-00-00_N034	24636.	10PCT_10yr	24108.00	13.61	45.27		45.89	0.000477	6.42	4117.51	411.99	0.28
E100-00-00_N034	24636.	2PCT_50yr	33156.00	13.61	51.36		51.76	0.000285	5.43	8158.78	1332.31	0.21
E100-00-00_N034	24636.	1PCT_100yr	36459.00	13.61	52.28		52.68	0.000278	5.52	9477.88	1525.86	0.21
E100-00-00_N034	23934.0	10PCT_10yr	24108.00	12.75	44.92		45.51	0.000598	6.15	3917.25	283.30	0.29
E100-00-00_N034	23934.0	2PCT_50yr	33156.00	12.75	51.04		51.53	0.000346	5.65	6929.06	940.75	0.23
E100-00-00_N034	23934.0	1PCT_100yr	36459.00	12.75	51.93		52.45	0.000351	5.87	7887.34	1235.83	0.23
E100-00-00_N034	23550.0	10PCT_10yr	24108.00	12.77	44.78	30.91	45.30	0.000370	5.75	4193.82	253.06	0.25
E100-00-00_N034	23550.0	2PCT_50yr	33156.00	12.77	50.92	33.32	51.39	0.000314	5.50	6402.54	634.98	0.22
E100-00-00_N034	23550.0	1PCT_100yr	36459.00	12.77	51.80	34.11	52.31	0.000323	5.75	7030.16	791.94	0.23
E100-00-00_N034	23506.5		Bridge									
E100-00-00_N034	23444.0	10PCT_10yr	24108.00	12.69	44.58	30.82	45.10	0.000376	5.79	4162.97	251.82	0.25
E100-00-00_N034	23444.0	2PCT_50yr	33156.00	12.69	50.77	33.24	51.24	0.000318	5.52	6357.37	621.40	0.22
E100-00-00_N034	23444.0	1PCT_100yr	36459.00	12.69	51.63	34.03	52.15	0.000329	5.78	6958.21	770.54	0.23
E100-00-00_N034	23180.	10PCT_10yr	24108.00	12.46	44.33		44.96	0.000411	6.44	4067.54	483.24	0.27
E100-00-00_N034	23180.	2PCT_50yr	33156.00	12.46	50.73		51.15	0.000211	5.65	9519.56	1239.57	0.20
E100-00-00_N034	23180.	1PCT_100yr	36459.00	12.46	51.59		52.04	0.000216	5.85	10679.48	1419.18	0.21
E100-00-00_N034	22983.	10PCT_10yr	24108.00	12.29	44.02		44.85	0.000614	7.32	3452.52	427.01	0.32
E100-00-00_N034	22983.	2PCT_50yr	33156.00	12.29	50.63		51.10	0.000287	5.97	9373.08	1651.64	0.23
E100-00-00_N034	22983.	1PCT_100yr	36459.00	12.29	51.52		51.99	0.000279	6.06	10912.50	1764.10	0.23
E100-00-00_N034	22834.0	10PCT_10yr	24108.00	12.16	43.87	32.27	44.75	0.000567	7.49	3218.56	432.84	0.32
E100-00-00_N034	22834.0	2PCT_50yr	33156.00	12.16	50.50	35.05	51.04	0.000303	6.32	10118.89	1729.33	0.24
E100-00-00_N034	22834.0	1PCT_100yr	36459.00	12.16	51.39	35.90	51.93	0.000296	6.42	11704.44	1808.21	0.24
E100-00-00_N034	22796.5		Bridge									
E100-00-00_N034	22758.0	10PCT_10yr	24108.00	12.11	43.67	32.22	44.55	0.000578	7.55	3322.95	416.58	0.32
E100-00-00_N034	22758.0	2PCT_50yr	33156.00	12.11	50.27	34.96	50.84	0.000316	6.42	9821.03	1714.11	0.24
E100-00-00_N034	22758.0	1PCT_100yr	36459.00	12.11	51.26	35.78	51.80	0.000302	6.47	11548.81	1800.62	0.24

HEC-RAS Plan: Rev Ext River: E100-00-00 Reach: E100-00-00_N034 (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
E100-00-00_N034	22610.	10PCT_10yr	24108.00	11.92	43.66		44.40	0.000535	6.98	3744.98	427.25	0.30
E100-00-00_N034	22610.	2PCT_50yr	33156.00	11.92	50.31		50.74	0.000246	5.75	9760.65	1927.61	0.21
E100-00-00_N034	22610.	1PCT_100yr	36459.00	11.92	51.29		51.71	0.000235	5.78	11708.90	2027.52	0.21
E100-00-00_N034	22224.0	10PCT_10yr	24108.00	11.41	43.71		44.09	0.000484	5.22	6307.45	686.67	0.24
E100-00-00_N034	22224.0	2PCT_50yr	33156.00	11.41	50.35		50.59	0.000209	4.41	13183.05	1965.69	0.17
E100-00-00_N034	22224.0	1PCT_100yr	36459.00	11.41	51.33		51.57	0.000206	4.50	15237.66	2329.61	0.17
E100-00-00_N034	21444.0	10PCT_10yr	24108.00	10.52	42.90		43.65	0.000591	6.95	3471.95	235.86	0.31
E100-00-00_N034	21444.0	2PCT_50yr	33156.00	10.52	49.92		50.39	0.000277	5.82	9396.15	1557.94	0.22
E100-00-00_N034	21444.0	1PCT_100yr	36459.00	10.52	50.91		51.38	0.000271	5.93	10994.13	1681.21	0.22
E100-00-00_N034	20746.0	10PCT_10yr	24108.00	10.00	42.45		43.21	0.000663	6.99	3447.74	232.83	0.32
E100-00-00_N034	20746.0	2PCT_50yr	33156.00	10.00	49.64		50.04	0.001034	5.36	8767.53	1855.82	0.23
E100-00-00_N034	20746.0	1PCT_100yr	36459.00	10.00	50.68		51.03	0.000892	5.18	10724.85	1903.49	0.22
E100-00-00_N034	20644.0	10PCT_10yr	24108.00	9.95	42.45	30.32	43.10	0.000479	6.57	4496.29	675.20	0.28
E100-00-00_N034	20644.0	2PCT_50yr	33156.00	9.95	49.65	32.88	49.95	0.000174	4.98	13064.61	1846.04	0.18
E100-00-00_N034	20644.0	1PCT_100yr	36459.00	9.95	50.67	33.73	50.97	0.000167	5.01	14967.01	1872.68	0.18
E100-00-00_N034	20633.0		Bridge									
E100-00-00_N034	20622.0	10PCT_10yr	24108.00	9.95	42.28		42.95	0.000497	6.66	4364.45	664.11	0.29
E100-00-00_N034	20622.0	2PCT_50yr	33156.00	9.95	49.53		49.84	0.000179	5.02	12822.13	1842.87	0.18
E100-00-00_N034	20622.0	1PCT_100yr	36459.00	9.95	50.55		50.85	0.000172	5.06	14709.79	1869.35	0.18
E100-00-00_N034	20521.	10PCT_10yr	24108.00	9.91	42.20		42.90	0.000469	6.81	4410.41	568.25	0.29
E100-00-00_N034	20521.	2PCT_50yr	33156.00	9.91	49.44		49.80	0.000185	5.40	12126.38	1685.19	0.19
E100-00-00_N034	20521.	1PCT_100yr	36459.00	9.91	50.45		50.81	0.000180	5.47	13847.33	1715.01	0.19
E100-00-00_N034	19917.0	10PCT_10yr	24108.00	9.66	41.81		42.57	0.000585	7.05	4760.16	394.26	0.31
E100-00-00_N034	19917.0	2PCT_50yr	33156.00	9.66	48.98		49.62	0.000342	6.50	8163.85	784.71	0.24
E100-00-00_N034	19917.0	1PCT_100yr	36459.00	9.66	49.93		50.63	0.000354	6.80	8974.54	912.63	0.25
E100-00-00_N034	19463.0	10PCT_10yr	24108.00	9.25	41.57		42.29	0.000569	6.94	7851.59	526.90	0.31
E100-00-00_N034	19463.0	2PCT_50yr	33156.00	9.25	48.89		49.45	0.000320	6.20	13362.19	1300.30	0.24
E100-00-00_N034	19463.0	1PCT_100yr	36459.00	9.25	49.84		50.44	0.000330	6.48	14776.15	1614.35	0.24
E100-00-00_N034	18377.	10PCT_10yr	24108.00	7.06	41.13	27.13	41.78	0.000374	6.46	3754.92	235.07	0.27
E100-00-00_N034	18377.	2PCT_50yr	33156.00	7.06	48.67	29.86	49.16	0.000190	5.83	8360.31	1683.99	0.20
E100-00-00_N034	18377.	1PCT_100yr	36459.00	7.06	49.62	30.78	50.15	0.000197	6.08	9210.64	1833.86	0.21
E100-00-00_N034	18234.0	10PCT_10yr	24108.00	6.77	41.24	27.65	41.57	0.000271	4.62	5223.45	307.84	0.20
E100-00-00_N034	18234.0	2PCT_50yr	33156.00	6.77	48.76	29.70	49.02	0.000152	4.20	9402.58	1316.50	0.15
E100-00-00_N034	18234.0	1PCT_100yr	36459.00	6.77	49.71	30.35	50.00	0.000158	4.39	10206.24	1506.76	0.16
E100-00-00_N034	18220.0		Bridge									
E100-00-00_N034	18199.0	10PCT_10yr	24108.00	6.70	39.66	27.58	40.06	0.000354	5.06	4762.72	301.10	0.22
E100-00-00_N034	18199.0	2PCT_50yr	33156.00	6.70	45.79	29.63	46.16	0.000248	4.91	7279.52	627.63	0.19
E100-00-00_N034	18199.0	1PCT_100yr	36459.00	6.70	47.45	30.24	47.82	0.000227	4.94	8393.31	1167.36	0.19
E100-00-00_N034	18176.0	10PCT_10yr	24108.00	6.79	39.26	27.99	39.96	0.000550	6.71	3593.48	225.42	0.30
E100-00-00_N034	18176.0	2PCT_50yr	33156.00	6.79	45.47	30.29	46.08	0.000369	6.33	6324.31	841.80	0.25
E100-00-00_N034	18176.0	1PCT_100yr	36459.00	6.79	47.17	31.05	47.75	0.000324	6.25	7734.26	1340.45	0.23
E100-00-00_N034	18138.0		Bridge									
E100-00-00_N034	18082.0	10PCT_10yr	24108.00	6.87	38.48	28.06	39.26	0.000628	7.09	3402.39	219.69	0.32
E100-00-00_N034	18082.0	2PCT_50yr	33156.00	6.87	43.44	30.37	44.25	0.000547	7.22	4865.96	540.30	0.30
E100-00-00_N034	18082.0	1PCT_100yr	36459.00	6.87	44.74	31.13	45.56	0.000522	7.33	5680.62	776.11	0.29
E100-00-00_N034	17905.	10PCT_10yr	24108.00	6.86	38.41		39.11	0.000571	6.73	3594.06	243.77	0.30
E100-00-00_N034	17905.	2PCT_50yr	33156.00	6.86	43.43		44.10	0.000421	6.72	6382.22	948.77	0.27
E100-00-00_N034	17905.	1PCT_100yr	36459.00	6.86	44.74		45.40	0.000389	6.74	7730.60	1107.09	0.26
E100-00-00_N034	17756.0	10PCT_10yr	24108.00	6.85	38.33	27.65	39.01	0.000680	6.62	3642.76	273.08	0.32
E100-00-00_N034	17756.0	2PCT_50yr	33156.00	6.85	43.42	30.08	43.98	0.000434	6.22	6669.84	1083.98	0.26
E100-00-00_N034	17756.0	1PCT_100yr	36459.00	6.85	44.73	30.88	45.29	0.000391	6.20	7810.15	1188.37	0.25
E100-00-00_N034	17678.5		Bridge									
E100-00-00_N034	17597.0	10PCT_10yr	24108.00	6.35	36.78	27.15	37.58	0.000797	7.16	3366.07	257.95	0.35
E100-00-00_N034	17597.0	2PCT_50yr	33156.00	6.35	41.86	29.58	42.58	0.000568	6.83	5252.11	623.63	0.30
E100-00-00_N034	17597.0	1PCT_100yr	36459.00	6.35	43.85	30.38	44.50	0.000450	6.56	6635.48	757.02	0.27
E100-00-00_N034	17318.	10PCT_10yr	24108.00	6.35	36.38		37.33	0.000708	7.80	3092.61	203.41	0.35
E100-00-00_N034	17318.	2PCT_50yr	33156.00	6.35	41.36		42.33	0.000664	7.92	4185.08	238.13	0.33
E100-00-00_N034	17318.	1PCT_100yr	36459.00	6.35	43.31		44.26	0.000610	7.82	4696.77	334.65	0.32
E100-00-00_N034	16831.0	10PCT_10yr	24330.00	6.34	36.45	26.29	37.08	0.000173	6.35	3828.83	321.44	0.32
E100-00-00_N034	16831.0	2PCT_50yr	33340.00	6.34	41.54	28.49	42.06	0.000150	5.79	5757.47	444.18	0.28
E100-00-00_N034	16831.0	1PCT_100yr	36603.00	6.34	43.53	29.20	43.99	0.000137	5.47	6692.06	497.34	0.26

E100-00-00 Revised Existing
HEC-RAS Output

HEC-RAS Plan: Rev Ext River: E100-00-00 Reach: E100-00-00_N034 (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
E100-00-00_N034	15795.0	10PCT_10yr	24330.00	4.84	36.41		36.74	0.000368	4.55	5343.24	390.06	0.22
E100-00-00_N034	15795.0	2PCT_50yr	33340.00	4.84	41.49		41.79	0.000275	4.45	7661.01	555.77	0.19
E100-00-00_N034	15795.0	1PCT_100yr	36603.00	4.84	43.47		43.76	0.000236	4.35	8940.45	786.09	0.18
E100-00-00_N034	15278.	10PCT_10yr	24330.00	4.41	35.80		36.52	0.000315	6.81	3575.03	228.39	0.30
E100-00-00_N034	15278.	2PCT_50yr	33340.00	4.41	40.88		41.61	0.000262	6.92	5167.42	619.88	0.27
E100-00-00_N034	15278.	1PCT_100yr	36603.00	4.41	42.93		43.60	0.000229	6.69	6506.32	665.04	0.26
E100-00-00_N034	14977.0	10PCT_10yr	24330.00	4.16	35.83	24.28	36.39	0.000100	6.01	4049.73	259.03	0.27
E100-00-00_N034	14977.0	2PCT_50yr	33340.00	4.16	40.91	26.53	41.49	0.000079	6.12	5754.66	652.45	0.25
E100-00-00_N034	14977.0	1PCT_100yr	36603.00	4.16	42.95	27.24	43.51	0.000067	6.01	7323.72	703.76	0.23
E100-00-00_N034	14937.0		Bridge									
E100-00-00_N034	14897.0	10PCT_10yr	24330.00	3.39	35.01	23.51	35.58	0.000101	6.03	4037.63	258.76	0.27
E100-00-00_N034	14897.0	2PCT_50yr	33340.00	3.39	40.49	25.74	41.05	0.000075	6.02	5733.41	572.99	0.24
E100-00-00_N034	14897.0	1PCT_100yr	36603.00	3.39	42.34	26.46	42.89	0.000066	5.99	7111.54	694.30	0.23
E100-00-00_N034	14590.0	10PCT_10yr	24330.00	3.45	34.48	23.66	35.42	0.000166	7.79	3125.04	195.02	0.34
E100-00-00_N034	14590.0	2PCT_50yr	33340.00	3.45	39.96	26.34	40.90	0.000131	7.79	4400.68	440.07	0.31
E100-00-00_N034	14590.0	1PCT_100yr	36603.00	3.45	41.83	27.21	42.74	0.000115	7.75	5448.69	804.77	0.30
E100-00-00_N034	14562.0		Bridge									
E100-00-00_N034	14532.0	10PCT_10yr	24330.00	3.41	34.36	23.62	35.31	0.000673	7.83	3108.75	194.54	0.35
E100-00-00_N034	14532.0	2PCT_50yr	33340.00	3.41	38.73	26.30	39.80	0.000685	8.31	4026.83	327.83	0.34
E100-00-00_N034	14532.0	1PCT_100yr	36603.00	3.41	40.56	27.13	41.62	0.000618	8.25	4642.64	567.94	0.33
E100-00-00_N034	14354.0	10PCT_10yr	24330.00	3.29	34.61	22.88	34.98	0.000098	4.90	4962.94	478.45	0.21
E100-00-00_N034	14354.0	2PCT_50yr	33340.00	3.29	39.11	24.60	39.36	0.000083	4.06	8383.88	607.79	0.18
E100-00-00_N034	14354.0	1PCT_100yr	36603.00	3.29	40.94	25.14	41.18	0.000077	4.00	9604.60	742.37	0.17
E100-00-00_N034	13924.0	10PCT_10yr	24330.00	3.18	34.11	22.69	34.81	0.000501	6.68	3640.94	321.07	0.29
E100-00-00_N034	13924.0	2PCT_50yr	33340.00	3.18	38.47	24.90	39.16	0.000443	6.85	5440.58	366.81	0.27
E100-00-00_N034	13924.0	1PCT_100yr	36603.00	3.18	40.32	25.63	40.99	0.000401	6.77	6136.76	384.09	0.26
E100-00-00_N034	13909.5		Bridge									
E100-00-00_N034	13898.0	10PCT_10yr	24330.00	2.95	33.81	22.46	34.51	0.000507	6.71	3625.43	318.45	0.29
E100-00-00_N034	13898.0	2PCT_50yr	33340.00	2.95	38.19	24.66	38.89	0.000449	6.89	5392.68	364.87	0.27
E100-00-00_N034	13898.0	1PCT_100yr	36603.00	2.95	40.06	25.40	40.74	0.000405	6.80	6090.71	381.77	0.26
E100-00-00_N034	13494.	10PCT_10yr	24330.00	2.47	33.66	22.43	34.20	0.000636	5.92	4112.72	395.21	0.27
E100-00-00_N034	13494.	2PCT_50yr	33340.00	2.47	38.14	24.57	38.57	0.000513	5.45	6752.15	449.17	0.23
E100-00-00_N034	13494.	1PCT_100yr	36603.00	2.47	40.03	25.30	40.42	0.000480	5.29	7628.25	482.74	0.22
E100-00-00_N034	13220.0	10PCT_10yr	24330.00	2.15	33.73	22.33	34.02	0.000100	4.33	5621.44	568.04	0.19
E100-00-00_N034	13220.0	2PCT_50yr	33340.00	2.15	38.16	23.95	38.44	0.000088	4.37	9106.30	735.91	0.18
E100-00-00_N034	13220.0	1PCT_100yr	36603.00	2.15	40.05	24.43	40.32	0.000079	4.27	10534.30	802.67	0.17
E100-00-00_N034	13182.5		Bridge									
E100-00-00_N034	13143.0	10PCT_10yr	24330.00	2.15	33.66	22.33	33.94	0.000097	4.22	6142.81	500.62	0.19
E100-00-00_N034	13143.0	2PCT_50yr	33340.00	2.15	37.89	23.95	38.19	0.000092	4.43	8431.32	595.90	0.18
E100-00-00_N034	13143.0	1PCT_100yr	36603.00	2.15	39.79	24.39	40.08	0.000084	4.38	9630.92	687.46	0.17
E100-00-00_N034	12698.	10PCT_10yr	24330.00	1.87	33.30		33.79	0.000371	5.64	4316.65	341.14	0.28
E100-00-00_N034	12698.	2PCT_50yr	33340.00	1.87	37.55		38.05	0.000323	5.71	5843.26	378.58	0.26
E100-00-00_N034	12698.	1PCT_100yr	36603.00	1.87	39.48		39.96	0.000294	5.55	6603.07	410.92	0.24
E100-00-00_N034	12066.0	10PCT_10yr	24330.00	1.47	33.22		33.52	0.000312	4.41	5518.81	377.80	0.20
E100-00-00_N034	12066.0	2PCT_50yr	33340.00	1.47	37.47		37.80	0.000323	4.57	7298.73	466.70	0.20
E100-00-00_N034	12066.0	1PCT_100yr	36603.00	1.47	39.42		39.73	0.000288	4.45	8234.50	494.68	0.19
E100-00-00_N034	11546.0	10PCT_10yr	24330.00	0.90	33.17	21.08	33.42	0.000095	4.01	6224.78	587.44	0.20
E100-00-00_N034	11546.0	2PCT_50yr	33340.00	0.90	37.46	22.91	37.70	0.000084	3.98	9714.46	985.41	0.17
E100-00-00_N034	11546.0	1PCT_100yr	36603.00	0.90	39.41	23.49	39.62	0.000072	3.80	11732.41	1219.57	0.16
E100-00-00_N034	11021.	10PCT_10yr	24330.00	0.63	33.18	20.52	33.37	0.000075	3.51	6928.04	726.09	0.17
E100-00-00_N034	11021.	2PCT_50yr	33340.00	0.63	37.44	22.40	37.64	0.000072	3.62	9218.69	943.56	0.16
E100-00-00_N034	11021.	1PCT_100yr	36603.00	0.63	39.39	22.97	39.58	0.000066	3.55	10484.48	1301.71	0.15
E100-00-00_N034	10908.0	10PCT_10yr	24330.00	0.57	33.20	20.66	33.33	0.000067	2.94	8279.48	872.84	0.15
E100-00-00_N034	10908.0	2PCT_50yr	33340.00	0.57	37.47	22.59	37.60	0.000061	2.97	11477.77	1157.52	0.13
E100-00-00_N034	10908.0	1PCT_100yr	36603.00	0.57	39.41	23.14	39.54	0.000055	2.89	13608.70	1618.80	0.12
E100-00-00_N034	10852.5		Bridge									
E100-00-00_N034	10804.0	10PCT_10yr	24330.00	0.45	33.06	20.54	33.19	0.000067	2.94	8264.99	872.29	0.15
E100-00-00_N034	10804.0	2PCT_50yr	33340.00	0.45	37.45	22.43	37.58	0.000060	2.95	11573.43	1167.54	0.13
E100-00-00_N034	10804.0	1PCT_100yr	36603.00	0.45	39.40	23.37	39.52	0.000054	2.87	13749.41	1641.46	0.12
E100-00-00_N034	10643.	10PCT_10yr	24330.00	0.14	32.53	18.89	33.06	0.000350	5.82	4368.57	371.25	0.25
E100-00-00_N034	10643.	2PCT_50yr	33340.00	0.14	36.91	21.30	37.44	0.000307	6.03	6082.03	608.67	0.24
E100-00-00_N034	10643.	1PCT_100yr	36603.00	0.14	38.89	22.08	39.39	0.000270	5.89	7114.67	902.28	0.22

E100-00-00 Revised Existing
HEC-RAS Output

HEC-RAS Plan: Rev Ext River: E100-00-00 Reach: E100-00-00_N034 (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
E100-00-00_N034	9779.0	10PCT_10yr	24330.00	-1.51	32.61	18.33	32.85	0.000075	3.92	7117.91	592.36	0.17
E100-00-00_N034	9779.0	2PCT_50yr	33340.00	-1.51	36.99	20.30	37.24	0.000073	4.11	10010.32	936.51	0.16
E100-00-00_N034	9779.0	1PCT_100yr	36603.00	-1.51	38.97	21.00	39.21	0.000066	4.03	11716.21	1082.06	0.15
E100-00-00_N034	8532.0	10PCT_10yr	24330.00	-1.76	32.69	17.27	32.74	0.000025	1.70	14291.68	876.58	0.07
E100-00-00_N034	8532.0	2PCT_50yr	33340.00	-1.76	37.08	18.08	37.13	0.000024	1.85	18310.70	1163.69	0.07
E100-00-00_N034	8532.0	1PCT_100yr	36603.00	-1.76	39.06	18.34	39.11	0.000022	1.86	20412.10	1419.04	0.07
E100-00-00_N034	8140.	10PCT_10yr	24330.00	-2.43	32.67		32.72	0.000211	1.78	14533.21	1150.34	0.08
E100-00-00_N034	8140.	2PCT_50yr	33340.00	-2.43	37.06		37.11	0.000167	1.84	20279.01	1387.49	0.07
E100-00-00_N034	8140.	1PCT_100yr	36603.00	-2.43	39.04		39.09	0.000143	1.81	23133.48	1517.72	0.07
E100-00-00_N034	7649.0	10PCT_10yr	24330.00	-3.26	32.46	16.64	32.64	0.000047	3.57	12759.29	1365.76	0.14
E100-00-00_N034	7649.0	2PCT_50yr	33340.00	-3.26	36.87	19.11	37.04	0.000043	3.68	19280.55	1726.46	0.13
E100-00-00_N034	7649.0	1PCT_100yr	36603.00	-3.26	38.87	19.68	39.03	0.000038	3.57	22535.47	1765.96	0.12
E100-00-00_N034	7608.5		Bridge									
E100-00-00_N034	7568.0	10PCT_10yr	24330.00	-3.15	32.42	16.65	32.60	0.000049	3.60	12551.54	1362.54	0.14
E100-00-00_N034	7568.0	2PCT_50yr	33340.00	-3.15	36.86	19.14	37.03	0.000044	3.71	19087.49	1724.10	0.13
E100-00-00_N034	7568.0	1PCT_100yr	36603.00	-3.15	38.82	19.65	38.98	0.000039	3.60	22280.08	1762.88	0.12
E100-00-00_N034	7546.0	10PCT_10yr	24330.00	-3.16	32.42	16.62	32.59	0.000047	3.54	11480.80	1384.63	0.14
E100-00-00_N034	7546.0	2PCT_50yr	33340.00	-3.16	36.88	19.10	37.03	0.000040	3.52	18685.34	1720.01	0.13
E100-00-00_N034	7546.0	1PCT_100yr	36603.00	-3.16	38.84	19.66	38.98	0.000035	3.39	22058.83	1799.46	0.12
E100-00-00_N034	7535.5		Bridge									
E100-00-00_N034	7529.0	10PCT_10yr	24330.00	-3.16	32.39	16.61	32.56	0.000048	3.55	11432.81	1383.34	0.14
E100-00-00_N034	7529.0	2PCT_50yr	33340.00	-3.16	36.82	18.99	36.98	0.000041	3.54	18594.89	1718.79	0.13
E100-00-00_N034	7529.0	1PCT_100yr	36603.00	-3.16	38.79	19.64	38.93	0.000035	3.40	21973.11	1797.50	0.12
E100-00-00_N034	7353.	10PCT_10yr	24330.00	-3.18	32.34		32.54	0.000060	3.69	9268.81	1058.77	0.15
E100-00-00_N034	7353.	2PCT_50yr	33340.00	-3.18	36.75		36.95	0.000057	3.83	15592.53	1752.40	0.14
E100-00-00_N034	7353.	1PCT_100yr	36603.00	-3.18	38.73		38.91	0.000049	3.68	19283.19	1954.95	0.13
E100-00-00_N034	6975.0	10PCT_10yr	24330.00	-3.22	32.38	16.78	32.46	0.000047	2.25	11156.09	920.09	0.10
E100-00-00_N034	6975.0	2PCT_50yr	33340.00	-3.22	36.79	17.99	36.88	0.000044	2.38	15910.83	1024.30	0.09
E100-00-00_N034	6975.0	1PCT_100yr	36603.00	-3.22	38.76	18.35	38.84	0.000040	2.36	17952.21	1094.98	0.09
E100-00-00_N034	6935.0		Bridge									
E100-00-00_N034	6898.0	10PCT_10yr	32373.00	-4.23	32.35	16.91	32.47	0.000074	2.83	12129.23	919.76	0.12
E100-00-00_N034	6898.0	2PCT_50yr	43311.00	-4.23	36.76	18.10	36.89	0.000069	2.96	16501.14	1024.15	0.11
E100-00-00_N034	6898.0	1PCT_100yr	47867.00	-4.23	38.73	18.56	38.86	0.000065	2.97	18542.59	1091.05	0.11
E100-00-00_N034	6775.	10PCT_10yr	32373.00	-4.30	32.33	18.01	32.46	0.000073	2.92	11306.92	788.71	0.12
E100-00-00_N034	6775.	2PCT_50yr	43311.00	-4.30	36.74	19.12	36.88	0.000068	3.04	15051.14	884.07	0.12
E100-00-00_N034	6775.	1PCT_100yr	47867.00	-4.30	38.71	19.54	38.85	0.000064	3.05	16826.47	1017.33	0.11
E100-00-00_N034	6473.0	10PCT_10yr	32373.00	-4.46	32.21	17.15	32.40	0.000274	3.50	9319.72	791.70	0.15
E100-00-00_N034	6473.0	2PCT_50yr	43311.00	-4.46	36.65	18.86	36.83	0.000208	3.54	13670.11	1162.73	0.13
E100-00-00_N034	6473.0	1PCT_100yr	47867.00	-4.46	38.64	19.28	38.81	0.000178	3.47	15765.53	1297.40	0.13
E100-00-00_N034	6448.0		Bridge									
E100-00-00_N034	6423.0	10PCT_10yr	32373.00	-4.33	32.19	17.27	32.38	0.000281	3.53	9215.34	765.25	0.15
E100-00-00_N034	6423.0	2PCT_50yr	43311.00	-4.33	36.62	18.98	36.81	0.000214	3.57	13506.35	1159.87	0.14
E100-00-00_N034	6423.0	1PCT_100yr	47867.00	-4.33	38.62	19.41	38.79	0.000183	3.50	15604.12	1250.09	0.13
E100-00-00_N034	6174.0	10PCT_10yr	32373.00	-4.69	32.13	17.99	32.31	0.000154	3.98	12185.72	980.85	0.16
E100-00-00_N034	6174.0	2PCT_50yr	43311.00	-4.69	36.59	20.11	36.76	0.000119	3.92	17359.38	1168.18	0.14
E100-00-00_N034	6174.0	1PCT_100yr	47867.00	-4.69	38.59	21.05	38.74	0.000104	3.85	19709.65	1190.13	0.13
E100-00-00_N034	6128.0		Bridge									
E100-00-00_N034	6068.0	10PCT_10yr	32373.00	-3.96	32.08	18.72	32.27	0.000167	4.07	11956.11	977.26	0.16
E100-00-00_N034	6068.0	2PCT_50yr	43311.00	-3.96	36.54	20.24	36.70	0.000128	3.97	17103.87	1167.56	0.14
E100-00-00_N034	6068.0	1PCT_100yr	47867.00	-3.96	38.53	20.92	38.68	0.000110	3.89	19450.15	1189.48	0.14
E100-00-00_N034	5525.0	10PCT_10yr	32373.00	-3.15	32.06	17.20	32.16	0.000104	2.62	12366.63	755.53	0.11
E100-00-00_N034	5525.0	2PCT_50yr	43311.00	-3.15	36.51	18.49	36.63	0.000088	2.74	15788.56	782.57	0.11
E100-00-00_N034	5525.0	1PCT_100yr	47867.00	-3.15	38.50	18.95	38.62	0.000080	2.76	17359.33	800.41	0.10
E100-00-00_N034	4994.0	10PCT_10yr	32373.00	-3.09	31.83	16.00	32.05	0.000195	3.79	9269.42	620.87	0.15
E100-00-00_N034	4994.0	2PCT_50yr	43311.00	-3.09	36.28	17.45	36.53	0.000169	4.04	12131.42	664.14	0.14
E100-00-00_N034	4994.0	1PCT_100yr	47867.00	-3.09	38.28	18.03	38.52	0.000156	4.08	13475.46	683.50	0.14
E100-00-00_N034	4980.0		Bridge									
E100-00-00_N034	4961.0	10PCT_10yr	32373.00	-3.03	31.54	16.07	31.76	0.000207	3.87	9051.25	617.44	0.15
E100-00-00_N034	4961.0	2PCT_50yr	43311.00	-3.03	36.18	17.52	36.42	0.000174	4.07	12020.64	662.52	0.14
E100-00-00_N034	4961.0	1PCT_100yr	47867.00	-3.03	38.20	18.10	38.44	0.000159	4.11	13378.83	682.13	0.14

E100-00-00 Revised Existing
HEC-RAS Output

HEC-RAS Plan: Rev Ext River: E100-00-00 Reach: E100-00-00_N034 (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
E100-00-00_N034	4812.0	10PCT_10yr	32373.00	-3.49	31.33	15.63	31.68	0.000694	4.71	6872.21	494.32	0.22
E100-00-00_N034	4812.0	2PCT_50yr	43311.00	-3.49	36.01	17.44	36.35	0.000552	4.67	9270.47	563.35	0.20
E100-00-00_N034	4812.0	1PCT_100yr	47867.00	-3.49	38.05	18.14	38.38	0.000500	4.61	10377.86	680.32	0.19
E100-00-00_N034	4774.5		Bridge									
E100-00-00_N034	4687.0	10PCT_10yr	32373.00	-4.67	31.19	14.45	31.49	0.000565	4.38	7387.58	501.55	0.20
E100-00-00_N034	4687.0	2PCT_50yr	43311.00	-4.67	35.89	16.26	36.19	0.000471	4.40	9838.23	565.52	0.18
E100-00-00_N034	4687.0	1PCT_100yr	47867.00	-4.67	37.93	16.96	38.23	0.000435	4.36	10971.73	691.55	0.17
E100-00-00_N034	4407.	10PCT_10yr	32373.00	-3.62	30.83	16.18	31.29	0.000468	5.51	6071.71	482.03	0.23
E100-00-00_N034	4407.	2PCT_50yr	43311.00	-3.62	35.62	18.74	36.04	0.000338	5.40	9698.05	1174.69	0.20
E100-00-00_N034	4407.	1PCT_100yr	47867.00	-3.62	37.75	19.49	38.11	0.000275	5.16	11882.12	1279.74	0.18
E100-00-00_N034	4014.0	10PCT_10yr	32373.00	-2.15	30.78	14.84	31.02	0.000307	3.95	8191.47	492.83	0.17
E100-00-00_N034	4014.0	2PCT_50yr	43311.00	-2.15	35.59	16.87	35.83	0.000236	3.96	11992.37	1006.69	0.15
E100-00-00_N034	4014.0	1PCT_100yr	47867.00	-2.15	37.72	17.60	37.94	0.000197	3.83	14149.95	1017.71	0.14
E100-00-00_N034	3997.0		Bridge									
E100-00-00_N034	3976.0	10PCT_10yr	32373.00	-2.40	30.49	14.59	30.73	0.000310	3.96	8170.88	492.62	0.17
E100-00-00_N034	3976.0	2PCT_50yr	43311.00	-2.40	35.31	16.62	35.54	0.000237	3.97	11955.58	1006.50	0.15
E100-00-00_N034	3976.0	1PCT_100yr	47867.00	-2.40	37.45	17.35	37.66	0.000198	3.84	14121.40	1017.57	0.14
E100-00-00_N034	3681.	10PCT_10yr	32373.00	-3.80	30.17		30.57	0.000484	5.11	6394.15	475.78	0.23
E100-00-00_N034	3681.	2PCT_50yr	43311.00	-3.80	35.07		35.43	0.000332	4.91	10906.73	1331.56	0.19
E100-00-00_N034	3681.	1PCT_100yr	47867.00	-3.80	37.27		37.57	0.000259	4.61	13941.24	1399.30	0.17
E100-00-00_N034	3585.0	10PCT_10yr	32373.00	-4.26	30.12		30.53	0.000400	5.16	6276.29	439.99	0.23
E100-00-00_N034	3585.0	2PCT_50yr	43311.00	-4.26	35.00		35.39	0.000315	5.06	10621.52	1363.95	0.21
E100-00-00_N034	3585.0	1PCT_100yr	47867.00	-4.26	37.18		37.54	0.000269	4.89	13626.43	1387.62	0.19
E100-00-00_N034	2298.0	10PCT_10yr	32373.00	-6.21	29.64	13.71	30.00	0.000394	4.81	6864.83	604.14	0.20
E100-00-00_N034	2298.0	2PCT_50yr	43311.00	-6.21	34.64	15.83	34.99	0.000287	4.83	11909.66	1041.85	0.18
E100-00-00_N034	2298.0	1PCT_100yr	47867.00	-6.21	36.88	16.63	37.20	0.000240	4.70	14480.54	1222.41	0.16
E100-00-00_N034	1580.	10PCT_10yr	32373.00	-7.83	29.14	14.30	29.66	0.000530	6.09	7320.54	994.10	0.24
E100-00-00_N034	1580.	2PCT_50yr	43311.00	-7.83	34.47	16.91	34.78	0.000291	5.14	14659.00	1456.26	0.18
E100-00-00_N034	1580.	1PCT_100yr	47867.00	-7.83	36.77	17.89	37.02	0.000226	4.82	18220.08	1619.13	0.16
E100-00-00_N034	1353.0	10PCT_10yr	32373.00	-8.34	28.85	14.74	29.49	0.000744	6.81	7102.28	874.97	0.28
E100-00-00_N034	1353.0	2PCT_50yr	43311.00	-8.34	34.18	17.61	34.65	0.000448	6.21	12537.32	1594.57	0.22
E100-00-00_N034	1353.0	1PCT_100yr	47867.00	-8.34	36.53	18.64	36.92	0.000350	5.84	15728.43	1729.11	0.20
E100-00-00_N034	1335.0		Bridge									
E100-00-00_N034	1319.0	10PCT_10yr	32373.00	-8.37	27.67	14.71	28.71	0.001121	8.19	3952.92	636.12	0.34
E100-00-00_N034	1319.0	2PCT_50yr	43311.00	-8.37	33.97	17.55	34.45	0.000460	6.27	12423.79	1668.77	0.23
E100-00-00_N034	1319.0	1PCT_100yr	47867.00	-8.37	36.34	18.61	36.73	0.000356	5.87	15662.81	1798.25	0.20
E100-00-00_N034	984.0	10PCT_10yr	32373.00	-8.69	27.65	11.57	28.31	0.000400	6.51	5185.51	609.87	0.27
E100-00-00_N034	984.0	2PCT_50yr	43311.00	-8.69	33.87	14.43	34.33	0.000243	5.76	11332.28	980.61	0.21
E100-00-00_N034	984.0	1PCT_100yr	47867.00	-8.69	36.18	15.53	36.62	0.000215	5.67	13366.12	1483.38	0.20
E100-00-00_N034	961.5		Bridge									
E100-00-00_N034	851.0	10PCT_10yr	32373.00	-6.40	27.11	13.87	28.03	0.000646	7.69	4346.71	628.36	0.34
E100-00-00_N034	851.0	2PCT_50yr	43311.00	-6.40	33.68	16.71	34.19	0.000309	6.21	11125.33	996.42	0.24
E100-00-00_N034	851.0	1PCT_100yr	47867.00	-6.40	36.03	17.83	36.50	0.000268	6.03	13165.86	1366.88	0.22
E100-00-00_N034	654.0	10PCT_10yr	32373.00	-6.50	27.28	7.90	27.73	0.000198	5.37	6023.40	590.41	0.21
E100-00-00_N034	654.0	2PCT_50yr	43311.00	-6.50	33.73	11.14	34.07	0.000152	4.85	12495.14	1197.32	0.18
E100-00-00_N034	654.0	1PCT_100yr	47867.00	-6.50	36.07	12.34	36.39	0.000129	4.77	15833.04	1659.29	0.17
E100-00-00_N034	400.0	10PCT_10yr	32373.00	-8.58	26.77	10.93	27.56	0.000295	7.13	4538.54	468.66	0.27
E100-00-00_N034	400.0	2PCT_50yr	43311.00	-8.58	33.34	14.15	33.94	0.000226	6.52	9798.09	787.78	0.23
E100-00-00_N034	400.0	1PCT_100yr	47867.00	-8.58	35.72	15.20	36.27	0.000202	6.39	12982.85	1822.88	0.22
E100-00-00_N034	381.0		Bridge									
E100-00-00_N034	365.0	10PCT_10yr	32373.00	-8.23	26.56	11.26	27.40	0.000310	7.32	4419.77	479.70	0.28
E100-00-00_N034	365.0	2PCT_50yr	43311.00	-8.23	33.28	14.50	33.87	0.000229	6.52	9566.45	768.10	0.23
E100-00-00_N034	365.0	1PCT_100yr	47867.00	-8.23	35.67	15.51	36.21	0.000201	6.32	12744.64	1861.44	0.22
E100-00-00_N034	210.0	10PCT_10yr	32373.00	-7.81	26.27	11.78	27.29	0.000367	8.09	4002.89	551.77	0.31
E100-00-00_N034	210.0	2PCT_50yr	43311.00	-7.81	33.04	14.43	33.78	0.000252	7.31	9053.44	922.62	0.25
E100-00-00_N034	210.0	1PCT_100yr	47867.00	-7.81	35.40	15.62	36.11	0.000234	7.24	10671.05	1977.01	0.24
E100-00-00_N034	191.0		Bridge									
E100-00-00_N034	173.0	10PCT_10yr	32373.00	-6.84	25.93	12.76	27.08	0.000442	8.61	3759.12	681.82	0.34
E100-00-00_N034	173.0	2PCT_50yr	43311.00	-6.84	32.73	15.40	33.60	0.000300	7.82	8320.60	1225.23	0.27
E100-00-00_N034	173.0	1PCT_100yr	47867.00	-6.84	35.21	16.57	36.04	0.000277	7.71	10168.22	2325.60	0.26
E100-00-00_N034	-442	10PCT_10yr	39773.00	-14.28	25.87	5.21	26.59	0.000422	7.03	7073.74	336.42	0.22

E100-00-00 Revised Existing
HEC-RAS Output

HEC-RAS Plan: Rev Ext River: E100-00-00 Reach: E100-00-00_N034 (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
E100-00-00_N034	-442	2PCT_50yr	56292.00	-14.28	32.51	9.72	33.38	0.000408	7.88	9389.88	361.54	0.23
E100-00-00_N034	-442	1PCT_100yr	64016.00	-14.28	34.81	11.39	35.78	0.000423	8.35	10232.12	377.58	0.23
E100-00-00_N034	-475		Bridge									
E100-00-00_N034	-508	10PCT_10yr	39773.00	-15.31	25.05	4.18	25.75	0.000411	6.97	7142.97	337.19	0.22
E100-00-00_N034	-508	2PCT_50yr	56292.00	-15.31	31.67	8.69	32.54	0.000401	7.83	9460.27	362.28	0.23
E100-00-00_N034	-508	1PCT_100yr	64016.00	-15.31	34.72	10.36	35.63	0.000388	8.12	10588.40	562.79	0.23
E100-00-00_N034	-553.5	10PCT_10yr	39773.00	-16.48	24.82	4.63	25.69	0.000474	7.74	6660.76	321.43	0.24
E100-00-00_N034	-553.5	2PCT_50yr	56292.00	-16.48	31.39	8.56	32.46	0.000477	8.76	8801.93	331.03	0.25
E100-00-00_N034	-553.5	1PCT_100yr	64016.00	-16.48	34.40	10.22	35.54	0.000467	9.11	9807.19	335.44	0.25
E100-00-00_N034	-598.5		Bridge									
E100-00-00_N034	-643.5	10PCT_10yr	39773.00	-16.89	24.48	4.21	25.34	0.000470	7.72	6682.92	321.53	0.24
E100-00-00_N034	-643.5	2PCT_50yr	56292.00	-16.89	30.81	8.15	31.89	0.000484	8.81	8746.58	330.78	0.25
E100-00-00_N034	-643.5	1PCT_100yr	64016.00	-16.89	33.41	9.81	34.60	0.000492	9.26	9613.39	334.59	0.25
E100-00-00_N034	-874.7	10PCT_10yr	39773.00	-17.14	24.14	5.91	25.17	0.000674	8.32	5354.84	348.98	0.27
E100-00-00_N034	-874.7	2PCT_50yr	56292.00	-17.14	30.69	10.23	31.76	0.000579	8.80	7595.49	475.19	0.26
E100-00-00_N034	-874.7	1PCT_100yr	64016.00	-17.14	33.37	11.80	34.41	0.000533	8.84	9762.62	860.41	0.25
E100-00-00_N034	-890.6		Bridge									
E100-00-00_N034	-906.5	10PCT_10yr	39773.00	-17.55	23.91	5.50	24.91	0.000659	8.26	5409.00	352.05	0.26
E100-00-00_N034	-906.5	2PCT_50yr	56292.00	-17.55	30.46	9.84	31.50	0.000567	8.73	7657.26	479.98	0.25
E100-00-00_N034	-906.5	1PCT_100yr	64016.00	-17.55	33.04	11.44	34.06	0.000528	8.82	9828.44	954.30	0.25
E100-00-00_N034	-1428.4	10PCT_10yr	39773.00	-12.77	23.82	4.55	24.45	0.000429	6.34	6275.09	250.16	0.22
E100-00-00_N034	-1428.4	2PCT_50yr	56292.00	-12.77	30.35	7.69	31.11	0.000406	7.03	9139.28	530.25	0.22
E100-00-00_N034	-1428.4	1PCT_100yr	64016.00	-12.77	32.90	9.01	33.72	0.000397	7.32	10671.73	766.21	0.22
E100-00-00_N034	-1659.7	10PCT_10yr	39773.00	-14.06	23.78		24.33	0.000355	5.94	6762.81	386.77	0.20
E100-00-00_N034	-1659.7	2PCT_50yr	56292.00	-14.06	30.34		30.99	0.000342	6.56	11365.14	806.54	0.21
E100-00-00_N034	-1659.7	1PCT_100yr	64016.00	-14.06	32.90		33.60	0.000338	6.80	13584.12	971.86	0.21
E100-00-00_N034	-2814.3	10PCT_10yr	39920.00	-20.52	22.94	1.67	23.72	0.000670	7.08	6015.77	387.12	0.24
E100-00-00_N034	-2814.3	2PCT_50yr	56500.00	-20.52	29.44	5.35	30.39	0.000628	7.91	8575.35	396.12	0.24
E100-00-00_N034	-2814.3	1PCT_100yr	64270.00	-20.52	31.94	6.93	32.98	0.000630	8.32	9572.95	497.82	0.25
E100-00-00_N034	-2834.8		Bridge									
E100-00-00_N034	-2855.3	10PCT_10yr	39920.00	-20.19	22.76	2.00	23.57	0.000715	7.21	5830.77	341.74	0.25
E100-00-00_N034	-2855.3	2PCT_50yr	56500.00	-20.19	29.23	5.68	30.21	0.000665	8.06	8361.08	395.89	0.25
E100-00-00_N034	-2855.3	1PCT_100yr	64270.00	-20.19	31.71	7.26	32.79	0.000664	8.46	9347.15	399.17	0.25
E100-00-00_N034	-3399.7	10PCT_10yr	39920.00	-16.70	22.60	1.01	23.21	0.000344	6.28	6554.24	249.72	0.20
E100-00-00_N034	-3399.7	2PCT_50yr	56500.00	-16.70	29.05	4.71	29.86	0.000372	7.25	8244.43	274.37	0.22
E100-00-00_N034	-3399.7	1PCT_100yr	64270.00	-16.70	31.53	5.98	32.44	0.000387	7.68	8943.35	307.47	0.22

E115-04-00 Mitigated
HEC-RAS Output

HEC-RAS Plan: Mit No Culv River: E115-04-00 Reach: E115-04-00_0002

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
E115-04-00_0002	9296.9	10PCT_10yr	660.00	73.04	81.41	76.34	81.46	0.000229	1.71	623.74	1193.38	0.13
E115-04-00_0002	9296.9	2PCT_50yr	910.00	73.04	81.93	76.82	81.98	0.000231	1.82	1155.58	1382.43	0.13
E115-04-00_0002	9296.9	1PCT_100yr	1030.00	73.04	82.09	77.05	82.12	0.000201	1.73	1666.17	1400.51	0.12
E115-04-00_0002	9130.8	10PCT_10yr	660.00	73.91	81.41		81.42	0.000076	0.95	1644.36	1760.89	0.08
E115-04-00_0002	9130.8	2PCT_50yr	910.00	73.91	81.94		81.95	0.000062	0.91	2585.45	1789.97	0.07
E115-04-00_0002	9130.8	1PCT_100yr	1030.00	73.91	82.09		82.10	0.000063	0.94	2859.22	1804.19	0.07
E115-04-00_0002	9082.5	10PCT_10yr	750.00	73.87	81.39	77.03	81.41	0.000136	1.24	949.64	1770.02	0.10
E115-04-00_0002	9082.5	2PCT_50yr	1030.00	73.87	81.91	77.49	81.94	0.000150	1.40	1308.81	1849.44	0.11
E115-04-00_0002	9082.5	1PCT_100yr	1180.00	73.87	82.05	77.69	82.06	0.000205	1.66	1464.92	1864.90	0.12
E115-04-00_0002	9034.5		Bridge									
E115-04-00_0002	8986.5	10PCT_10yr	750.00	72.57	80.92	75.74	80.94	0.000103	1.18	780.51	1540.90	0.09
E115-04-00_0002	8986.5	2PCT_50yr	1030.00	72.57	81.53	76.19	81.56	0.000123	1.39	1056.89	1921.91	0.10
E115-04-00_0002	8986.5	1PCT_100yr	1180.00	72.57	81.77	76.39	81.80	0.000135	1.49	1173.48	1937.87	0.10
E115-04-00_0002	8884.5	10PCT_10yr	750.00	72.49	80.82	76.09	80.90	0.000515	2.44	443.95	596.46	0.19
E115-04-00_0002	8884.5	2PCT_50yr	1030.00	72.49	81.42	76.77	81.52	0.000555	2.72	609.01	922.31	0.20
E115-04-00_0002	8884.5	1PCT_100yr	1180.00	72.49	81.65	77.12	81.75	0.000609	2.92	680.06	1110.01	0.21
E115-04-00_0002	8142.3	10PCT_10yr	860.00	71.91	80.08	77.09	80.27	0.001460	3.48	257.05	301.39	0.31
E115-04-00_0002	8142.3	2PCT_50yr	1170.00	71.91	80.60	77.73	80.82	0.001638	3.93	417.46	917.24	0.33
E115-04-00_0002	8142.3	1PCT_100yr	1360.00	71.91	80.78	78.07	81.01	0.001685	4.07	545.37	1164.79	0.33
E115-04-00_0002	7164.1	10PCT_10yr	950.00	70.05	78.48	76.32	78.67	0.001787	3.78	437.01	586.59	0.33
E115-04-00_0002	7164.1	2PCT_50yr	1300.00	70.05	78.86	76.96	79.06	0.001900	4.14	661.62	818.57	0.35
E115-04-00_0002	7164.1	1PCT_100yr	1520.00	70.05	79.13	77.48	79.31	0.001698	4.07	875.50	1001.90	0.33
E115-04-00_0002	6517.3	10PCT_10yr	950.00	69.56	78.06	75.76	78.10	0.000463	2.31	1244.80	1071.51	0.18
E115-04-00_0002	6517.3	2PCT_50yr	1300.00	69.56	78.36	76.68	78.40	0.000562	2.64	1554.69	1305.72	0.20
E115-04-00_0002	6517.3	1PCT_100yr	1520.00	69.56	78.67	76.87	78.71	0.000508	2.60	1962.60	1564.85	0.19
E115-04-00_0002	6445.9	10PCT_10yr	1100.00	69.57	77.93	76.73	78.04	0.001289	3.67	872.20	907.82	0.28
E115-04-00_0002	6445.9	2PCT_50yr	1490.00	69.57	78.22	77.31	78.33	0.001432	4.01	1106.97	1004.39	0.30
E115-04-00_0002	6445.9	1PCT_100yr	1770.00	69.57	78.56	77.51	78.65	0.001165	3.76	1418.67	1130.74	0.27
E115-04-00_0002	6423.4		Bridge									
E115-04-00_0002	6400.9	10PCT_10yr	1100.00	69.57	77.77	76.85	77.90	0.001669	4.09	757.60	832.87	0.32
E115-04-00_0002	6400.9	2PCT_50yr	1490.00	69.57	78.18	77.31	78.29	0.001509	4.09	1082.36	991.69	0.31
E115-04-00_0002	6400.9	1PCT_100yr	1770.00	69.57	78.55	77.49	78.63	0.001188	3.79	1406.74	1118.46	0.28
E115-04-00_0002	6315.4	10PCT_10yr	1100.00	69.56	76.99	75.82	77.55	0.004763	6.42	223.16	274.84	0.54
E115-04-00_0002	6315.4	2PCT_50yr	1490.00	69.56	77.89	77.41	78.12	0.002076	4.81	672.90	1007.18	0.37
E115-04-00_0002	6315.4	1PCT_100yr	1770.00	69.56	78.38	77.66	78.51	0.001337	4.10	986.06	1082.92	0.30
E115-04-00_0002	6086.1	10PCT_10yr	1100.00	68.15	75.61		76.30	0.006324	6.68	165.41	52.51	0.62
E115-04-00_0002	6086.1	2PCT_50yr	1490.00	68.15	76.65		77.38	0.004949	6.91	239.80	94.42	0.57
E115-04-00_0002	6086.1	1PCT_100yr	1770.00	68.15	77.12		77.93	0.004913	7.34	296.30	200.22	0.57
E115-04-00_0002	5443.7	10PCT_10yr	1100.00	64.19	74.85	69.17	75.02	0.000804	3.27	344.17	80.97	0.24
E115-04-00_0002	5443.7	2PCT_50yr	1490.00	64.19	76.00	70.10	76.20	0.000770	3.60	525.84	287.40	0.24
E115-04-00_0002	5443.7	1PCT_100yr	1770.00	64.19	76.42	70.68	76.65	0.000854	3.93	685.03	636.49	0.25
E115-04-00_0002	5385.5	10PCT_10yr	1100.00	65.19	74.70	70.17	74.95	0.001386	4.03	273.12	49.65	0.30
E115-04-00_0002	5385.5	2PCT_50yr	1500.00	65.19	75.84	71.10	76.13	0.001445	4.37	422.56	278.60	0.32
E115-04-00_0002	5385.5	1PCT_100yr	1780.00	65.19	76.26	71.68	76.58	0.001495	4.65	583.33	522.53	0.32
E115-04-00_0002	5375.7	10PCT_10yr	1100.00	62.21	74.72	69.31	74.94	0.001217	3.73	294.81	50.06	0.27
E115-04-00_0002	5375.7	2PCT_50yr	1500.00	62.21	75.85	70.29	76.11	0.001308	4.11	444.97	290.21	0.29
E115-04-00_0002	5375.7	1PCT_100yr	1780.00	62.21	76.28	70.95	76.56	0.001375	4.40	604.53	533.21	0.30
E115-04-00_0002	5344.8	10PCT_10yr	1190.00	61.86	74.74	65.89	74.88	0.000346	2.98	403.21	99.98	0.18
E115-04-00_0002	5344.8	2PCT_50yr	1610.00	61.86	75.88	66.73	76.05	0.000377	3.40	586.89	366.73	0.20
E115-04-00_0002	5344.8	1PCT_100yr	1920.00	61.86	76.30	67.27	76.49	0.000410	3.65	841.41	501.60	0.21
E115-04-00_0002	5280.8		Culvert									
E115-04-00_0002	5216.8	10PCT_10yr	1190.00	61.64	74.59	65.67	74.73	0.000084	2.96	407.38	107.52	0.18
E115-04-00_0002	5216.8	2PCT_50yr	1610.00	61.64	75.52	66.51	75.72	0.000107	3.58	464.54	454.47	0.21
E115-04-00_0002	5216.8	1PCT_100yr	1920.00	61.64	75.86	67.05	76.10	0.000124	3.96	833.71	700.64	0.23
E115-04-00_0002	5200.3	10PCT_10yr	1190.00	61.62	74.48	69.84	74.70	0.000254	3.78	315.07	75.33	0.33
E115-04-00_0002	5200.3	2PCT_50yr	1610.00	61.62	75.44	70.88	75.70	0.000269	4.06	448.99	341.25	0.34
E115-04-00_0002	5200.3	1PCT_100yr	1920.00	61.62	75.77	71.57	76.07	0.000306	4.44	593.02	621.98	0.37
E115-04-00_0002	5076.5	10PCT_10yr	1190.00	61.93	74.56	68.45	74.64	0.000058	2.23	542.49	146.08	0.17
E115-04-00_0002	5076.5	2PCT_50yr	1610.00	61.93	75.54	69.34	75.64	0.000059	2.52	821.27	453.05	0.18

E115-04-00 Mitigated
HEC-RAS Output

HEC-RAS Plan: Mit No Culv River: E115-04-00 Reach: E115-04-00_0002 (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
E115-04-00_0002	5076.5	1PCT_100yr	1920.00	61.93	75.88	69.85	76.00	0.000069	2.82	990.14	632.12	0.19
E115-04-00_0002	4964.4	10PCT_10yr	1190.00	60.44	74.50	67.07	74.63	0.000094	2.99	412.94	108.06	0.20
E115-04-00_0002	4964.4	2PCT_50yr	1610.00	60.44	75.44	68.29	75.62	0.000106	3.46	731.92	498.38	0.22
E115-04-00_0002	4964.4	1PCT_100yr	1920.00	60.44	75.76	69.03	75.98	0.000127	3.89	887.69	561.25	0.24
E115-04-00_0002	4811.1	10PCT_10yr	1210.00	61.07	74.43	69.32	74.61	0.000198	3.41	354.93	82.78	0.29
E115-04-00_0002	4811.1	2PCT_50yr	1640.00	61.07	75.39	70.40	75.59	0.000220	3.64	589.57	424.82	0.31
E115-04-00_0002	4811.1	1PCT_100yr	1960.00	61.07	75.72	71.03	75.96	0.000238	3.98	736.65	627.31	0.33
E115-04-00_0002	4752.8	10PCT_10yr	1280.00	60.99	74.44	64.92	74.59	0.000063	3.10	432.74	108.11	0.15
E115-04-00_0002	4752.8	2PCT_50yr	1730.00	60.99	75.34	65.78	75.57	0.000090	3.87	545.97	283.60	0.18
E115-04-00_0002	4752.8	1PCT_100yr	2080.00	60.99	75.62	66.40	75.93	0.000119	4.50	661.90	320.04	0.21
E115-04-00_0002	4692.8		Culvert									
E115-04-00_0002	4632.8	10PCT_10yr	1280.00	61.10	74.27	65.03	74.42	0.000068	3.18	417.53	71.88	0.16
E115-04-00_0002	4632.8	2PCT_50yr	1730.00	61.10	75.05	65.88	75.29	0.000099	4.00	531.13	221.17	0.19
E115-04-00_0002	4632.8	1PCT_100yr	2080.00	61.10	75.25	66.51	75.59	0.000135	4.70	580.63	299.61	0.22
E115-04-00_0002	4611.6	10PCT_10yr	1280.00	61.07	74.17	69.53	74.40	0.000456	3.83	333.99	78.95	0.33
E115-04-00_0002	4611.6	2PCT_50yr	1730.00	61.07	75.00	70.58	75.28	0.000517	4.25	461.74	321.32	0.36
E115-04-00_0002	4611.6	1PCT_100yr	2080.00	61.07	75.23	71.44	75.58	0.000636	4.81	550.48	449.88	0.40
E115-04-00_0002	4449.0	10PCT_10yr	1280.00	60.44	74.23	64.79	74.34	0.000081	2.66	503.65	78.99	0.13
E115-04-00_0002	4449.0	2PCT_50yr	1730.00	60.44	75.04	65.56	75.21	0.000114	3.31	705.72	396.71	0.16
E115-04-00_0002	4449.0	1PCT_100yr	2080.00	60.44	75.27	66.09	75.50	0.000152	3.87	803.29	460.54	0.19
E115-04-00_0002	4333.8	10PCT_10yr	1280.00	60.57	74.13	69.03	74.31	0.000352	3.44	377.92	133.43	0.29
E115-04-00_0002	4333.8	2PCT_50yr	1730.00	60.57	74.97	70.11	75.18	0.000362	3.76	600.61	450.38	0.30
E115-04-00_0002	4333.8	1PCT_100yr	2080.00	60.57	75.20	70.94	75.46	0.000432	4.24	714.36	591.01	0.33
E115-04-00_0002	4273.1	10PCT_10yr	1280.00	60.46	74.13	65.15	74.29	0.000127	3.19	417.70	134.99	0.16
E115-04-00_0002	4273.1	2PCT_50yr	1740.00	60.46	74.95	66.02	75.17	0.000168	3.84	734.27	626.07	0.19
E115-04-00_0002	4273.1	1PCT_100yr	2090.00	60.46	75.17	66.64	75.45	0.000221	4.44	888.57	877.16	0.21
E115-04-00_0002	4213.1		Culvert									
E115-04-00_0002	4153.1	10PCT_10yr	1280.00	60.48	73.84	68.94	74.16	0.000318	4.55	321.33	379.76	0.28
E115-04-00_0002	4153.1	2PCT_50yr	1740.00	60.48	74.53	70.00	75.00	0.000440	5.65	358.09	718.09	0.34
E115-04-00_0002	4153.1	1PCT_100yr	2090.00	60.48	74.93	70.63	75.30	0.000380	5.41	1142.78	858.71	0.31
E115-04-00_0002	4104.3	10PCT_10yr	1280.00	60.44	73.95	64.80	74.03	0.000162	2.30	712.93	490.44	0.13
E115-04-00_0002	4104.3	2PCT_50yr	1740.00	60.44	74.70	65.57	74.80	0.000199	2.67	1243.14	921.43	0.14
E115-04-00_0002	4104.3	1PCT_100yr	2090.00	60.44	75.05	66.12	75.16	0.000232	2.94	1595.02	1191.36	0.15
E115-04-00_0002	3999.4	10PCT_10yr	1280.00	60.64	73.78	68.64	73.98	0.001036	3.69	446.26	349.39	0.28
E115-04-00_0002	3999.4	2PCT_50yr	1740.00	60.64	74.58	69.67	74.76	0.000924	3.75	914.13	784.88	0.27
E115-04-00_0002	3999.4	1PCT_100yr	2090.00	60.64	74.95	70.34	75.12	0.000872	3.79	1245.49	1017.58	0.26
E115-04-00_0002	3960.5	10PCT_10yr	1290.00	60.64	73.68	68.66	73.92	0.002459	3.92	328.78	486.84	0.30
E115-04-00_0002	3960.5	2PCT_50yr	1760.00	60.64	74.57	69.72	74.69	0.001505	3.35	1118.49	999.57	0.24
E115-04-00_0002	3960.5	1PCT_100yr	2100.00	60.64	74.95	70.37	75.05	0.001251	3.18	1525.42	1088.20	0.22
E115-04-00_0002	3925.5		Bridge									
E115-04-00_0002	3890.5	10PCT_10yr	1290.00	60.49	73.17	68.52	73.44	0.001282	4.19	320.48	740.32	0.32
E115-04-00_0002	3890.5	2PCT_50yr	1760.00	60.49	74.45	69.56	74.54	0.000549	2.95	1673.73	1233.91	0.21
E115-04-00_0002	3890.5	1PCT_100yr	2100.00	60.49	74.96	70.20	75.02	0.000408	2.68	2299.38	1268.75	0.18
E115-04-00_0002	3830.6	10PCT_10yr	1290.00	60.64	73.05	68.67	73.35	0.001287	4.43	305.76	93.24	0.32
E115-04-00_0002	3830.6	2PCT_50yr	1760.00	60.64	74.08	69.71	74.42	0.001359	4.83	603.98	710.69	0.34
E115-04-00_0002	3830.6	1PCT_100yr	2100.00	60.64	74.67	70.35	74.92	0.001055	4.51	1110.89	1042.36	0.30
E115-04-00_0002	3255.3	10PCT_10yr	1290.00	59.68	72.39	68.18	72.62	0.001176	4.09	496.18	269.91	0.30
E115-04-00_0002	3255.3	2PCT_50yr	1800.00	59.68	73.57	69.34	73.73	0.000917	3.79	1070.53	676.66	0.27
E115-04-00_0002	3255.3	1PCT_100yr	2120.00	59.68	74.28	69.99	74.40	0.000688	3.45	1645.66	933.36	0.24
E115-04-00_0002	2039.4	10PCT_10yr	1300.00	58.27	70.42	66.78	70.82	0.001963	5.06	256.72	53.26	0.39
E115-04-00_0002	2039.4	2PCT_50yr	1820.00	58.27	71.60	67.99	72.10	0.002189	5.69	332.46	244.74	0.42
E115-04-00_0002	2039.4	1PCT_100yr	2130.00	58.27	72.98	68.58	73.32	0.001313	4.86	633.96	804.00	0.33
E115-04-00_0002	1979.40	10PCT_10yr	1300.00	58.20	70.41		70.69	0.001276	4.26	329.52	138.98	0.36
E115-04-00_0002	1979.40	2PCT_50yr	1820.00	58.20	71.67		71.94	0.001097	4.30	563.29	283.85	0.34
E115-04-00_0002	1979.40	1PCT_100yr	2130.00	58.20	73.06		73.21	0.000503	3.44	1343.69	853.15	0.24
E115-04-00_0002	1722.40	10PCT_10yr	1300.00	58.10	70.22		70.38	0.000931	3.23	442.98	153.13	0.27
E115-04-00_0002	1722.40	2PCT_50yr	1820.00	58.10	71.52		71.68	0.000766	3.31	718.32	283.78	0.25
E115-04-00_0002	1722.40	1PCT_100yr	2130.00	58.10	73.00		73.09	0.000371	2.69	1452.39	764.51	0.18

E115-04-00 Mitigated
HEC-RAS Output

HEC-RAS Plan: Mit No Culv River: E115-04-00 Reach: E115-04-00_0002 (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
E115-04-00_0002	1672.40	10PCT_10yr	1300.00	57.90	70.13		70.32	0.001086	3.49	385.86	126.36	0.29
E115-04-00_0002	1672.40	2PCT_50yr	1820.00	57.90	71.44		71.63	0.001022	3.56	601.21	235.84	0.28
E115-04-00_0002	1672.40	1PCT_100yr	2130.00	57.90	72.98		73.08	0.000442	2.78	1381.11	791.80	0.19
E115-04-00_0002	1367.1	10PCT_10yr	1300.00	57.88	69.73		69.96	0.001263	3.86	339.85	70.63	0.30
E115-04-00_0002	1367.1	2PCT_50yr	1820.00	57.88	71.01		71.29	0.001147	4.27	483.41	218.88	0.30
E115-04-00_0002	1367.1	1PCT_100yr	2130.00	57.88	72.83		72.94	0.000421	3.05	1652.82	1066.82	0.19
E115-04-00_0002	1309.6	10PCT_10yr	1305.00	57.89	69.56	65.25	69.86	0.001359	4.39	299.40	72.53	0.34
E115-04-00_0002	1309.6	2PCT_50yr	1863.00	57.89	70.86	66.49	71.20	0.001513	4.72	522.84	418.80	0.35
E115-04-00_0002	1309.6	1PCT_100yr	2148.00	57.89	72.83	67.04	72.90	0.000352	2.72	2110.40	1125.06	0.18
E115-04-00_0002	1283.1		Bridge									
E115-04-00_0002	1256.6	10PCT_10yr	1305.00	57.89	68.75	65.25	69.16	0.001879	5.15	253.46	49.82	0.40
E115-04-00_0002	1256.6	2PCT_50yr	1863.00	57.89	70.10	66.47	70.59	0.002255	5.62	352.19	124.31	0.43
E115-04-00_0002	1256.6	1PCT_100yr	2148.00	57.89	70.71	67.03	71.19	0.002201	5.67	468.14	309.08	0.42
E115-04-00_0002	1211.6	10PCT_10yr	1305.00	57.88	68.66		69.07	0.001803	5.19	251.34	48.78	0.40
E115-04-00_0002	1211.6	2PCT_50yr	1863.00	57.88	69.95		70.48	0.001868	5.87	324.57	83.81	0.41
E115-04-00_0002	1211.6	1PCT_100yr	2148.00	57.88	70.51		71.08	0.001824	6.14	404.38	286.46	0.41
E115-04-00_0002	224.0	10PCT_10yr	1305.00	56.11	66.80	63.68	67.18	0.002001	4.97	262.43	56.45	0.41
E115-04-00_0002	224.0	2PCT_50yr	1863.00	56.11	68.08	64.93	68.55	0.002001	5.54	336.57	59.81	0.41
E115-04-00_0002	224.0	1PCT_100yr	2148.00	56.11	68.66	65.43	69.18	0.002002	5.77	372.16	61.36	0.41

E115-04-00 Revised Existing
HEC-RAS Output

HEC-RAS Plan: Rev Ext River: E115-04-00 Reach: E115-04-00_0002

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
E115-04-00_0002	9296.9	10PCT_10yr	670.00	73.04	81.46	76.36	81.51	0.000223	1.69	672.49	1279.88	0.13
E115-04-00_0002	9296.9	2PCT_50yr	940.00	73.04	82.09	76.88	82.12	0.000164	1.56	1733.58	1506.60	0.11
E115-04-00_0002	9296.9	1PCT_100yr	1080.00	73.04	82.16	77.14	82.19	0.000196	1.72	1838.45	1519.66	0.12
E115-04-00_0002	9130.8	10PCT_10yr	670.00	73.91	81.46		81.47	0.000057	0.83	1991.92	1934.21	0.07
E115-04-00_0002	9130.8	2PCT_50yr	940.00	73.91	82.09		82.10	0.000041	0.76	3222.68	1961.52	0.06
E115-04-00_0002	9130.8	1PCT_100yr	1080.00	73.91	82.16		82.17	0.000049	0.83	3358.76	1964.02	0.06
E115-04-00_0002	9082.5	10PCT_10yr	770.00	73.87	81.44	77.06	81.46	0.000137	1.25	983.83	1950.78	0.10
E115-04-00_0002	9082.5	2PCT_50yr	1090.00	73.87	82.05	77.57	82.06	0.000174	1.53	1475.43	1981.13	0.11
E115-04-00_0002	9082.5	1PCT_100yr	1240.00	73.87	82.12	77.76	82.12	0.000207	1.68	1596.87	1984.21	0.12
E115-04-00_0002	9034.5		Bridge									
E115-04-00_0002	8986.5	10PCT_10yr	770.00	72.57	80.99	75.77	81.01	0.000103	1.19	808.01	1655.73	0.09
E115-04-00_0002	8986.5	2PCT_50yr	1090.00	72.57	81.65	76.27	81.68	0.000126	1.42	1114.33	1961.28	0.10
E115-04-00_0002	8986.5	1PCT_100yr	1240.00	72.57	81.85	76.46	81.88	0.000141	1.53	1212.85	1971.15	0.10
E115-04-00_0002	8884.5	10PCT_10yr	770.00	72.49	80.89	76.14	80.97	0.000509	2.44	461.65	729.04	0.18
E115-04-00_0002	8884.5	2PCT_50yr	1090.00	72.49	81.54	76.92	81.63	0.000569	2.79	643.31	1112.65	0.20
E115-04-00_0002	8884.5	1PCT_100yr	1240.00	72.49	81.73	77.25	81.83	0.000628	2.99	706.22	1250.28	0.21
E115-04-00_0002	8142.3	10PCT_10yr	890.00	71.91	80.14	77.15	80.33	0.001484	3.54	266.24	410.28	0.31
E115-04-00_0002	8142.3	2PCT_50yr	1260.00	71.91	80.70	77.89	80.92	0.001651	3.99	482.72	1146.76	0.33
E115-04-00_0002	8142.3	1PCT_100yr	1440.00	71.91	80.85	78.21	81.07	0.001708	4.13	595.31	1307.96	0.34
E115-04-00_0002	7164.1	10PCT_10yr	990.00	70.05	78.55	76.41	78.73	0.001768	3.80	469.16	623.00	0.33
E115-04-00_0002	7164.1	2PCT_50yr	1420.00	70.05	79.03	77.27	79.21	0.001759	4.08	790.26	958.44	0.34
E115-04-00_0002	7164.1	1PCT_100yr	1610.00	70.05	79.22	78.08	79.39	0.001617	4.03	961.81	1044.01	0.33
E115-04-00_0002	6517.3	10PCT_10yr	990.00	69.56	78.14	75.95	78.17	0.000451	2.30	1297.25	1075.03	0.17
E115-04-00_0002	6517.3	2PCT_50yr	1420.00	69.56	78.54	76.83	78.59	0.000543	2.65	1768.73	1444.37	0.19
E115-04-00_0002	6517.3	1PCT_100yr	1610.00	69.56	78.78	76.97	78.82	0.000488	2.58	2106.00	1828.67	0.18
E115-04-00_0002	6445.9	10PCT_10yr	1160.00	69.57	78.01	76.81	78.11	0.001272	3.68	909.80	930.30	0.28
E115-04-00_0002	6445.9	2PCT_50yr	1660.00	69.57	78.42	77.43	78.52	0.001308	3.92	1263.46	1088.73	0.29
E115-04-00_0002	6445.9	1PCT_100yr	1870.00	69.57	78.68	77.57	78.77	0.001110	3.72	1522.02	1219.59	0.27
E115-04-00_0002	6423.4		Bridge									
E115-04-00_0002	6400.9	10PCT_10yr	1160.00	69.57	77.87	76.90	78.00	0.001628	4.09	806.67	845.32	0.32
E115-04-00_0002	6400.9	2PCT_50yr	1660.00	69.57	78.40	77.38	78.50	0.001359	3.99	1241.13	1076.56	0.29
E115-04-00_0002	6400.9	1PCT_100yr	1870.00	69.57	78.67	77.56	78.75	0.001138	3.76	1504.78	1211.31	0.27
E115-04-00_0002	6315.4	10PCT_10yr	1160.00	69.56	77.15	76.18	77.67	0.004313	6.26	260.49	394.15	0.52
E115-04-00_0002	6315.4	2PCT_50yr	1660.00	69.56	78.20	77.53	78.36	0.001564	4.34	867.43	1056.29	0.33
E115-04-00_0002	6315.4	1PCT_100yr	1870.00	69.56	78.52	77.70	78.64	0.001211	3.96	1079.06	1137.48	0.29
E115-04-00_0002	6086.1	10PCT_10yr	1160.00	68.15	75.83		76.51	0.005880	6.63	178.07	59.48	0.60
E115-04-00_0002	6086.1	2PCT_50yr	1660.00	68.15	76.95		77.72	0.004906	7.16	269.87	112.20	0.57
E115-04-00_0002	6086.1	1PCT_100yr	1870.00	68.15	77.22		78.08	0.005104	7.58	318.84	252.22	0.59
E115-04-00_0002	5443.7	10PCT_10yr	1160.00	64.19	75.12	69.32	75.29	0.000768	3.29	368.28	97.73	0.23
E115-04-00_0002	5443.7	2PCT_50yr	1660.00	64.19	76.27	70.46	76.48	0.000825	3.81	613.66	458.77	0.25
E115-04-00_0002	5443.7	1PCT_100yr	1870.00	64.19	76.49	70.88	76.73	0.000913	4.09	716.63	604.10	0.26
E115-04-00_0002	5385.5	10PCT_10yr	1160.00	65.19	74.97	70.32	75.22	0.001391	4.04	286.92	53.74	0.30
E115-04-00_0002	5385.5	2PCT_50yr	1670.00	65.19	76.10	71.46	76.41	0.001489	4.57	512.07	439.83	0.32
E115-04-00_0002	5385.5	1PCT_100yr	1880.00	65.19	76.31	71.88	76.65	0.001596	4.84	610.42	550.87	0.34
E115-04-00_0002	5375.7	10PCT_10yr	1160.00	62.21	74.99	69.46	75.21	0.001234	3.76	308.64	52.84	0.27
E115-04-00_0002	5375.7	2PCT_50yr	1670.00	62.21	76.12	70.71	76.39	0.001349	4.29	535.69	435.04	0.29
E115-04-00_0002	5375.7	1PCT_100yr	1880.00	62.21	76.33	71.17	76.64	0.001474	4.58	632.58	580.63	0.31
E115-04-00_0002	5344.8	10PCT_10yr	1260.00	61.86	75.01	66.03	75.15	0.000347	3.05	419.75	131.41	0.19
E115-04-00_0002	5344.8	2PCT_50yr	1810.00	61.86	76.14	67.09	76.33	0.000420	3.65	647.63	438.68	0.21
E115-04-00_0002	5344.8	1PCT_100yr	2030.00	61.86	76.36	67.46	76.56	0.000444	3.81	870.51	523.90	0.21
E115-04-00_0002	5280.8		Culvert									
E115-04-00_0002	5216.8	10PCT_10yr	1260.00	61.64	74.83	65.81	74.97	0.000086	3.04	422.14	137.09	0.18
E115-04-00_0002	5216.8	2PCT_50yr	1810.00	61.64	75.72	66.87	75.96	0.000126	3.94	477.54	620.18	0.23
E115-04-00_0002	5216.8	1PCT_100yr	2030.00	61.64	75.91	67.25	76.16	0.000136	4.15	865.15	763.33	0.24
E115-04-00_0002	5200.3	10PCT_10yr	1260.00	61.62	74.73	70.04	74.95	0.000248	3.77	334.43	79.04	0.32
E115-04-00_0002	5200.3	2PCT_50yr	1810.00	61.62	75.65	71.34	75.94	0.000296	4.33	533.41	565.87	0.36
E115-04-00_0002	5200.3	1PCT_100yr	2030.00	61.62	75.81	71.82	76.14	0.000331	4.65	612.38	665.15	0.38
E115-04-00_0002	5076.5	10PCT_10yr	1260.00	61.93	74.81	68.61	74.89	0.000056	2.25	584.98	197.72	0.17
E115-04-00_0002	5076.5	2PCT_50yr	1810.00	61.93	75.76	69.68	75.87	0.000066	2.72	926.66	594.04	0.19

E115-04-00 Revised Existing
HEC-RAS Output

HEC-RAS Plan: Rev Ext River: E115-04-00 Reach: E115-04-00_0002 (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
E115-04-00_0002	5076.5	1PCT_100yr	2030.00	61.93	75.93	70.03	76.06	0.000075	2.96	1015.45	720.17	0.20
E115-04-00_0002	4964.4	10PCT_10yr	1260.00	60.44	74.74	67.30	74.88	0.000093	3.05	451.38	238.90	0.20
E115-04-00_0002	4964.4	2PCT_50yr	1810.00	60.44	75.64	68.78	75.85	0.000120	3.75	830.36	564.93	0.23
E115-04-00_0002	4964.4	1PCT_100yr	2030.00	60.44	75.79	69.27	76.04	0.000139	4.09	904.66	607.38	0.25
E115-04-00_0002	4811.1	10PCT_10yr	1280.00	61.07	74.68	69.51	74.86	0.000193	3.40	380.19	121.77	0.29
E115-04-00_0002	4811.1	2PCT_50yr	1850.00	61.07	75.60	70.84	75.83	0.000233	3.88	679.52	484.65	0.32
E115-04-00_0002	4811.1	1PCT_100yr	2070.00	61.07	75.75	71.40	76.01	0.000258	4.17	754.25	659.93	0.34
E115-04-00_0002	4752.8	10PCT_10yr	1360.00	60.99	74.68	65.08	74.84	0.000067	3.22	448.74	157.75	0.16
E115-04-00_0002	4752.8	2PCT_50yr	1970.00	60.99	75.52	66.21	75.80	0.000110	4.30	635.18	334.40	0.20
E115-04-00_0002	4752.8	1PCT_100yr	2200.00	60.99	75.64	66.60	75.98	0.000132	4.75	666.22	406.60	0.22
E115-04-00_0002	4692.8		Culvert									
E115-04-00_0002	4632.8	10PCT_10yr	1360.00	61.10	74.48	65.19	74.65	0.000072	3.31	428.63	104.69	0.16
E115-04-00_0002	4632.8	2PCT_50yr	1970.00	61.10	75.16	66.32	75.47	0.000124	4.50	558.36	241.04	0.22
E115-04-00_0002	4632.8	1PCT_100yr	2200.00	61.10	75.24	66.71	75.62	0.000152	4.98	577.07	252.70	0.24
E115-04-00_0002	4611.6	10PCT_10yr	1360.00	61.07	74.40	69.72	74.63	0.000453	3.86	352.37	82.32	0.33
E115-04-00_0002	4611.6	2PCT_50yr	1970.00	61.07	75.12	71.09	75.46	0.000617	4.69	506.10	457.58	0.39
E115-04-00_0002	4611.6	1PCT_100yr	2200.00	61.07	75.20	71.76	75.60	0.000725	5.12	540.37	511.92	0.42
E115-04-00_0002	4449.0	10PCT_10yr	1360.00	60.44	74.45	64.93	74.57	0.000085	2.77	524.78	132.03	0.14
E115-04-00_0002	4449.0	2PCT_50yr	1970.00	60.44	75.17	65.92	75.38	0.000141	3.71	771.22	457.23	0.18
E115-04-00_0002	4449.0	1PCT_100yr	2200.00	60.44	75.26	66.27	75.51	0.000171	4.09	813.04	494.39	0.20
E115-04-00_0002	4333.8	10PCT_10yr	1360.00	60.57	74.37	69.23	74.55	0.000329	3.37	492.35	243.62	0.28
E115-04-00_0002	4333.8	2PCT_50yr	1970.00	60.57	75.11	70.59	75.35	0.000396	4.01	782.53	569.91	0.32
E115-04-00_0002	4333.8	1PCT_100yr	2200.00	60.57	75.20	71.26	75.48	0.000458	4.36	835.55	658.19	0.34
E115-04-00_0002	4273.1	10PCT_10yr	1370.00	60.46	74.36	65.32	74.53	0.000135	3.33	431.28	236.13	0.16
E115-04-00_0002	4273.1	2PCT_50yr	1980.00	60.46	75.09	66.45	75.34	0.000196	4.16	932.68	747.36	0.20
E115-04-00_0002	4273.1	1PCT_100yr	2220.00	60.46	75.15	66.85	75.45	0.000245	4.67	975.69	903.03	0.22
E115-04-00_0002	4213.1		Culvert									
E115-04-00_0002	4153.1	10PCT_10yr	1370.00	60.48	74.05	69.15	74.38	0.000333	4.74	332.21	495.59	0.29
E115-04-00_0002	4153.1	2PCT_50yr	1980.00	60.48	74.61	70.44	75.21	0.000552	6.37	362.37	791.64	0.38
E115-04-00_0002	4153.1	1PCT_100yr	2220.00	60.48	74.94	70.85	75.32	0.000410	5.62	1237.48	917.29	0.33
E115-04-00_0002	4104.3	10PCT_10yr	1370.00	60.44	74.16	64.96	74.24	0.000161	2.33	922.98	671.49	0.13
E115-04-00_0002	4104.3	2PCT_50yr	1980.00	60.44	74.84	65.95	74.95	0.000222	2.85	1498.07	1032.82	0.15
E115-04-00_0002	4104.3	1PCT_100yr	2220.00	60.44	75.06	66.31	75.18	0.000246	3.03	1748.14	1252.30	0.16
E115-04-00_0002	3999.4	10PCT_10yr	1370.00	60.64	74.03	68.87	74.20	0.000921	3.52	643.55	586.41	0.26
E115-04-00_0002	3999.4	2PCT_50yr	1980.00	60.64	74.74	70.13	74.90	0.000900	3.76	1169.51	925.02	0.27
E115-04-00_0002	3999.4	1PCT_100yr	2220.00	60.64	74.98	70.57	75.14	0.000854	3.76	1413.99	1094.95	0.26
E115-04-00_0002	3960.5	10PCT_10yr	1390.00	60.64	74.00	68.92	74.14	0.001679	3.32	751.17	730.99	0.25
E115-04-00_0002	3960.5	2PCT_50yr	2000.00	60.64	74.74	70.19	74.83	0.001334	3.21	1429.91	1112.09	0.23
E115-04-00_0002	3960.5	1PCT_100yr	2250.00	60.64	74.98	70.63	75.07	0.001194	3.12	1709.96	1146.81	0.22
E115-04-00_0002	3925.5		Bridge									
E115-04-00_0002	3890.5	10PCT_10yr	1390.00	60.49	73.70	68.76	73.89	0.000989	3.72	671.79	948.14	0.28
E115-04-00_0002	3890.5	2PCT_50yr	2000.00	60.49	74.71	70.02	74.81	0.000597	3.16	1833.03	1295.82	0.22
E115-04-00_0002	3890.5	1PCT_100yr	2250.00	60.49	74.96	70.45	75.05	0.000540	3.09	2161.30	1319.38	0.21
E115-04-00_0002	3830.6	10PCT_10yr	1390.00	60.64	73.56	68.92	73.82	0.001077	4.17	447.03	277.56	0.30
E115-04-00_0002	3830.6	2PCT_50yr	2000.00	60.64	74.43	70.17	74.70	0.001154	4.61	1000.94	1060.56	0.31
E115-04-00_0002	3830.6	1PCT_100yr	2250.00	60.64	74.71	70.60	74.96	0.001047	4.51	1274.77	1093.14	0.30
E115-04-00_0002	3255.3	10PCT_10yr	1420.00	59.68	72.88	68.50	73.15	0.001278	4.34	549.25	514.33	0.32
E115-04-00_0002	3255.3	2PCT_50yr	2030.00	59.68	73.85	69.82	74.05	0.001077	4.19	1197.47	834.35	0.29
E115-04-00_0002	3255.3	1PCT_100yr	2310.00	59.68	74.18	70.35	74.36	0.000993	4.12	1499.18	965.28	0.28
E115-04-00_0002	2039.4	10PCT_10yr	1440.00	58.27	70.97	67.13	71.34	0.001774	4.93	341.58	185.45	0.37
E115-04-00_0002	2039.4	2PCT_50yr	2050.00	58.27	71.81	68.43	72.29	0.002182	5.78	482.88	381.44	0.42
E115-04-00_0002	2039.4	1PCT_100yr	2340.00	58.27	72.07	68.94	72.62	0.002422	6.21	548.35	454.65	0.44
E115-04-00_0002	1979.40	10PCT_10yr	1440.00	58.20	71.00		71.21	0.000990	3.87	519.41	251.72	0.32
E115-04-00_0002	1979.40	2PCT_50yr	2050.00	58.20	71.88		72.13	0.001039	4.30	797.68	410.28	0.34
E115-04-00_0002	1979.40	1PCT_100yr	2340.00	58.20	72.18		72.44	0.001041	4.47	938.70	537.18	0.34
E115-04-00_0002	1722.40	10PCT_10yr	1440.00	58.10	70.83		70.97	0.000754	3.04	590.77	280.11	0.24
E115-04-00_0002	1722.40	2PCT_50yr	2050.00	58.10	71.71		71.87	0.000791	3.43	899.19	415.28	0.25
E115-04-00_0002	1722.40	1PCT_100yr	2340.00	58.10	72.00		72.18	0.000827	3.62	1028.18	520.38	0.26

E115-04-00 Revised Existing
HEC-RAS Output

HEC-RAS Plan: Rev Ext River: E115-04-00 Reach: E115-04-00_0002 (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
E115-04-00_0002	1672.40	10PCT_10yr	1440.00	57.90	70.76		70.92	0.001000	3.30	503.99	223.20	0.28
E115-04-00_0002	1672.40	2PCT_50yr	2050.00	57.90	71.62		71.82	0.001088	3.75	759.28	418.34	0.29
E115-04-00_0002	1672.40	1PCT_100yr	2340.00	57.90	71.91		72.12	0.001122	3.93	882.37	445.98	0.30
E115-04-00_0002	1367.1	10PCT_10yr	1440.00	57.88	70.39		70.61	0.001026	3.77	402.05	119.23	0.27
E115-04-00_0002	1367.1	2PCT_50yr	2050.00	57.88	71.13		71.45	0.001316	4.62	574.39	339.60	0.32
E115-04-00_0002	1367.1	1PCT_100yr	2340.00	57.88	71.35		71.72	0.001485	5.02	658.55	451.62	0.34
E115-04-00_0002	1309.6	10PCT_10yr	1471.00	57.89	70.24	65.66	70.52	0.001307	4.30	384.57	181.03	0.33
E115-04-00_0002	1309.6	2PCT_50yr	2088.00	57.89	70.98	66.93	71.35	0.001706	5.03	632.81	569.85	0.37
E115-04-00_0002	1309.6	1PCT_100yr	2405.00	57.89	71.20	67.45	71.61	0.001894	5.40	768.43	663.99	0.39
E115-04-00_0002	1283.1		Bridge									
E115-04-00_0002	1256.6	10PCT_10yr	1471.00	57.89	69.18	65.65	69.62	0.002056	5.32	276.43	54.55	0.42
E115-04-00_0002	1256.6	2PCT_50yr	2088.00	57.89	70.56	66.92	71.04	0.002220	5.66	458.53	280.15	0.43
E115-04-00_0002	1256.6	1PCT_100yr	2405.00	57.89	71.15	67.45	71.57	0.001978	5.49	735.82	643.56	0.40
E115-04-00_0002	1211.6	10PCT_10yr	1471.00	57.88	69.08		69.53	0.001854	5.41	272.99	54.20	0.41
E115-04-00_0002	1211.6	2PCT_50yr	2088.00	57.88	70.39		70.93	0.001790	6.01	437.16	282.10	0.41
E115-04-00_0002	1211.6	1PCT_100yr	2405.00	57.88	70.95		71.46	0.001601	6.00	699.29	636.28	0.39
E115-04-00_0002	224.0	10PCT_10yr	1471.00	56.11	67.20	64.12	67.61	0.002000	5.16	285.23	57.50	0.41
E115-04-00_0002	224.0	2PCT_50yr	2088.00	56.11	68.54	65.31	69.05	0.002001	5.72	364.80	61.04	0.41
E115-04-00_0002	224.0	1PCT_100yr	2405.00	56.11	69.16	65.81	69.71	0.002001	5.96	423.72	256.54	0.41

E115-00-00 Mitigated
HEC-RAS Output

HEC-RAS Plan: Mitigated River: E115-00-00 Reach: E115-00-00_0008

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
E115-00-00_0008	32382.3	10PCT_10yr	840.00	83.86	95.83	91.24	96.01	0.000849	3.49	340.01	846.92	0.27
E115-00-00_0008	32382.3	2PCT_50yr	1000.00	83.86	96.16	91.80	96.36	0.000951	3.77	409.73	895.92	0.28
E115-00-00_0008	32382.3	1PCT_100yr	1100.00	83.86	96.59	92.08	96.77	0.000829	3.65	685.85	1517.90	0.27
E115-00-00_0008	32282.3	10PCT_10yr	840.00	83.41	95.84	90.77	95.89	0.000316	2.20	1019.20	1304.15	0.16
E115-00-00_0008	32282.3	2PCT_50yr	1000.00	83.41	96.18	91.32	96.23	0.000301	2.21	1262.04	1556.47	0.16
E115-00-00_0008	32282.3	1PCT_100yr	1100.00	83.41	96.62	91.63	96.66	0.000231	2.03	1643.49	2038.34	0.14
E115-00-00_0008	32267.5		Bridge									
E115-00-00_0008	32234.4	10PCT_10yr	840.00	83.03	95.81	90.39	95.84	0.000211	1.85	1266.64	1562.17	0.14
E115-00-00_0008	32234.4	2PCT_50yr	1000.00	83.03	96.17	90.96	96.20	0.000211	1.92	1573.83	2011.08	0.14
E115-00-00_0008	32234.4	1PCT_100yr	1100.00	83.03	96.50	91.27	96.53	0.000168	1.78	1873.79	2210.07	0.12
E115-00-00_0008	32088.3	10PCT_10yr	840.00	82.36	95.69	89.82	95.78	0.000452	2.65	685.67	1163.77	0.19
E115-00-00_0008	32088.3	2PCT_50yr	1000.00	82.36	96.05	90.42	96.14	0.000460	2.71	866.63	1391.79	0.20
E115-00-00_0008	32088.3	1PCT_100yr	1100.00	82.36	96.39	90.76	96.47	0.000435	2.67	1086.40	1742.52	0.19
E115-00-00_0008	31967.0	10PCT_10yr	900.00	82.36	95.72	85.75	95.75	0.000013	1.43	1956.64	1935.77	0.08
E115-00-00_0008	31967.0	2PCT_50yr	1080.00	82.36	96.08	86.15	96.11	0.000016	1.59	2250.75	2269.73	0.09
E115-00-00_0008	31967.0	1PCT_100yr	1200.00	82.36	96.41	86.42	96.45	0.000016	1.65	2543.45	2447.25	0.09
E115-00-00_0008	31888.1		Culvert									
E115-00-00_0008	31836.0	10PCT_10yr	900.00	82.20	95.72	85.59	95.74	0.000012	1.42	1963.10	1939.20	0.08
E115-00-00_0008	31836.0	2PCT_50yr	1080.00	82.20	96.07	85.99	96.10	0.000015	1.58	2257.52	2270.40	0.09
E115-00-00_0008	31836.0	1PCT_100yr	1200.00	82.20	96.41	86.26	96.44	0.000016	1.64	2550.83	2450.06	0.09
E115-00-00_0008	31683.4	10PCT_10yr	900.00	82.55	95.66	88.28	95.73	0.000214	2.20	875.11	2307.86	0.14
E115-00-00_0008	31683.4	2PCT_50yr	1080.00	82.55	96.02	88.75	96.09	0.000229	2.30	1196.75	2914.23	0.15
E115-00-00_0008	31683.4	1PCT_100yr	1200.00	82.55	96.38	89.06	96.43	0.000197	2.17	1519.54	3133.18	0.14
E115-00-00_0008	31559.8	10PCT_10yr	980.00	82.84	95.44	90.89	95.63	0.000880	3.77	527.47	2350.48	0.27
E115-00-00_0008	31559.8	2PCT_50yr	1200.00	82.84	95.82	91.56	95.99	0.000843	3.84	811.19	2952.18	0.26
E115-00-00_0008	31559.8	1PCT_100yr	1350.00	82.84	96.25	91.97	96.37	0.000614	3.41	1191.87	3474.31	0.23
E115-00-00_0008	31545.6		Bridge									
E115-00-00_0008	31512.4	10PCT_10yr	980.00	82.84	95.33	90.89	95.63	0.001200	4.34	232.16	2237.20	0.31
E115-00-00_0008	31512.4	2PCT_50yr	1200.00	82.84	95.80	91.57	95.98	0.000866	3.88	792.38	2889.83	0.27
E115-00-00_0008	31512.4	1PCT_100yr	1350.00	82.84	96.01	91.98	96.19	0.000855	3.94	979.97	3223.55	0.27
E115-00-00_0008	31413.3	10PCT_10yr	980.00	82.87	95.21	91.39	95.50	0.001316	4.46	323.55	1979.25	0.33
E115-00-00_0008	31413.3	2PCT_50yr	1200.00	82.87	95.46	92.00	95.82	0.001571	5.01	435.10	2356.29	0.36
E115-00-00_0008	31413.3	1PCT_100yr	1350.00	82.87	95.69	92.42	96.03	0.001544	5.10	580.21	2793.30	0.36
E115-00-00_0008	31303.0	10PCT_10yr	980.00	82.91	95.00	91.42	95.34	0.001545	4.72	297.18	2382.67	0.35
E115-00-00_0008	31303.0	2PCT_50yr	1200.00	82.91	95.28	92.06	95.64	0.001668	5.07	493.93	2661.82	0.37
E115-00-00_0008	31303.0	1PCT_100yr	1350.00	82.91	95.54	92.46	95.85	0.001469	4.90	703.82	3446.68	0.35
E115-00-00_0008	31210.3	10PCT_10yr	1000.00	82.94	94.86	91.02	95.18	0.001537	4.69	289.16	2036.53	0.35
E115-00-00_0008	31210.3	2PCT_50yr	1220.00	82.94	95.06	91.73	95.45	0.001878	5.31	416.29	2454.18	0.39
E115-00-00_0008	31210.3	1PCT_100yr	1370.00	82.94	95.40	92.15	95.70	0.001491	4.92	695.80	2832.06	0.35
E115-00-00_0008	31186.8		Bridge									
E115-00-00_0008	31163.3	10PCT_10yr	1000.00	82.74	94.70	90.82	95.05	0.001587	4.79	214.78	1727.92	0.36
E115-00-00_0008	31163.3	2PCT_50yr	1220.00	82.74	95.08	91.54	95.45	0.001643	5.09	439.95	2469.16	0.37
E115-00-00_0008	31163.3	1PCT_100yr	1370.00	82.74	95.40	91.95	95.69	0.001368	4.81	700.34	2825.38	0.34
E115-00-00_0008	31058.5	10PCT_10yr	1000.00	82.89	94.65	90.17	94.86	0.000820	3.78	358.92	2042.07	0.27
E115-00-00_0008	31058.5	2PCT_50yr	1220.00	82.89	95.01	90.76	95.26	0.000918	4.16	522.44	2854.55	0.29
E115-00-00_0008	31058.5	1PCT_100yr	1370.00	82.89	95.33	91.17	95.54	0.000825	4.07	806.51	3288.51	0.28
E115-00-00_0008	30876.1	10PCT_10yr	1000.00	83.16	94.65	89.22	94.71	0.000440	2.19	855.13	2532.34	0.17
E115-00-00_0008	30876.1	2PCT_50yr	1220.00	83.16	95.03	89.73	95.09	0.000448	2.23	1105.09	2806.25	0.17
E115-00-00_0008	30876.1	1PCT_100yr	1370.00	83.16	95.34	90.06	95.39	0.000420	2.19	1317.93	3283.61	0.17
E115-00-00_0008	30772.2	10PCT_10yr	1070.00	83.31	94.59	89.00	94.66	0.000411	2.31	793.96	2261.99	0.17
E115-00-00_0008	30772.2	2PCT_50yr	1280.00	83.31	94.97	89.41	95.04	0.000424	2.41	991.65	2701.66	0.17
E115-00-00_0008	30772.2	1PCT_100yr	1450.00	83.31	95.26	89.73	95.34	0.000419	2.46	1156.14	2898.04	0.17
E115-00-00_0008	30744.2		Bridge									
E115-00-00_0008	30716.2	10PCT_10yr	1070.00	83.31	94.48	89.00	94.56	0.000447	2.40	733.58	2071.91	0.18
E115-00-00_0008	30716.2	2PCT_50yr	1280.00	83.31	94.86	89.42	94.94	0.000472	2.52	916.35	2593.10	0.18
E115-00-00_0008	30716.2	1PCT_100yr	1450.00	83.31	95.15	89.73	95.23	0.000468	2.58	1071.72	2819.71	0.18
E115-00-00_0008	30620.	10PCT_10yr	1070.00	83.17	94.43	88.89	94.51	0.000537	2.40	590.03	1532.50	0.19
E115-00-00_0008	30620.	2PCT_50yr	1280.00	83.17	94.80	89.31	94.89	0.000612	2.58	693.35	1787.35	0.20

E115-00-00 Mitigated
HEC-RAS Output

HEC-RAS Plan: Mitigated River: E115-00-00 Reach: E115-00-00_0008 (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
E115-00-00_0008	30620.	1PCT_100yr	1450.00	83.17	95.07	89.63	95.17	0.000696	2.77	800.37	2007.82	0.22
E115-00-00_0008	29947.0	10PCT_10yr	1070.00	82.22	94.10	87.60	94.19	0.000407	2.52	548.63	1492.33	0.17
E115-00-00_0008	29947.0	2PCT_50yr	1280.00	82.22	94.41	88.07	94.52	0.000477	2.80	665.26	1894.26	0.19
E115-00-00_0008	29947.0	1PCT_100yr	1450.00	82.22	94.61	88.42	94.75	0.000567	3.10	754.64	2263.94	0.20
E115-00-00_0008	29455.4	10PCT_10yr	1070.00	82.14	93.95	88.23	94.00	0.000346	2.12	1202.54	4529.71	0.15
E115-00-00_0008	29455.4	2PCT_50yr	1280.00	82.14	94.27	88.76	94.31	0.000316	2.08	1529.47	4656.44	0.15
E115-00-00_0008	29455.4	1PCT_100yr	1450.00	82.14	94.47	89.14	94.51	0.000309	2.09	1737.50	4732.54	0.15
E115-00-00_0008	29360.2	10PCT_10yr	1110.00	82.12	93.93	88.45	93.96	0.000241	1.73	1718.43	4219.43	0.13
E115-00-00_0008	29360.2	2PCT_50yr	1320.00	82.12	94.25	88.97	94.28	0.000234	1.75	2052.44	4585.85	0.13
E115-00-00_0008	29360.2	1PCT_100yr	1500.00	82.12	94.45	89.38	94.48	0.000241	1.81	2275.03	4658.38	0.13
E115-00-00_0008	29314.2		Bridge									
E115-00-00_0008	29268.2	10PCT_10yr	1110.00	82.12	93.62	88.45	93.66	0.000338	2.00	1484.67	3322.48	0.15
E115-00-00_0008	29268.2	2PCT_50yr	1320.00	82.12	94.03	88.97	94.06	0.000280	1.88	1910.72	4432.43	0.14
E115-00-00_0008	29268.2	1PCT_100yr	1500.00	82.12	94.26	89.37	94.29	0.000279	1.91	2154.82	4587.74	0.14
E115-00-00_0008	29137.9	10PCT_10yr	1110.00	82.04	93.46	88.38	93.56	0.000930	2.89	747.48	3184.42	0.20
E115-00-00_0008	29137.9	2PCT_50yr	1320.00	82.04	93.92	88.88	93.99	0.000750	2.68	1122.09	4169.12	0.18
E115-00-00_0008	29137.9	1PCT_100yr	1500.00	82.04	94.15	89.27	94.22	0.000719	2.68	1350.25	4547.27	0.18
E115-00-00_0008	28685.1	10PCT_10yr	1110.00	81.76	92.78	88.09	92.99	0.001745	3.78	420.97	2324.45	0.27
E115-00-00_0008	28685.1	2PCT_50yr	1320.00	81.76	93.43	88.61	93.56	0.001207	3.33	960.12	4141.48	0.23
E115-00-00_0008	28685.1	1PCT_100yr	1500.00	81.76	93.78	89.01	93.86	0.000861	2.92	1448.97	4433.46	0.20
E115-00-00_0008	28586.7	10PCT_10yr	1140.00	81.70	92.66	88.11	92.85	0.001057	3.69	673.34	3486.38	0.26
E115-00-00_0008	28586.7	2PCT_50yr	1350.00	81.70	93.38	88.61	93.46	0.000562	2.84	1443.47	4136.52	0.20
E115-00-00_0008	28586.7	1PCT_100yr	1530.00	81.70	93.73	89.01	93.79	0.000440	2.60	1896.68	4405.99	0.17
E115-00-00_0008	28566.0		Bridge									
E115-00-00_0008	28545.6	10PCT_10yr	1140.00	81.66	92.33	88.07	92.58	0.001445	4.21	432.33	2861.03	0.31
E115-00-00_0008	28545.6	2PCT_50yr	1350.00	81.66	93.22	88.57	93.32	0.000676	3.09	1281.24	4043.15	0.21
E115-00-00_0008	28545.6	1PCT_100yr	1530.00	81.66	93.66	88.97	93.72	0.000470	2.67	1824.54	4368.08	0.18
E115-00-00_0008	28447.5	10PCT_10yr	1140.00	81.52	92.18	87.99	92.43	0.001458	4.22	409.67	1930.54	0.31
E115-00-00_0008	28447.5	2PCT_50yr	1350.00	81.52	93.08	88.50	93.23	0.000866	3.49	943.86	3492.17	0.24
E115-00-00_0008	28447.5	1PCT_100yr	1530.00	81.52	93.56	88.90	93.66	0.000629	3.11	1508.82	4417.61	0.21
E115-00-00_0008	28126.	10PCT_10yr	1140.00	81.07	91.54	87.74	91.89	0.001961	4.77	261.67	2132.03	0.35
E115-00-00_0008	28126.	2PCT_50yr	1350.00	81.07	92.65	88.25	92.89	0.001281	4.19	608.11	4499.34	0.29
E115-00-00_0008	28126.	1PCT_100yr	1530.00	81.07	93.33	88.65	93.45	0.000706	3.33	1192.23	4916.08	0.22
E115-00-00_0008	28025.6	10PCT_10yr	1200.00	80.93	91.21	87.81	91.64	0.002493	5.28	227.27	1350.00	0.40
E115-00-00_0008	28025.6	2PCT_50yr	1400.00	80.93	92.52	88.28	92.75	0.001287	4.18	688.36	4381.03	0.29
E115-00-00_0008	28025.6	1PCT_100yr	1600.00	80.93	93.27	88.72	93.38	0.000689	3.29	1290.72	4866.36	0.22
E115-00-00_0008	28003.6		Bridge									
E115-00-00_0008	27981.6	10PCT_10yr	1200.00	80.93	90.70	87.81	91.23	0.005004	5.80	207.01	834.64	0.44
E115-00-00_0008	27981.6	2PCT_50yr	1400.00	80.93	91.50	88.28	92.03	0.004622	5.85	239.20	1874.33	0.43
E115-00-00_0008	27981.6	1PCT_100yr	1600.00	80.93	92.58	88.72	92.83	0.002268	4.47	725.15	4502.48	0.31
E115-00-00_0008	27878.3	10PCT_10yr	1200.00	80.89	90.28	87.07	90.72	0.004076	5.36	223.92	646.77	0.41
E115-00-00_0008	27878.3	2PCT_50yr	1400.00	80.89	91.11	87.54	91.56	0.003716	5.38	260.25	1320.69	0.40
E115-00-00_0008	27878.3	1PCT_100yr	1600.00	80.89	92.16	87.98	92.53	0.002833	5.01	403.14	3998.90	0.35
E115-00-00_0008	27792.7	10PCT_10yr	1200.00	80.86	90.07	86.46	90.45	0.002206	4.92	243.93	562.79	0.38
E115-00-00_0008	27792.7	2PCT_50yr	1400.00	80.86	90.93	86.94	91.30	0.002065	4.88	286.66	1430.97	0.37
E115-00-00_0008	27792.7	1PCT_100yr	1600.00	80.86	92.02	87.37	92.34	0.001573	4.51	410.68	3830.27	0.33
E115-00-00_0008	27694.0	10PCT_10yr	1200.00	80.77	90.07	85.64	90.36	0.000218	4.35	276.02	742.31	0.32
E115-00-00_0008	27694.0	2PCT_50yr	1400.00	80.77	90.92	86.09	91.22	0.000202	4.39	319.27	1353.38	0.31
E115-00-00_0008	27694.0	1PCT_100yr	1600.00	80.77	92.00	86.52	92.28	0.000168	4.23	379.14	3247.92	0.29
E115-00-00_0008	27634.0		Culvert									
E115-00-00_0008	27574.0	10PCT_10yr	1200.00	80.50	89.56	85.37	90.08	0.000232	5.75	208.53	668.91	0.35
E115-00-00_0008	27574.0	2PCT_50yr	1400.00	80.50	90.32	85.82	90.65	0.000234	4.64	301.88	1006.27	0.34
E115-00-00_0008	27574.0	1PCT_100yr	1600.00	80.50	91.09	86.25	91.43	0.000218	4.67	342.85	2037.53	0.33
E115-00-00_0008	27466.2	10PCT_10yr	1200.00	80.27	89.60	85.57	89.95	0.000725	4.77	251.78	138.34	0.35
E115-00-00_0008	27466.2	2PCT_50yr	1400.00	80.27	90.20	86.07	90.59	0.000757	5.03	278.22	291.95	0.36
E115-00-00_0008	27466.2	1PCT_100yr	1600.00	80.27	90.97	86.51	91.37	0.000700	5.08	316.87	1389.76	0.35
E115-00-00_0008	26924.0	10PCT_10yr	1240.00	79.12	88.12	86.45	89.16	0.003187	8.17	151.76	31.30	0.65
E115-00-00_0008	26924.0	2PCT_50yr	1420.00	79.12	88.72	86.95	89.79	0.003052	8.30	171.18	33.71	0.65

E115-00-00 Mitigated
HEC-RAS Output

HEC-RAS Plan: Mitigated River: E115-00-00 Reach: E115-00-00_0008 (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
E115-00-00_0008	26924.0	1PCT_100yr	1660.00	79.12	89.57	87.58	90.62	0.002725	8.25	201.31	37.15	0.62
E115-00-00_0008	26768.1	10PCT_10yr	1240.00	78.94	87.92	86.28	88.82	0.001063	7.64	162.41	36.12	0.63
E115-00-00_0008	26768.1	2PCT_50yr	1420.00	78.94	88.55	86.75	89.45	0.000974	7.63	186.23	39.29	0.62
E115-00-00_0008	26768.1	1PCT_100yr	1660.00	78.94	89.45	87.30	90.31	0.000821	7.42	223.76	100.64	0.58
E115-00-00_0008	26731.1		Bridge									
E115-00-00_0008	26694.1	10PCT_10yr	1240.00	78.79	87.37	86.13	88.45	0.001343	8.35	148.46	34.13	0.71
E115-00-00_0008	26694.1	2PCT_50yr	1420.00	78.79	87.97	86.60	89.05	0.001243	8.37	169.68	37.12	0.69
E115-00-00_0008	26694.1	1PCT_100yr	1660.00	78.79	88.82	87.15	89.86	0.001057	8.16	203.33	73.37	0.65
E115-00-00_0008	26592.7	10PCT_10yr	1240.00	78.56	87.26	85.87	88.32	0.001250	8.27	150.00	33.43	0.69
E115-00-00_0008	26592.7	2PCT_50yr	1420.00	78.56	87.85	86.34	88.92	0.001172	8.32	170.68	36.24	0.68
E115-00-00_0008	26592.7	1PCT_100yr	1660.00	78.56	88.71	86.93	89.74	0.001008	8.15	203.67	118.29	0.64
E115-00-00_0008	26206.4	10PCT_10yr	1260.00	77.59	86.79	85.04	87.85	0.001157	8.28	152.09	30.25	0.65
E115-00-00_0008	26206.4	2PCT_50yr	1440.00	77.59	87.38	85.57	88.49	0.001116	8.43	170.74	32.48	0.65
E115-00-00_0008	26206.4	1PCT_100yr	1700.00	77.59	88.19	86.24	89.33	0.001052	8.58	198.10	35.49	0.64
E115-00-00_0008	25817.	10PCT_10yr	1260.00	77.02	86.41	84.47	87.40	0.001047	7.97	158.03	99.28	0.62
E115-00-00_0008	25817.	2PCT_50yr	1440.00	77.02	87.03	84.98	88.05	0.001002	8.10	177.89	131.02	0.62
E115-00-00_0008	25817.	1PCT_100yr	1700.00	77.02	87.87	85.65	88.91	0.000936	8.21	207.13	428.01	0.61
E115-00-00_0008	25717.2	10PCT_10yr	1260.00	76.88	86.37	84.25	87.25	0.000916	7.54	167.20	32.56	0.59
E115-00-00_0008	25717.2	2PCT_50yr	1440.00	76.88	86.99	84.75	87.90	0.000881	7.65	188.28	35.19	0.58
E115-00-00_0008	25717.2	1PCT_100yr	1700.00	76.88	87.84	85.38	88.77	0.000823	7.74	219.67	38.79	0.57
E115-00-00_0008	25700.7		Bridge									
E115-00-00_0008	25676.2	10PCT_10yr	1260.00	76.80	85.72	84.18	86.82	0.001220	8.43	149.47	30.17	0.67
E115-00-00_0008	25676.2	2PCT_50yr	1440.00	76.80	86.26	84.67	87.42	0.001214	8.66	166.26	32.44	0.67
E115-00-00_0008	25676.2	1PCT_100yr	1700.00	76.80	87.05	85.30	88.25	0.001148	8.80	193.22	35.78	0.67
E115-00-00_0008	25569.5	10PCT_10yr	1260.00	76.57	85.43	84.02	86.65	0.001385	8.88	141.96	28.98	0.71
E115-00-00_0008	25569.5	2PCT_50yr	1440.00	76.57	85.92	84.54	87.23	0.001394	9.18	156.89	30.85	0.72
E115-00-00_0008	25569.5	1PCT_100yr	1700.00	76.57	86.73	85.20	88.07	0.001300	9.30	182.85	33.85	0.71
E115-00-00_0008	25168.3	10PCT_10yr	1260.00	75.75	85.07	83.22	86.09	0.001095	8.12	155.08	30.45	0.63
E115-00-00_0008	25168.3	2PCT_50yr	1440.00	75.75	85.56	83.73	86.67	0.001115	8.44	170.57	32.28	0.65
E115-00-00_0008	25168.3	1PCT_100yr	1700.00	75.75	86.41	84.40	87.54	0.001032	8.53	199.25	35.41	0.63
E115-00-00_0008	25073.7	10PCT_10yr	1320.00	75.49	85.08	83.23	85.88	0.000861	7.14	184.90	38.36	0.57
E115-00-00_0008	25073.7	2PCT_50yr	1480.00	75.49	85.61	83.57	86.42	0.000804	7.19	205.71	40.20	0.56
E115-00-00_0008	25073.7	1PCT_100yr	1790.00	75.49	86.45	84.17	87.31	0.000761	7.44	240.61	43.10	0.55
E115-00-00_0008	25046.2		Bridge									
E115-00-00_0008	25018.7	10PCT_10yr	1320.00	75.41	83.44	83.16	85.06	0.002363	10.22	129.15	32.95	0.91
E115-00-00_0008	25018.7	2PCT_50yr	1480.00	75.41	85.02	83.50	86.01	0.001072	7.97	185.60	38.43	0.64
E115-00-00_0008	25018.7	1PCT_100yr	1790.00	75.41	85.77	84.09	86.84	0.001039	8.32	215.13	41.00	0.64
E115-00-00_0008	24912.8	10PCT_10yr	1320.00	75.09	83.50	82.58	84.61	0.001457	8.45	156.26	38.37	0.74
E115-00-00_0008	24912.8	2PCT_50yr	1480.00	75.09	85.08	82.91	85.77	0.000690	6.66	222.24	45.15	0.53
E115-00-00_0008	24912.8	1PCT_100yr	1790.00	75.09	85.84	83.48	86.59	0.000670	6.94	257.78	48.41	0.53
E115-00-00_0008	24695.0	10PCT_10yr	1350.00	74.43	83.37	81.98	84.27	0.001074	7.62	177.24	40.65	0.64
E115-00-00_0008	24695.0	2PCT_50yr	1500.00	74.43	85.05	82.28	85.60	0.000504	5.97	251.41	47.84	0.46
E115-00-00_0008	24695.0	1PCT_100yr	1850.00	74.43	85.79	82.94	86.43	0.000528	6.43	287.92	51.01	0.48
E115-00-00_0008	24323.	10PCT_10yr	1350.00	74.03	82.96	81.58	83.87	0.001083	7.64	176.67	40.59	0.65
E115-00-00_0008	24323.	2PCT_50yr	1500.00	74.03	84.91	81.88	85.41	0.000441	5.68	264.02	48.96	0.43
E115-00-00_0008	24323.	1PCT_100yr	1850.00	74.03	85.64	82.54	86.23	0.000468	6.15	303.17	67.16	0.45
E115-00-00_0008	24223.1	10PCT_10yr	1350.00	73.92	83.03	80.89	83.63	0.000630	6.18	218.36	47.25	0.51
E115-00-00_0008	24223.1	2PCT_50yr	1500.00	73.92	84.95	81.18	85.30	0.000277	4.72	317.59	56.22	0.35
E115-00-00_0008	24223.1	1PCT_100yr	1850.00	73.92	85.69	81.80	86.10	0.000297	5.13	360.43	79.70	0.37
E115-00-00_0008	24166.1		Bridge									
E115-00-00_0008	24109.1	10PCT_10yr	1350.00	73.71	82.98	80.68	83.54	0.000573	5.98	225.94	47.99	0.49
E115-00-00_0008	24109.1	2PCT_50yr	1500.00	73.71	84.54	80.97	84.91	0.000305	4.90	306.41	55.28	0.37
E115-00-00_0008	24109.1	1PCT_100yr	1850.00	73.71	85.02	81.59	85.50	0.000368	5.55	333.42	57.52	0.41
E115-00-00_0008	24010.9	10PCT_10yr	1350.00	73.50	82.94	80.68	83.48	0.000574	6.01	1015.03	772.09	0.48
E115-00-00_0008	24010.9	2PCT_50yr	1500.00	73.50	84.54	80.96	84.86	0.000277	4.70	2682.29	1257.79	0.35
E115-00-00_0008	24010.9	1PCT_100yr	1850.00	73.50	85.03	81.65	85.42	0.000323	5.24	3341.32	1413.30	0.38
E115-00-00_0008	23509.6	10PCT_10yr	1950.00	72.42	81.42	80.67	82.90	0.001622	9.74	200.29	44.09	0.81
E115-00-00_0008	23509.6	2PCT_50yr	2600.00	72.42	83.15	81.66	84.46	0.001107	9.19	282.84	51.49	0.69

E115-00-00 Mitigated
HEC-RAS Output

HEC-RAS Plan: Mitigated River: E115-00-00 Reach: E115-00-00_0008 (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
E115-00-00_0008	23509.6	1PCT_100yr	2900.00	72.42	83.65	82.07	85.02	0.001077	9.38	309.11	53.63	0.69
E115-00-00_0008	23119.4	10PCT_10yr	1950.00	71.53	81.13	79.79	82.27	0.001142	8.58	227.17	46.63	0.69
E115-00-00_0008	23119.4	2PCT_50yr	2600.00	71.53	83.00	80.77	84.01	0.000773	8.07	322.17	54.66	0.59
E115-00-00_0008	23119.4	1PCT_100yr	2900.00	71.53	83.51	81.18	84.57	0.000761	8.27	350.59	57.28	0.59
E115-00-00_0008	22950	10PCT_10yr	1950.00	71.14	81.19	79.02	81.92	0.000631	6.83	285.49	53.92	0.52
E115-00-00_0008	22950	2PCT_50yr	2600.00	71.14	83.07	79.90	83.75	0.000450	6.63	392.25	60.07	0.46
E115-00-00_0008	22950	1PCT_100yr	2900.00	71.14	83.58	80.27	84.31	0.000447	6.85	423.65	66.58	0.46
E115-00-00_0008	22930.4		Bridge									
E115-00-00_0008	22903.4	10PCT_10yr	1950.00	70.95	81.09	78.84	81.79	0.000601	6.71	290.40	54.22	0.51
E115-00-00_0008	22903.4	2PCT_50yr	2600.00	70.95	82.94	79.69	83.61	0.000437	6.56	396.17	60.28	0.45
E115-00-00_0008	22903.4	1PCT_100yr	2900.00	70.95	83.33	80.06	84.07	0.000461	6.91	419.69	62.66	0.47
E115-00-00_0008	22749.1	10PCT_10yr	1950.00	70.72	80.81	78.70	81.65	0.000749	7.35	265.13	50.40	0.57
E115-00-00_0008	22749.1	2PCT_50yr	2600.00	70.72	82.75	79.68	83.51	0.000528	7.01	371.10	58.91	0.49
E115-00-00_0008	22749.1	1PCT_100yr	2900.00	70.72	83.11	80.07	83.96	0.000561	7.38	393.08	98.09	0.51
E115-00-00_0008	22580.1	10PCT_10yr	1950.00	70.49	80.73	78.46	81.52	0.000676	7.11	274.09	51.07	0.54
E115-00-00_0008	22580.1	2PCT_50yr	2600.00	70.49	82.70	79.45	83.42	0.000460	6.79	396.96	104.74	0.46
E115-00-00_0008	22580.1	1PCT_100yr	2900.00	70.49	83.07	79.86	83.86	0.000476	7.16	441.55	347.63	0.48
E115-00-00_0008	22469.6	10PCT_10yr	1950.00	70.30	80.68	78.30	81.43	0.000645	6.97	279.97	51.68	0.53
E115-00-00_0008	22469.6	2PCT_50yr	2600.00	70.30	82.67	79.28	83.35	0.000456	6.64	391.33	198.53	0.46
E115-00-00_0008	22469.6	1PCT_100yr	2900.00	70.30	83.02	79.69	83.79	0.000493	7.02	422.86	413.29	0.48
E115-00-00_0008	22442.1		Bridge									
E115-00-00_0008	22414.6	10PCT_10yr	1950.00	70.00	80.68	77.99	81.36	0.000554	6.59	295.89	53.01	0.49
E115-00-00_0008	22414.6	2PCT_50yr	2600.00	70.00	82.53	78.97	83.18	0.000428	6.48	401.65	227.59	0.45
E115-00-00_0008	22414.6	1PCT_100yr	2900.00	70.00	83.12	79.38	83.78	0.000411	6.54	633.52	1097.42	0.44
E115-00-00_0008	22256.2	10PCT_10yr	1950.00	69.71	80.53	77.93	81.25	0.000592	6.80	286.76	51.07	0.51
E115-00-00_0008	22256.2	2PCT_50yr	2600.00	69.71	82.41	78.93	83.10	0.000453	6.67	389.57	58.83	0.46
E115-00-00_0008	22256.2	1PCT_100yr	2900.00	69.71	82.98	79.34	83.70	0.000433	6.81	513.02	793.12	0.45
E115-00-00_0008	21928.0	10PCT_10yr	1950.00	69.12	80.44	77.34	81.05	0.000466	6.24	312.71	53.13	0.45
E115-00-00_0008	21928.0	2PCT_50yr	2600.00	69.12	82.34	78.34	82.94	0.000359	6.17	424.78	122.54	0.41
E115-00-00_0008	21928.0	1PCT_100yr	2900.00	69.12	82.94	78.75	83.54	0.000332	6.27	688.86	1445.39	0.40
E115-00-00_0008	20792.6	10PCT_10yr	1950.00	67.71	80.23	75.70	80.60	0.000242	4.84	402.67	61.42	0.33
E115-00-00_0008	20792.6	2PCT_50yr	2600.00	67.71	82.34	76.66	82.60	0.000140	4.32	1705.80	1919.69	0.26
E115-00-00_0008	20792.6	1PCT_100yr	2900.00	67.71	83.01	77.08	83.22	0.000111	4.05	2472.65	2162.77	0.24
E115-00-00_0008	20146.5	10PCT_10yr	3230.00	67.17	78.75	77.11	80.15	0.001060	9.50	340.17	57.83	0.69
E115-00-00_0008	20146.5	2PCT_50yr	4690.00	67.17	80.59	78.75	82.22	0.000928	10.29	554.73	648.75	0.67
E115-00-00_0008	20146.5	1PCT_100yr	5430.00	67.17	80.93	79.41	82.83	0.001032	11.19	860.77	1799.70	0.71
E115-00-00_0008	18986.6	10PCT_10yr	3327.00	65.74	77.81	75.66	79.01	0.000821	8.78	381.74	78.33	0.62
E115-00-00_0008	18986.6	2PCT_50yr	4847.00	65.74	80.94	77.26	81.39	0.000245	6.27	3555.84	3477.92	0.36
E115-00-00_0008	18986.6	1PCT_100yr	5616.00	65.74	81.55	78.04	81.92	0.000210	6.06	4870.29	4511.56	0.34
E115-00-00_0008	18689.2	10PCT_10yr	3327.00	65.01	77.77	74.93	78.74	0.000579	7.90	444.65	125.84	0.53
E115-00-00_0008	18689.2	2PCT_50yr	4847.00	65.01	80.99	76.54	81.26	0.000151	5.20	4836.51	5389.95	0.29
E115-00-00_0008	18689.2	1PCT_100yr	5616.00	65.01	81.57	77.31	81.81	0.000135	5.09	5993.33	5690.00	0.27
E115-00-00_0008	18584.6	10PCT_10yr	3400.00	64.84	77.41	74.96	78.60	0.000769	8.74	389.12	106.74	0.60
E115-00-00_0008	18584.6	2PCT_50yr	4920.00	64.84	80.77	76.63	81.19	0.000245	5.92	3154.42	4484.81	0.37
E115-00-00_0008	18584.6	1PCT_100yr	5660.00	64.84	81.39	77.27	81.75	0.000215	5.71	4082.09	5437.34	0.35
E115-00-00_0008	18556.1		Bridge									
E115-00-00_0008	18527.6	10PCT_10yr	3400.00	64.84	77.19	74.96	78.46	0.000843	9.04	376.20	58.56	0.62
E115-00-00_0008	18527.6	2PCT_50yr	4920.00	64.84	78.10	76.64	80.09	0.001190	11.36	512.16	352.27	0.77
E115-00-00_0008	18527.6	1PCT_100yr	5660.00	64.84	78.05	77.60	80.73	0.001614	13.18	499.77	331.64	0.89
E115-00-00_0008	18433.3	10PCT_10yr	3400.00	64.56	77.23	74.90	78.27	0.000720	8.16	416.63	106.65	0.73
E115-00-00_0008	18433.3	2PCT_50yr	4920.00	64.56	78.45	77.50	79.56	0.000815	8.55	896.29	938.28	0.70
E115-00-00_0008	18433.3	1PCT_100yr	5660.00	64.56	78.61	78.11	79.94	0.000990	9.43	1013.36	1043.92	0.76
E115-00-00_0008	17975.5	10PCT_10yr	3770.00	63.20	76.97	74.00	77.95	0.000583	7.95	477.55	180.29	0.64
E115-00-00_0008	17975.5	2PCT_50yr	5270.00	63.20	78.12	75.51	79.22	0.000638	8.60	1072.52	1001.00	0.63
E115-00-00_0008	17975.5	1PCT_100yr	5900.00	63.20	78.24	77.04	79.54	0.000750	9.37	1155.28	1236.17	0.67
E115-00-00_0008	17701.5	10PCT_10yr	3770.00	62.81	77.07	72.87	77.42	0.004242	4.76	842.48	1150.71	0.41
E115-00-00_0008	17701.5	2PCT_50yr	5270.00	62.81	78.37	74.10	78.66	0.002776	4.54	1562.25	2740.62	0.34
E115-00-00_0008	17701.5	1PCT_100yr	5900.00	62.81	78.85	74.57	78.93	0.001057	2.96	5264.05	3961.43	0.21

E115-00-00 Mitigated
HEC-RAS Output

HEC-RAS Plan: Mitigated River: E115-00-00 Reach: E115-00-00_0008 (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
E115-00-00_0008	17296.9	10PCT_10yr	3770.00	62.24	75.68	73.02	76.79	0.000682	8.44	446.46	183.37	0.72
E115-00-00_0008	17296.9	2PCT_50yr	5270.00	62.24	76.53	74.59	77.97	0.000894	9.62	570.17	457.15	0.79
E115-00-00_0008	17296.9	1PCT_100yr	5900.00	62.24	76.53	76.22	78.33	0.001121	10.78	569.99	456.73	0.89
E115-00-00_0008	16862.9	10PCT_10yr	3770.00	61.62	76.02	71.83	76.42	0.000221	5.07	969.20	507.48	0.36
E115-00-00_0008	16862.9	2PCT_50yr	5270.00	61.62	76.98	73.13	77.50	0.000272	5.92	1647.80	1119.89	0.39
E115-00-00_0008	16862.9	1PCT_100yr	5900.00	61.62	77.13	73.60	77.74	0.000317	6.44	1795.71	1310.90	0.42
E115-00-00_0008	16274.8	10PCT_10yr	3770.00	60.79	75.80	71.42	76.27	0.000257	5.92	1929.43	1122.32	0.36
E115-00-00_0008	16274.8	2PCT_50yr	5270.00	60.79	76.86	73.01	77.33	0.000254	6.37	3166.99	1672.49	0.36
E115-00-00_0008	16274.8	1PCT_100yr	5900.00	60.79	77.00	73.78	77.54	0.000292	6.90	3343.76	2048.16	0.39
E115-00-00_0008	15262.0	10PCT_10yr	4050.00	59.76	75.68	70.78	76.02	0.000169	5.26	3166.06	1874.00	0.30
E115-00-00_0008	15262.0	2PCT_50yr	5540.00	59.76	76.79	72.30	77.08	0.000150	5.33	5431.43	3104.75	0.29
E115-00-00_0008	15262.0	1PCT_100yr	6080.00	59.76	76.92	73.00	77.26	0.000173	5.77	5747.04	3528.93	0.31
E115-00-00_0008	14506.7	10PCT_10yr	4050.00	58.76	75.67	69.78	75.88	0.000100	4.33	4365.20	2754.91	0.24
E115-00-00_0008	14506.7	2PCT_50yr	5540.00	58.76	76.75	71.25	76.96	0.000099	4.59	6668.41	4018.37	0.24
E115-00-00_0008	14506.7	1PCT_100yr	6080.00	58.76	76.89	71.62	77.11	0.000110	4.87	6995.18	4106.50	0.25
E115-00-00_0008	14412.3	10PCT_10yr	4050.00	58.64	75.52	70.14	75.84	0.000162	5.24	3380.91	2224.30	0.29
E115-00-00_0008	14412.3	2PCT_50yr	5540.00	58.64	76.67	71.74	76.93	0.000142	5.26	5558.96	3682.41	0.27
E115-00-00_0008	14412.3	1PCT_100yr	6080.00	58.64	76.83	74.08	77.09	0.000147	5.41	7722.51	3753.47	0.28
E115-00-00_0008	14355.3		Bridge									
E115-00-00_0008	14289.1	10PCT_10yr	4050.00	58.38	74.76	69.86	75.28	0.000250	6.30	2227.68	1525.33	0.35
E115-00-00_0008	14289.1	2PCT_50yr	5540.00	58.38	76.34	71.46	76.67	0.000167	5.69	4861.83	3477.05	0.30
E115-00-00_0008	14289.1	1PCT_100yr	6080.00	58.38	76.46	71.97	76.82	0.000187	6.06	5116.94	3590.59	0.31
E115-00-00_0008	14004.3	10PCT_10yr	4050.00	58.16	74.76		75.17	0.000180	5.57	2356.66	1469.56	0.31
E115-00-00_0008	14004.3	2PCT_50yr	5540.00	58.16	76.31		76.62	0.000135	5.29	5887.48	3145.52	0.27
E115-00-00_0008	14004.3	1PCT_100yr	6080.00	58.16	76.43		76.77	0.000151	5.64	6261.98	3304.21	0.29
E115-00-00_0008	13336.3	10PCT_10yr	4223.00	57.64	74.71	68.59	75.03	0.000143	5.11	3444.49	2105.68	0.28
E115-00-00_0008	13336.3	2PCT_50yr	5699.00	57.64	76.29	70.21	76.51	0.000102	4.74	6202.60	3885.85	0.24
E115-00-00_0008	13336.3	1PCT_100yr	6183.00	57.64	76.40	70.68	76.65	0.000113	5.01	6405.80	4500.32	0.25
E115-00-00_0008	12740.2	10PCT_10yr	4223.00	57.37	74.50	68.32	74.93	0.000171	5.62	1542.85	2110.54	0.30
E115-00-00_0008	12740.2	2PCT_50yr	5699.00	57.37	75.92	69.94	76.40	0.000175	6.18	2109.70	4118.99	0.31
E115-00-00_0008	12740.2	1PCT_100yr	6183.00	57.37	75.96	70.40	76.53	0.000203	6.67	2127.09	4157.86	0.34
E115-00-00_0008	12552.6	10PCT_10yr	4223.00	57.28	74.45	67.75	74.89	0.000153	5.44	896.79	2146.81	0.29
E115-00-00_0008	12552.6	2PCT_50yr	5699.00	57.28	75.80	69.30	76.34	0.000171	6.22	4100.34	3341.62	0.32
E115-00-00_0008	12552.6	1PCT_100yr	6183.00	57.28	75.81	69.74	76.45	0.000200	6.74	4128.24	3367.49	0.34
E115-00-00_0008	12532.3		Bridge									
E115-00-00_0008	12512.0	10PCT_10yr	4223.00	57.28	73.77	67.75	74.29	0.000194	5.87	813.06	1672.27	0.33
E115-00-00_0008	12512.0	2PCT_50yr	5699.00	57.28	75.24	69.27	75.92	0.000215	6.76	995.08	2683.37	0.35
E115-00-00_0008	12512.0	1PCT_100yr	6183.00	57.28	75.37	69.71	76.15	0.000243	7.24	1010.50	2840.03	0.38
E115-00-00_0008	12473.4	10PCT_10yr	4223.00	56.96	73.52	67.95	74.23	0.000266	6.76	669.41	1614.87	0.38
E115-00-00_0008	12473.4	2PCT_50yr	5699.00	56.96	74.87	69.59	75.82	0.000310	7.94	807.85	3096.62	0.42
E115-00-00_0008	12473.4	1PCT_100yr	6183.00	56.96	75.08	70.04	76.06	0.000323	8.20	4104.09	3197.97	0.43
E115-00-00_0008	12430.4		Bridge									
E115-00-00_0008	12387.4	10PCT_10yr	4223.00	56.74	72.10	66.14	72.49	0.000633	5.02	844.02	163.47	0.31
E115-00-00_0008	12387.4	2PCT_50yr	5699.00	56.74	73.86	67.41	74.34	0.000610	5.59	1025.06	1877.47	0.31
E115-00-00_0008	12387.4	1PCT_100yr	6183.00	56.74	74.36	67.79	74.88	0.000611	5.78	1076.52	2209.64	0.31
E115-00-00_0008	12246.2	10PCT_10yr	4220.00	56.53	71.21	67.13	72.22	0.000498	8.07	522.82	64.27	0.50
E115-00-00_0008	12246.2	2PCT_50yr	5660.00	56.53	72.89	68.72	74.06	0.000463	8.75	898.41	1183.74	0.50
E115-00-00_0008	12246.2	1PCT_100yr	6140.00	56.53	73.45	69.19	74.60	0.000435	8.81	1092.89	1447.16	0.48
E115-00-00_0008	11915.1	10PCT_10yr	4220.00	56.05	71.12	66.65	72.04	0.000434	7.70	551.84	95.34	0.47
E115-00-00_0008	11915.1	2PCT_50yr	5660.00	56.05	72.83	68.24	73.88	0.000399	8.35	1140.61	661.52	0.46
E115-00-00_0008	11915.1	1PCT_100yr	6140.00	56.05	73.42	68.71	74.44	0.000367	8.32	1677.76	1190.42	0.45
E115-00-00_0008	11812.3	10PCT_10yr	4210.00	55.90	71.09	66.48	71.98	0.000412	7.57	556.97	70.03	0.46
E115-00-00_0008	11812.3	2PCT_50yr	5520.00	55.90	72.80	67.93	73.82	0.000375	8.16	987.94	798.74	0.45
E115-00-00_0008	11812.3	1PCT_100yr	5980.00	55.90	73.40	68.39	74.38	0.000343	8.11	1532.93	1104.84	0.43
E115-00-00_0008	11806.2		Bridge									
E115-00-00_0008	11752.8	10PCT_10yr	4210.00	55.82	70.85	66.40	71.78	0.000438	7.71	546.03	67.17	0.47
E115-00-00_0008	11752.8	2PCT_50yr	5520.00	55.82	72.45	67.85	73.56	0.000417	8.46	739.35	519.69	0.47
E115-00-00_0008	11752.8	1PCT_100yr	5980.00	55.82	72.76	68.31	73.96	0.000435	8.82	965.02	791.02	0.49

E115-00-00 Mitigated
HEC-RAS Output

HEC-RAS Plan: Mitigated River: E115-00-00 Reach: E115-00-00_0008 (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
E115-00-00_0008	11652.	10PCT_10yr	4210.00	55.63	70.82	66.21	71.71	0.000411	7.57	560.90	103.40	0.46
E115-00-00_0008	11652.	2PCT_50yr	5520.00	55.63	72.50	67.66	73.44	0.000359	7.96	1200.25	1008.20	0.44
E115-00-00_0008	11652.	1PCT_100yr	5980.00	55.63	72.85	68.11	73.79	0.000353	8.08	1744.43	1163.45	0.44
E115-00-00_0008	11351.7	10PCT_10yr	4210.00	55.07	70.79	65.85	71.55	0.000390	7.05	775.26	307.73	0.45
E115-00-00_0008	11351.7	2PCT_50yr	5520.00	55.07	72.58	67.30	73.26	0.000329	6.88	1636.57	761.98	0.42
E115-00-00_0008	11351.7	1PCT_100yr	5980.00	55.07	72.92	67.75	73.61	0.000323	7.00	1896.25	878.06	0.42
E115-00-00_0008	10368.6	10PCT_10yr	4210.00	54.01	70.56	64.69	71.21	0.000258	6.47	680.10	236.65	0.37
E115-00-00_0008	10368.6	2PCT_50yr	5420.00	54.01	72.36	66.03	72.99	0.000210	6.55	1926.19	1228.13	0.34
E115-00-00_0008	10368.6	1PCT_100yr	5870.00	54.01	72.72	66.48	73.34	0.000209	6.68	2348.70	1390.51	0.34
E115-00-00_0008	9371.10	10PCT_10yr	4210.00	53.04	70.49	63.72	70.95	0.000170	5.58	1382.24	718.45	0.30
E115-00-00_0008	9371.10	2PCT_50yr	5420.00	53.04	72.42	65.06	72.74	0.000113	5.10	3056.96	1190.09	0.26
E115-00-00_0008	9371.10	1PCT_100yr	5870.00	53.04	72.77	65.51	73.09	0.000113	5.19	3458.27	1394.05	0.26
E115-00-00_0008	9275.2	10PCT_10yr	4207.00	52.95	70.51	63.66	70.88	0.000464	5.12	1303.91	648.56	0.31
E115-00-00_0008	9275.2	2PCT_50yr	5418.00	52.95	72.47	65.02	72.66	0.000232	4.15	3131.07	1362.49	0.22
E115-00-00_0008	9275.2	1PCT_100yr	5859.00	52.95	72.83	65.42	73.01	0.000219	4.12	3579.63	1510.27	0.22
E115-00-00_0008	9239.2		Bridge									
E115-00-00_0008	9203.2	10PCT_10yr	4207.00	52.93	69.91	63.64	70.40	0.000613	5.75	968.82	481.80	0.35
E115-00-00_0008	9203.2	2PCT_50yr	5418.00	52.93	72.32	64.99	72.53	0.000251	4.27	2977.71	1326.83	0.23
E115-00-00_0008	9203.2	1PCT_100yr	5859.00	52.93	72.73	65.41	72.92	0.000229	4.19	3487.32	1465.24	0.22
E115-00-00_0008	9096.10	10PCT_10yr	4207.00	52.78	69.75		70.34	0.000225	6.21	871.60	394.09	0.35
E115-00-00_0008	9096.10	2PCT_50yr	5418.00	52.78	71.97		72.43	0.000151	5.81	2730.95	1213.28	0.29
E115-00-00_0008	9096.10	1PCT_100yr	5859.00	52.78	72.36		72.82	0.000149	5.90	3232.75	1345.76	0.29
E115-00-00_0008	8157.3	10PCT_10yr	5679.00	51.48	69.08	63.82	70.03	0.000336	7.90	857.31	1221.88	0.43
E115-00-00_0008	8157.3	2PCT_50yr	7933.00	51.48	70.94	65.86	72.13	0.000351	9.00	1569.34	2076.12	0.45
E115-00-00_0008	8157.3	1PCT_100yr	8773.00	51.48	71.08	66.46	72.49	0.000411	9.80	1632.01	2119.66	0.49
E115-00-00_0008	7902.6	10PCT_10yr	5679.00	51.29	69.01	63.63	69.94	0.000323	7.80	815.35	1084.47	0.42
E115-00-00_0008	7902.6	2PCT_50yr	7933.00	51.29	71.11	65.67	71.94	0.000261	7.91	4835.19	2404.18	0.39
E115-00-00_0008	7902.6	1PCT_100yr	8773.00	51.29	71.33	66.28	72.26	0.000292	8.45	5336.80	2621.44	0.41
E115-00-00_0008	7751.6	10PCT_10yr	5679.00	51.17	69.06	63.55	69.79	0.000310	6.86	828.51	1028.59	0.51
E115-00-00_0008	7751.6	2PCT_50yr	7933.00	51.17	71.27	65.58	71.68	0.000213	5.67	4227.62	1724.33	0.36
E115-00-00_0008	7751.6	1PCT_100yr	8773.00	51.17	71.51	66.24	71.95	0.000232	5.93	4655.59	1810.97	0.37
E115-00-00_0008	7598.1		Bridge									
E115-00-00_0008	7444.6	10PCT_10yr	5710.00	51.14	67.40	63.55	68.67	0.000552	9.05	630.91	93.06	0.61
E115-00-00_0008	7444.6	2PCT_50yr	7970.00	51.14	68.56	65.52	70.26	0.000716	10.48	760.66	497.72	0.79
E115-00-00_0008	7444.6	1PCT_100yr	8810.00	51.14	68.98	66.22	70.77	0.000759	10.74	821.00	1003.19	0.80
E115-00-00_0008	7330.4	10PCT_10yr	5710.00	50.86	67.34	63.34	68.61	0.000526	9.06	682.11	303.16	0.52
E115-00-00_0008	7330.4	2PCT_50yr	7970.00	50.86	67.83	65.36	70.02	0.000854	11.94	828.70	684.97	0.67
E115-00-00_0008	7330.4	1PCT_100yr	8810.00	50.86	68.44	65.98	70.58	0.000798	12.02	1465.12	1061.81	0.66
E115-00-00_0008	6852.1	10PCT_10yr	5740.00	49.67	67.41	62.18	68.31	0.000325	7.75	1189.00	570.07	0.42
E115-00-00_0008	6852.1	2PCT_50yr	8010.00	49.67	68.07	64.21	69.49	0.000489	9.89	1634.68	890.38	0.52
E115-00-00_0008	6852.1	1PCT_100yr	8850.00	49.67	68.70	64.86	70.07	0.000457	9.92	2299.53	1133.99	0.51
E115-00-00_0008	6427.9	10PCT_10yr	5740.00	49.29	67.30	61.81	68.16	0.000303	7.60	1271.20	758.25	0.41
E115-00-00_0008	6427.9	2PCT_50yr	8010.00	49.29	67.91	63.83	69.27	0.000458	9.70	1813.71	970.47	0.50
E115-00-00_0008	6427.9	1PCT_100yr	8850.00	49.29	68.55	64.43	69.86	0.000426	9.70	2505.21	1204.77	0.49
E115-00-00_0008	6273.6	10PCT_10yr	5820.00	49.15	67.26	61.48	68.00	0.000650	7.27	1172.83	736.34	0.42
E115-00-00_0008	6273.6	2PCT_50yr	8100.00	49.15	67.88	63.49	69.00	0.000939	9.12	1699.84	967.58	0.51
E115-00-00_0008	6273.6	1PCT_100yr	8950.00	49.15	68.57	64.16	69.55	0.000810	8.85	2422.17	1151.65	0.47
E115-00-00_0008	6202.3		Bridge									
E115-00-00_0008	6116.7	10PCT_10yr	5820.00	49.15	65.38	61.44	66.70	0.000858	9.23	630.30	74.15	0.56
E115-00-00_0008	6116.7	2PCT_50yr	8100.00	49.15	66.65	63.48	68.53	0.001639	11.04	815.26	480.50	0.65
E115-00-00_0008	6116.7	1PCT_100yr	8950.00	49.15	68.31	64.12	69.49	0.000914	9.24	2182.99	1064.61	0.50
E115-00-00_0008	6016.	10PCT_10yr	5820.00	48.92	65.31	61.56	66.63	0.000552	9.25	680.00	140.84	0.54
E115-00-00_0008	6016.	2PCT_50yr	8100.00	48.92	66.51	63.58	68.43	0.000690	11.22	886.00	288.07	0.61
E115-00-00_0008	6016.	1PCT_100yr	8950.00	48.92	67.26	64.18	69.19	0.000646	11.37	1285.96	916.09	0.60
E115-00-00_0008	5602.8	10PCT_10yr	5820.00	47.99	65.30	60.63	66.36	0.000396	8.34	854.02	311.37	0.46
E115-00-00_0008	5602.8	2PCT_50yr	8100.00	47.99	66.60	62.62	68.05	0.000476	9.91	1413.53	557.49	0.52
E115-00-00_0008	5602.8	1PCT_100yr	8950.00	47.99	67.44	63.19	68.81	0.000427	9.83	1912.28	638.53	0.49
E115-00-00_0008	5016.7	10PCT_10yr	5820.00	47.60	65.15		66.11	0.000357	8.62	879.78	394.39	0.44
E115-00-00_0008	5016.7	2PCT_50yr	8100.00	47.60	66.64		67.68	0.000384	9.67	1820.96	708.44	0.46

E115-00-00 Mitigated
HEC-RAS Output

HEC-RAS Plan: Mitigated River: E115-00-00 Reach: E115-00-00_0008 (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
E115-00-00_0008	5016.7	1PCT_100yr	8950.00	47.60	67.56		68.44	0.000325	9.29	2550.02	909.70	0.43
E115-00-00_0008	4894.1	10PCT_10yr	5870.00	47.52	65.18	59.55	65.99	0.000287	7.29	1075.45	506.48	0.40
E115-00-00_0008	4894.1	2PCT_50yr	8160.00	47.52	66.61	61.48	67.62	0.000323	8.41	1982.52	691.64	0.43
E115-00-00_0008	4894.1	1PCT_100yr	9010.00	47.52	67.41	62.11	68.37	0.000292	8.35	2571.80	836.32	0.41
E115-00-00_0008	4863.6		Bridge									
E115-00-00_0008	4833.1	10PCT_10yr	5870.00	47.49	63.91	59.52	65.00	0.000452	8.40	706.65	109.18	0.49
E115-00-00_0008	4833.1	2PCT_50yr	8160.00	47.49	66.56	61.43	67.59	0.000324	8.43	1971.97	690.46	0.43
E115-00-00_0008	4833.1	1PCT_100yr	9010.00	47.49	67.39	62.06	68.35	0.000291	8.35	2572.64	836.77	0.41
E115-00-00_0008	4713.5	10PCT_10yr	5870.00	47.27	62.97		64.73	0.000835	10.65	551.19	65.29	0.65
E115-00-00_0008	4713.5	2PCT_50yr	8160.00	47.27	65.44	62.24	67.29	0.000673	11.01	1042.71	537.71	0.62
E115-00-00_0008	4713.5	1PCT_100yr	9010.00	47.27	66.57		68.13	0.000527	10.37	1879.72	915.61	0.55
E115-00-00_0008	4024.5	10PCT_10yr	5930.00	45.99	62.73	58.96	64.14	0.000597	9.55	633.17	108.08	0.55
E115-00-00_0008	4024.5	2PCT_50yr	8230.00	45.99	65.32	60.99	66.79	0.000464	9.93	1255.29	514.98	0.51
E115-00-00_0008	4024.5	1PCT_100yr	9070.00	45.99	66.48	61.67	67.74	0.000371	9.45	2226.59	967.60	0.46
E115-00-00_0008	3095.3	10PCT_10yr	5980.00	45.95	62.07	58.53	63.55	0.000648	9.78	612.46	74.55	0.58
E115-00-00_0008	3095.3	2PCT_50yr	8300.00	45.95	64.83	60.57	66.34	0.000481	10.02	1283.60	644.38	0.52
E115-00-00_0008	3095.3	1PCT_100yr	9140.00	45.95	66.21	61.22	67.38	0.000346	9.15	2378.86	857.86	0.45
E115-00-00_0008	2552.5	10PCT_10yr	5980.00	45.70	61.16	58.72	63.09	0.000935	11.17	535.48	64.29	0.68
E115-00-00_0008	2552.5	2PCT_50yr	8300.00	45.70	63.99	60.76	65.98	0.000687	11.36	797.00	219.25	0.61
E115-00-00_0008	2552.5	1PCT_100yr	9140.00	45.70	65.37	61.41	67.10	0.000524	10.75	1434.79	641.09	0.54
E115-00-00_0008	2460.5	10PCT_10yr	5980.00	45.66	61.39	57.60	62.72	0.000579	9.27	645.39	75.04	0.55
E115-00-00_0008	2460.5	2PCT_50yr	8300.00	45.66	64.21	59.56	65.66	0.000439	9.70	894.33	259.53	0.50
E115-00-00_0008	2460.5	1PCT_100yr	9140.00	45.66	65.55	60.18	66.84	0.000347	9.28	1659.52	754.06	0.45
E115-00-00_0008	2418.5		Bridge									
E115-00-00_0008	2376.5	10PCT_10yr	5980.00	45.66	60.96	57.61	62.43	0.000660	9.73	614.82	71.02	0.58
E115-00-00_0008	2376.5	2PCT_50yr	8300.00	45.66	63.07	59.53	64.88	0.000622	10.79	785.67	91.33	0.58
E115-00-00_0008	2376.5	1PCT_100yr	9140.00	45.66	63.69	60.15	65.63	0.000622	11.20	843.87	118.53	0.59
E115-00-00_0008	2276.	10PCT_10yr	5980.00	45.39	60.15		62.18	0.001014	11.43	522.99	64.50	0.71
E115-00-00_0008	2276.	2PCT_50yr	8300.00	45.39	62.13		64.60	0.000935	12.67	699.34	114.62	0.70
E115-00-00_0008	2276.	1PCT_100yr	9140.00	45.39	62.69	60.59	65.35	0.000937	13.15	769.50	146.78	0.71
E115-00-00_0008	2090.4	10PCT_10yr	6109.00	44.89	60.05	57.59	61.97	0.000907	11.13	551.16	79.95	0.67
E115-00-00_0008	2090.4	2PCT_50yr	8445.00	44.89	62.13	59.56	64.37	0.000803	12.13	824.93	187.56	0.66
E115-00-00_0008	2090.4	1PCT_100yr	9289.00	44.89	62.73	60.28	65.10	0.000794	12.51	940.61	274.38	0.66
E115-00-00_0008	1698.	10PCT_10yr	6109.00	44.67	59.48	57.37	61.57	0.001042	11.62	525.90	65.49	0.72
E115-00-00_0008	1698.	2PCT_50yr	8445.00	44.67	61.65	59.35	64.03	0.000877	12.47	791.95	165.94	0.68
E115-00-00_0008	1698.	1PCT_100yr	9289.00	44.67	62.29	60.09	64.77	0.000852	12.79	902.94	182.87	0.68
E115-00-00_0008	1598.5	10PCT_10yr	6109.00	44.53	59.48	56.98	61.38	0.000844	11.07	565.26	112.99	0.65
E115-00-00_0008	1598.5	2PCT_50yr	8445.00	44.53	61.64	58.96	63.88	0.000756	12.11	778.21	220.42	0.64
E115-00-00_0008	1598.5	1PCT_100yr	9289.00	44.53	62.25	59.60	64.64	0.000755	12.55	847.64	249.19	0.65
E115-00-00_0008	1567.2		Bridge									
E115-00-00_0008	1563.1	10PCT_10yr	6109.00	44.47	56.95	56.95	60.53	0.002128	15.20	402.00	56.07	1.00
E115-00-00_0008	1563.1	2PCT_50yr	8445.00	44.47	58.92	58.92	63.01	0.001963	16.24	524.69	98.94	0.99
E115-00-00_0008	1563.1	1PCT_100yr	9289.00	44.47	59.54	59.54	63.81	0.001863	16.59	575.52	116.37	0.97
E115-00-00_0008	1457.4	10PCT_10yr	6109.00	43.96	54.54	52.88	56.39	0.000886	10.94	558.60	93.44	0.79
E115-00-00_0008	1457.4	2PCT_50yr	8445.00	43.96	58.85	54.98	59.78	0.000368	7.76	1087.98	163.15	0.50
E115-00-00_0008	1457.4	1PCT_100yr	9289.00	43.96	59.33	55.54	60.33	0.000386	8.02	1157.99	186.20	0.50
E115-00-00_0008	1304.	10PCT_10yr	6109.00	43.21	54.80	52.13	56.12	0.000588	9.24	661.23	107.84	0.66
E115-00-00_0008	1304.	2PCT_50yr	8445.00	43.21	58.91	54.24	59.69	0.000292	7.08	1192.29	144.23	0.43
E115-00-00_0008	1304.	1PCT_100yr	9289.00	43.21	59.39	54.79	60.23	0.000309	7.36	1261.92	147.91	0.44
E115-00-00_0008	1203.8	10PCT_10yr	6109.00	42.72	54.85	51.64	55.97	0.000481	8.48	720.61	115.97	0.60
E115-00-00_0008	1203.8	2PCT_50yr	8445.00	42.72	58.94	53.74	59.61	0.000252	6.57	1285.54	153.16	0.40
E115-00-00_0008	1203.8	1PCT_100yr	9289.00	42.72	59.41	54.29	60.14	0.000268	6.83	1359.57	156.24	0.41
E115-00-00_0008	1148.8		Bridge									
E115-00-00_0008	1093.8	10PCT_10yr	6109.00	42.59	54.71	51.52	55.83	0.000483	8.49	719.32	115.80	0.60
E115-00-00_0008	1093.8	2PCT_50yr	8445.00	42.59	56.48	53.61	57.71	0.000503	8.93	946.03	138.75	0.60
E115-00-00_0008	1093.8	1PCT_100yr	9289.00	42.59	57.08	54.16	58.34	0.000503	9.02	1030.30	142.28	0.59
E115-00-00_0008	1016.5	10PCT_10yr	6109.00	41.94	54.83		55.66	0.000365	7.32	834.06	144.20	0.54
E115-00-00_0008	1016.5	2PCT_50yr	8445.00	41.94	56.63		57.50	0.000384	7.48	1129.53	182.28	0.53

E115-00-00 Mitigated
HEC-RAS Output

HEC-RAS Plan: Mitigated River: E115-00-00 Reach: E115-00-00_0008 (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
E115-00-00_0008	1016.5	1PCT_100yr	9289.00	41.94	57.24		58.11	0.000385	7.46	1245.07	194.39	0.52
E115-00-00_0008	794.3	10PCT_10yr	6109.00	40.09	54.95	49.11	55.43	0.001001	5.56	1097.80	155.51	0.37
E115-00-00_0008	794.3	2PCT_50yr	8445.00	40.09	56.70	51.24	57.28	0.001000	6.13	1376.63	163.61	0.37
E115-00-00_0008	794.3	1PCT_100yr	9289.00	40.09	57.28	51.86	57.90	0.001000	6.31	1472.44	166.32	0.37

E115-00-00 Revised Existing
HEC-RAS Output

HEC-RAS Plan: Rev Ext River: E115-00-00 Reach: E115-00-00_0008

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
E115-00-00_0008	32382.3	10PCT_10yr	840.00	83.86	95.83	91.24	96.01	0.000849	3.49	340.01	846.92	0.27
E115-00-00_0008	32382.3	2PCT_50yr	1000.00	83.86	96.16	91.80	96.36	0.000951	3.77	409.73	895.92	0.28
E115-00-00_0008	32382.3	1PCT_100yr	1100.00	83.86	96.59	92.08	96.77	0.000829	3.65	686.27	1518.26	0.27
E115-00-00_0008	32282.3	10PCT_10yr	840.00	83.41	95.84	90.77	95.89	0.000316	2.20	1019.20	1304.15	0.16
E115-00-00_0008	32282.3	2PCT_50yr	1000.00	83.41	96.18	91.32	96.23	0.000301	2.21	1262.04	1556.47	0.16
E115-00-00_0008	32282.3	1PCT_100yr	1100.00	83.41	96.62	91.63	96.66	0.000231	2.03	1643.92	2038.59	0.14
E115-00-00_0008	32267.5		Bridge									
E115-00-00_0008	32234.4	10PCT_10yr	840.00	83.03	95.81	90.39	95.84	0.000211	1.85	1266.64	1562.17	0.14
E115-00-00_0008	32234.4	2PCT_50yr	1000.00	83.03	96.17	90.96	96.20	0.000211	1.92	1573.83	2011.08	0.14
E115-00-00_0008	32234.4	1PCT_100yr	1100.00	83.03	96.50	91.27	96.53	0.000168	1.78	1874.40	2210.86	0.12
E115-00-00_0008	32088.3	10PCT_10yr	840.00	82.36	95.69	89.82	95.78	0.000452	2.65	685.67	1163.77	0.19
E115-00-00_0008	32088.3	2PCT_50yr	1000.00	82.36	96.05	90.42	96.14	0.000460	2.71	866.63	1391.79	0.20
E115-00-00_0008	32088.3	1PCT_100yr	1100.00	82.36	96.40	90.76	96.47	0.000435	2.67	1086.96	1743.53	0.19
E115-00-00_0008	31967.0	10PCT_10yr	900.00	82.36	95.72	85.75	95.75	0.000013	1.43	1956.64	1935.77	0.08
E115-00-00_0008	31967.0	2PCT_50yr	1080.00	82.36	96.08	86.15	96.11	0.000016	1.59	2250.75	2269.73	0.09
E115-00-00_0008	31967.0	1PCT_100yr	1200.00	82.36	96.41	86.42	96.45	0.000016	1.65	2544.04	2447.54	0.09
E115-00-00_0008	31888.1		Culvert									
E115-00-00_0008	31836.0	10PCT_10yr	900.00	82.20	95.72	85.59	95.74	0.000012	1.42	1963.10	1939.20	0.08
E115-00-00_0008	31836.0	2PCT_50yr	1080.00	82.20	96.07	85.99	96.10	0.000015	1.58	2257.52	2270.40	0.09
E115-00-00_0008	31836.0	1PCT_100yr	1200.00	82.20	96.41	86.26	96.44	0.000016	1.64	2550.81	2450.05	0.09
E115-00-00_0008	31683.4	10PCT_10yr	900.00	82.55	95.66	88.28	95.73	0.000214	2.20	875.11	2307.86	0.14
E115-00-00_0008	31683.4	2PCT_50yr	1080.00	82.55	96.02	88.75	96.09	0.000229	2.30	1196.75	2914.23	0.15
E115-00-00_0008	31683.4	1PCT_100yr	1200.00	82.55	96.38	89.06	96.43	0.000197	2.17	1519.52	3133.17	0.14
E115-00-00_0008	31559.8	10PCT_10yr	980.00	82.84	95.44	90.89	95.63	0.000880	3.77	527.47	2350.48	0.27
E115-00-00_0008	31559.8	2PCT_50yr	1200.00	82.84	95.82	91.56	95.99	0.000843	3.84	811.19	2952.18	0.26
E115-00-00_0008	31559.8	1PCT_100yr	1350.00	82.84	96.25	91.97	96.37	0.000614	3.41	1191.86	3474.30	0.23
E115-00-00_0008	31545.6		Bridge									
E115-00-00_0008	31512.4	10PCT_10yr	980.00	82.84	95.33	90.89	95.63	0.001200	4.34	232.16	2237.20	0.31
E115-00-00_0008	31512.4	2PCT_50yr	1200.00	82.84	95.80	91.57	95.98	0.000866	3.88	792.38	2889.83	0.27
E115-00-00_0008	31512.4	1PCT_100yr	1350.00	82.84	96.01	91.98	96.19	0.000855	3.94	979.95	3223.51	0.27
E115-00-00_0008	31413.3	10PCT_10yr	980.00	82.87	95.21	91.39	95.50	0.001316	4.46	323.55	1979.25	0.33
E115-00-00_0008	31413.3	2PCT_50yr	1200.00	82.87	95.46	92.00	95.82	0.001571	5.01	435.10	2356.29	0.36
E115-00-00_0008	31413.3	1PCT_100yr	1350.00	82.87	95.69	92.42	96.03	0.001545	5.10	580.17	2793.21	0.36
E115-00-00_0008	31303.0	10PCT_10yr	980.00	82.91	95.00	91.42	95.34	0.001545	4.72	297.18	2382.67	0.35
E115-00-00_0008	31303.0	2PCT_50yr	1200.00	82.91	95.28	92.06	95.64	0.001668	5.07	493.93	2661.82	0.37
E115-00-00_0008	31303.0	1PCT_100yr	1350.00	82.91	95.54	92.46	95.85	0.001469	4.90	703.77	3446.65	0.35
E115-00-00_0008	31210.3	10PCT_10yr	1000.00	82.94	94.86	91.02	95.18	0.001537	4.69	289.16	2036.53	0.35
E115-00-00_0008	31210.3	2PCT_50yr	1220.00	82.94	95.06	91.73	95.45	0.001878	5.31	416.29	2454.18	0.39
E115-00-00_0008	31210.3	1PCT_100yr	1370.00	82.94	95.40	92.15	95.70	0.001492	4.92	695.74	2831.97	0.35
E115-00-00_0008	31186.8		Bridge									
E115-00-00_0008	31163.3	10PCT_10yr	1000.00	82.74	94.70	90.82	95.05	0.001587	4.79	214.78	1727.92	0.36
E115-00-00_0008	31163.3	2PCT_50yr	1220.00	82.74	95.08	91.54	95.45	0.001643	5.09	439.95	2469.16	0.37
E115-00-00_0008	31163.3	1PCT_100yr	1370.00	82.74	95.40	91.95	95.69	0.001368	4.81	700.35	2825.38	0.34
E115-00-00_0008	31058.5	10PCT_10yr	1000.00	82.89	94.65	90.17	94.86	0.000820	3.78	358.92	2042.07	0.27
E115-00-00_0008	31058.5	2PCT_50yr	1220.00	82.89	95.01	90.76	95.26	0.000918	4.16	522.44	2854.55	0.29
E115-00-00_0008	31058.5	1PCT_100yr	1370.00	82.89	95.33	91.17	95.54	0.000825	4.07	806.52	3288.51	0.28
E115-00-00_0008	30876.1	10PCT_10yr	1000.00	83.16	94.65	89.22	94.71	0.000440	2.19	855.13	2532.34	0.17
E115-00-00_0008	30876.1	2PCT_50yr	1220.00	83.16	95.03	89.73	95.09	0.000448	2.23	1105.09	2806.25	0.17
E115-00-00_0008	30876.1	1PCT_100yr	1370.00	83.16	95.34	90.06	95.39	0.000420	2.19	1317.94	3283.62	0.17
E115-00-00_0008	30772.2	10PCT_10yr	1070.00	83.31	94.59	89.00	94.66	0.000411	2.31	793.96	2261.99	0.17
E115-00-00_0008	30772.2	2PCT_50yr	1280.00	83.31	94.97	89.41	95.04	0.000424	2.41	991.65	2701.66	0.17
E115-00-00_0008	30772.2	1PCT_100yr	1450.00	83.31	95.26	89.73	95.34	0.000419	2.46	1156.14	2898.05	0.17
E115-00-00_0008	30744.2		Bridge									
E115-00-00_0008	30716.2	10PCT_10yr	1070.00	83.31	94.48	89.00	94.56	0.000447	2.40	733.58	2071.91	0.18
E115-00-00_0008	30716.2	2PCT_50yr	1280.00	83.31	94.86	89.42	94.94	0.000472	2.52	916.35	2593.10	0.18
E115-00-00_0008	30716.2	1PCT_100yr	1450.00	83.31	95.15	89.73	95.23	0.000468	2.58	1071.72	2819.71	0.18
E115-00-00_0008	30620.	10PCT_10yr	1070.00	83.17	94.43	88.89	94.51	0.000537	2.40	590.03	1532.50	0.19
E115-00-00_0008	30620.	2PCT_50yr	1280.00	83.17	94.80	89.31	94.89	0.000612	2.58	693.35	1787.35	0.20

E115-00-00 Revised Existing
HEC-RAS Output

HEC-RAS Plan: Rev Ext River: E115-00-00 Reach: E115-00-00_0008 (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
E115-00-00_0008	30620.	1PCT_100yr	1450.00	83.17	95.07	89.63	95.17	0.000696	2.77	800.37	2007.83	0.22
E115-00-00_0008	29947.0	10PCT_10yr	1070.00	82.22	94.10	87.60	94.19	0.000407	2.52	548.63	1492.33	0.17
E115-00-00_0008	29947.0	2PCT_50yr	1280.00	82.22	94.41	88.07	94.52	0.000477	2.80	665.26	1894.26	0.19
E115-00-00_0008	29947.0	1PCT_100yr	1450.00	82.22	94.61	88.42	94.75	0.000567	3.10	754.65	2263.94	0.20
E115-00-00_0008	29455.4	10PCT_10yr	1070.00	82.14	93.95	88.23	94.00	0.000346	2.12	1202.54	4529.71	0.15
E115-00-00_0008	29455.4	2PCT_50yr	1280.00	82.14	94.27	88.76	94.31	0.000316	2.08	1529.47	4656.44	0.15
E115-00-00_0008	29455.4	1PCT_100yr	1450.00	82.14	94.47	89.14	94.51	0.000309	2.09	1737.51	4732.54	0.15
E115-00-00_0008	29360.2	10PCT_10yr	1110.00	82.12	93.93	88.45	93.96	0.000241	1.73	1718.43	4219.43	0.13
E115-00-00_0008	29360.2	2PCT_50yr	1320.00	82.12	94.25	88.97	94.28	0.000234	1.75	2052.44	4585.85	0.13
E115-00-00_0008	29360.2	1PCT_100yr	1500.00	82.12	94.45	89.38	94.48	0.000241	1.81	2275.04	4658.38	0.13
E115-00-00_0008	29314.2		Bridge									
E115-00-00_0008	29268.2	10PCT_10yr	1110.00	82.12	93.62	88.45	93.66	0.000338	2.00	1484.67	3322.48	0.15
E115-00-00_0008	29268.2	2PCT_50yr	1320.00	82.12	94.03	88.97	94.06	0.000280	1.88	1910.72	4432.43	0.14
E115-00-00_0008	29268.2	1PCT_100yr	1500.00	82.12	94.26	89.37	94.29	0.000279	1.91	2154.83	4587.74	0.14
E115-00-00_0008	29137.9	10PCT_10yr	1110.00	82.04	93.46	88.38	93.56	0.000930	2.89	747.48	3184.42	0.20
E115-00-00_0008	29137.9	2PCT_50yr	1320.00	82.04	93.92	88.88	93.99	0.000750	2.68	1122.09	4169.12	0.18
E115-00-00_0008	29137.9	1PCT_100yr	1500.00	82.04	94.15	89.27	94.22	0.000719	2.68	1350.26	4547.27	0.18
E115-00-00_0008	28685.1	10PCT_10yr	1110.00	81.76	92.78	88.09	92.99	0.001745	3.78	420.97	2324.45	0.27
E115-00-00_0008	28685.1	2PCT_50yr	1320.00	81.76	93.43	88.61	93.56	0.001207	3.33	960.12	4141.48	0.23
E115-00-00_0008	28685.1	1PCT_100yr	1500.00	81.76	93.78	89.01	93.86	0.000861	2.92	1448.98	4433.46	0.20
E115-00-00_0008	28586.7	10PCT_10yr	1140.00	81.70	92.66	88.11	92.85	0.001057	3.69	673.34	3486.38	0.26
E115-00-00_0008	28586.7	2PCT_50yr	1350.00	81.70	93.38	88.61	93.46	0.000562	2.84	1443.47	4136.52	0.20
E115-00-00_0008	28586.7	1PCT_100yr	1530.00	81.70	93.73	89.01	93.79	0.000440	2.60	1896.69	4406.00	0.17
E115-00-00_0008	28566.0		Bridge									
E115-00-00_0008	28545.6	10PCT_10yr	1140.00	81.66	92.33	88.07	92.58	0.001445	4.21	432.33	2861.03	0.31
E115-00-00_0008	28545.6	2PCT_50yr	1350.00	81.66	93.22	88.57	93.32	0.000676	3.09	1281.24	4043.15	0.21
E115-00-00_0008	28545.6	1PCT_100yr	1530.00	81.66	93.66	88.97	93.72	0.000470	2.67	1824.53	4368.07	0.18
E115-00-00_0008	28447.5	10PCT_10yr	1140.00	81.52	92.18	87.99	92.43	0.001458	4.22	409.67	1930.54	0.31
E115-00-00_0008	28447.5	2PCT_50yr	1350.00	81.52	93.08	88.50	93.23	0.000866	3.49	943.86	3492.17	0.24
E115-00-00_0008	28447.5	1PCT_100yr	1530.00	81.52	93.56	88.90	93.66	0.000629	3.11	1508.80	4417.60	0.21
E115-00-00_0008	28126.	10PCT_10yr	1140.00	81.07	91.54	87.74	91.89	0.001961	4.77	261.67	2132.03	0.35
E115-00-00_0008	28126.	2PCT_50yr	1350.00	81.07	92.65	88.25	92.89	0.001281	4.19	608.12	4499.35	0.29
E115-00-00_0008	28126.	1PCT_100yr	1530.00	81.07	93.33	88.65	93.45	0.000706	3.33	1192.21	4916.08	0.22
E115-00-00_0008	28025.6	10PCT_10yr	1200.00	80.93	91.21	87.81	91.64	0.002493	5.28	227.27	1350.00	0.40
E115-00-00_0008	28025.6	2PCT_50yr	1400.00	80.93	92.52	88.28	92.75	0.001287	4.18	688.36	4381.04	0.29
E115-00-00_0008	28025.6	1PCT_100yr	1600.00	80.93	93.27	88.72	93.38	0.000689	3.29	1290.70	4866.36	0.22
E115-00-00_0008	28003.6		Bridge									
E115-00-00_0008	27981.6	10PCT_10yr	1200.00	80.93	90.70	87.81	91.23	0.005004	5.80	207.01	834.64	0.44
E115-00-00_0008	27981.6	2PCT_50yr	1400.00	80.93	91.50	88.28	92.03	0.004622	5.85	239.20	1874.34	0.43
E115-00-00_0008	27981.6	1PCT_100yr	1600.00	80.93	92.58	88.72	92.83	0.002268	4.47	725.18	4502.56	0.31
E115-00-00_0008	27878.3	10PCT_10yr	1200.00	80.89	90.28	87.07	90.72	0.004076	5.36	223.92	646.77	0.41
E115-00-00_0008	27878.3	2PCT_50yr	1400.00	80.89	91.11	87.54	91.56	0.003716	5.38	260.25	1320.70	0.40
E115-00-00_0008	27878.3	1PCT_100yr	1600.00	80.89	92.16	87.98	92.53	0.002833	5.01	403.15	3998.97	0.35
E115-00-00_0008	27792.7	10PCT_10yr	1200.00	80.86	90.07	86.46	90.45	0.002206	4.92	243.93	562.80	0.38
E115-00-00_0008	27792.7	2PCT_50yr	1400.00	80.86	90.93	86.94	91.30	0.002065	4.88	286.66	1430.99	0.37
E115-00-00_0008	27792.7	1PCT_100yr	1600.00	80.86	92.02	87.37	92.34	0.001573	4.51	410.68	3830.32	0.33
E115-00-00_0008	27694.0	10PCT_10yr	1200.00	80.77	90.07	85.64	90.36	0.000218	4.35	276.03	742.32	0.32
E115-00-00_0008	27694.0	2PCT_50yr	1400.00	80.77	90.92	86.09	91.22	0.000202	4.39	319.27	1353.39	0.31
E115-00-00_0008	27694.0	1PCT_100yr	1600.00	80.77	92.00	86.52	92.28	0.000168	4.23	379.14	3248.02	0.29
E115-00-00_0008	27634.0		Culvert									
E115-00-00_0008	27574.0	10PCT_10yr	1200.00	80.50	89.56	85.37	90.08	0.000232	5.75	208.53	668.91	0.35
E115-00-00_0008	27574.0	2PCT_50yr	1400.00	80.50	90.32	85.82	90.65	0.000234	4.64	301.88	1006.29	0.34
E115-00-00_0008	27574.0	1PCT_100yr	1600.00	80.50	91.09	86.25	91.43	0.000218	4.67	342.86	2037.61	0.33
E115-00-00_0008	27466.2	10PCT_10yr	1200.00	80.27	89.60	85.57	89.95	0.000725	4.77	251.78	138.34	0.35
E115-00-00_0008	27466.2	2PCT_50yr	1400.00	80.27	90.20	86.07	90.59	0.000757	5.03	278.22	291.97	0.36
E115-00-00_0008	27466.2	1PCT_100yr	1600.00	80.27	90.97	86.51	91.37	0.000700	5.08	316.87	1389.82	0.35
E115-00-00_0008	26924.0	10PCT_10yr	1240.00	79.12	88.12	86.45	89.16	0.003187	8.17	151.77	31.30	0.65
E115-00-00_0008	26924.0	2PCT_50yr	1420.00	79.12	88.72	86.95	89.79	0.003052	8.30	171.19	33.71	0.65

E115-00-00 Revised Existing
HEC-RAS Output

HEC-RAS Plan: Rev Ext River: E115-00-00 Reach: E115-00-00_0008 (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
E115-00-00_0008	26924.0	1PCT_100yr	1660.00	79.12	89.57	87.58	90.62	0.002725	8.25	201.32	37.15	0.62
E115-00-00_0008	26768.1	10PCT_10yr	1240.00	78.94	87.92	86.28	88.82	0.001063	7.63	162.41	36.12	0.63
E115-00-00_0008	26768.1	2PCT_50yr	1420.00	78.94	88.55	86.75	89.45	0.000974	7.62	186.23	39.29	0.62
E115-00-00_0008	26768.1	1PCT_100yr	1660.00	78.94	89.45	87.30	90.31	0.000821	7.42	223.76	100.65	0.58
E115-00-00_0008	26731.1		Bridge									
E115-00-00_0008	26694.1	10PCT_10yr	1240.00	78.79	87.37	86.13	88.45	0.001343	8.35	148.47	34.13	0.71
E115-00-00_0008	26694.1	2PCT_50yr	1420.00	78.79	87.97	86.60	89.05	0.001243	8.37	169.68	37.12	0.69
E115-00-00_0008	26694.1	1PCT_100yr	1660.00	78.79	88.82	87.15	89.86	0.001057	8.16	203.34	73.38	0.65
E115-00-00_0008	26592.7	10PCT_10yr	1240.00	78.56	87.26	85.87	88.32	0.001250	8.27	150.01	33.43	0.69
E115-00-00_0008	26592.7	2PCT_50yr	1420.00	78.56	87.85	86.34	88.92	0.001171	8.32	170.69	36.24	0.68
E115-00-00_0008	26592.7	1PCT_100yr	1660.00	78.56	88.71	86.93	89.74	0.001008	8.15	203.68	118.30	0.64
E115-00-00_0008	26206.4	10PCT_10yr	1260.00	77.59	86.79	85.04	87.85	0.001157	8.28	152.09	30.25	0.65
E115-00-00_0008	26206.4	2PCT_50yr	1440.00	77.59	87.38	85.57	88.49	0.001116	8.43	170.75	32.48	0.65
E115-00-00_0008	26206.4	1PCT_100yr	1700.00	77.59	88.19	86.24	89.33	0.001052	8.58	198.11	35.49	0.64
E115-00-00_0008	25817.	10PCT_10yr	1260.00	77.02	86.41	84.47	87.40	0.001047	7.97	158.04	99.29	0.62
E115-00-00_0008	25817.	2PCT_50yr	1440.00	77.02	87.03	84.98	88.05	0.001002	8.09	177.90	131.06	0.62
E115-00-00_0008	25817.	1PCT_100yr	1700.00	77.02	87.87	85.65	88.91	0.000935	8.21	207.14	428.22	0.61
E115-00-00_0008	25717.2	10PCT_10yr	1260.00	76.88	86.37	84.25	87.25	0.000916	7.54	167.21	32.56	0.59
E115-00-00_0008	25717.2	2PCT_50yr	1440.00	76.88	86.99	84.75	87.90	0.000881	7.65	188.29	35.20	0.58
E115-00-00_0008	25717.2	1PCT_100yr	1700.00	76.88	87.84	85.38	88.77	0.000823	7.74	219.68	38.79	0.57
E115-00-00_0008	25700.7		Bridge									
E115-00-00_0008	25676.2	10PCT_10yr	1260.00	76.80	85.72	84.18	86.82	0.001219	8.43	149.48	30.17	0.67
E115-00-00_0008	25676.2	2PCT_50yr	1440.00	76.80	86.26	84.67	87.42	0.001213	8.66	166.29	32.44	0.67
E115-00-00_0008	25676.2	1PCT_100yr	1700.00	76.80	87.05	85.30	88.25	0.001148	8.80	193.24	35.79	0.67
E115-00-00_0008	25569.5	10PCT_10yr	1260.00	76.57	85.43	84.02	86.65	0.001385	8.87	141.98	28.98	0.71
E115-00-00_0008	25569.5	2PCT_50yr	1440.00	76.57	85.93	84.54	87.23	0.001393	9.18	156.93	30.85	0.72
E115-00-00_0008	25569.5	1PCT_100yr	1700.00	76.57	86.73	85.20	88.07	0.001299	9.30	182.88	33.86	0.70
E115-00-00_0008	25168.3	10PCT_10yr	1260.00	75.75	85.07	83.22	86.09	0.001094	8.12	155.11	30.46	0.63
E115-00-00_0008	25168.3	2PCT_50yr	1440.00	75.75	85.56	83.73	86.67	0.001114	8.44	170.63	32.28	0.65
E115-00-00_0008	25168.3	1PCT_100yr	1700.00	75.75	86.41	84.40	87.54	0.001031	8.53	199.29	35.41	0.63
E115-00-00_0008	25073.7	10PCT_10yr	1320.00	75.49	85.09	83.23	85.88	0.000861	7.14	184.94	38.37	0.57
E115-00-00_0008	25073.7	2PCT_50yr	1480.00	75.49	85.62	83.57	86.42	0.000803	7.19	205.78	40.21	0.56
E115-00-00_0008	25073.7	1PCT_100yr	1790.00	75.49	86.45	84.17	87.31	0.000761	7.44	240.65	43.10	0.55
E115-00-00_0008	25046.2		Bridge									
E115-00-00_0008	25018.7	10PCT_10yr	1320.00	75.41	83.44	83.16	85.06	0.002357	10.21	129.25	32.96	0.91
E115-00-00_0008	25018.7	2PCT_50yr	1480.00	75.41	85.03	83.50	86.01	0.001070	7.97	185.72	38.44	0.64
E115-00-00_0008	25018.7	1PCT_100yr	1790.00	75.41	85.77	84.09	86.84	0.001038	8.32	215.20	41.01	0.64
E115-00-00_0008	24912.8	10PCT_10yr	1320.00	75.09	83.51	82.58	84.61	0.001454	8.44	156.38	38.39	0.74
E115-00-00_0008	24912.8	2PCT_50yr	1480.00	75.09	85.09	82.91	85.77	0.000689	6.66	222.38	45.16	0.53
E115-00-00_0008	24912.8	1PCT_100yr	1790.00	75.09	85.84	83.48	86.59	0.000670	6.94	257.87	48.42	0.53
E115-00-00_0008	24695.0	10PCT_10yr	1350.00	74.43	83.38	81.98	84.28	0.001071	7.61	177.39	40.67	0.64
E115-00-00_0008	24695.0	2PCT_50yr	1500.00	74.43	85.05	82.28	85.60	0.000503	5.96	251.56	47.85	0.46
E115-00-00_0008	24695.0	1PCT_100yr	1850.00	74.43	85.79	82.94	86.43	0.000528	6.42	288.02	51.02	0.48
E115-00-00_0008	24323.	10PCT_10yr	1350.00	74.03	82.96	81.58	83.87	0.001079	7.63	176.90	40.61	0.64
E115-00-00_0008	24323.	2PCT_50yr	1500.00	74.03	84.91	81.88	85.41	0.000440	5.68	264.19	48.97	0.43
E115-00-00_0008	24323.	1PCT_100yr	1850.00	74.03	85.64	82.54	86.23	0.000467	6.14	303.30	67.58	0.45
E115-00-00_0008	24223.1	10PCT_10yr	1350.00	73.92	83.04	80.89	83.63	0.000628	6.18	218.62	47.27	0.51
E115-00-00_0008	24223.1	2PCT_50yr	1500.00	73.92	84.96	81.18	85.30	0.000276	4.72	317.78	56.23	0.35
E115-00-00_0008	24223.1	1PCT_100yr	1850.00	73.92	85.69	81.80	86.10	0.000297	5.13	360.55	80.21	0.37
E115-00-00_0008	24166.1		Bridge									
E115-00-00_0008	24109.1	10PCT_10yr	1350.00	73.71	82.99	80.68	83.54	0.000571	5.97	226.21	48.02	0.48
E115-00-00_0008	24109.1	2PCT_50yr	1500.00	73.71	84.55	80.97	84.92	0.000305	4.89	306.58	55.29	0.37
E115-00-00_0008	24109.1	1PCT_100yr	1850.00	73.71	85.02	81.59	85.50	0.000368	5.55	333.57	57.53	0.41
E115-00-00_0008	24010.9	10PCT_10yr	1350.00	73.50	82.94	80.68	83.49	0.000571	6.00	1019.96	772.90	0.48
E115-00-00_0008	24010.9	2PCT_50yr	1500.00	73.50	84.54	80.96	84.86	0.000277	4.70	2686.18	1258.38	0.35
E115-00-00_0008	24010.9	1PCT_100yr	1850.00	73.50	85.03	81.65	85.43	0.000324	5.25	3343.02	1413.51	0.38
E115-00-00_0008	23509.6	10PCT_10yr	1950.00	72.42	81.46	80.67	82.91	0.001588	9.66	201.81	44.24	0.80
E115-00-00_0008	23509.6	2PCT_50yr	2600.00	72.42	83.16	81.66	84.47	0.001103	9.18	283.21	51.52	0.69

E115-00-00 Revised Existing
HEC-RAS Output

HEC-RAS Plan: Rev Ext River: E115-00-00 Reach: E115-00-00_0008 (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
E115-00-00_0008	23509.6	1PCT_100yr	2900.00	72.42	83.65	82.07	85.02	0.001076	9.38	309.25	53.64	0.69
E115-00-00_0008	23119.4	10PCT_10yr	1950.00	71.53	81.15	79.79	82.28	0.001125	8.54	228.44	46.75	0.68
E115-00-00_0008	23119.4	2PCT_50yr	2600.00	71.53	83.01	80.77	84.02	0.000770	8.06	322.60	54.69	0.58
E115-00-00_0008	23119.4	1PCT_100yr	2900.00	71.53	83.51	81.18	84.58	0.000760	8.27	350.75	57.36	0.59
E115-00-00_0008	22950	10PCT_10yr	1950.00	71.14	81.22	79.02	81.94	0.000622	6.80	286.93	54.01	0.52
E115-00-00_0008	22950	2PCT_50yr	2600.00	71.14	83.08	79.90	83.76	0.000448	6.62	392.71	60.10	0.46
E115-00-00_0008	22950	1PCT_100yr	2900.00	71.14	83.58	80.27	84.31	0.000447	6.85	423.83	66.76	0.46
E115-00-00_0008	22930.4		Bridge									
E115-00-00_0008	22903.4	10PCT_10yr	1950.00	70.95	81.12	78.84	81.82	0.000591	6.68	291.94	54.31	0.51
E115-00-00_0008	22903.4	2PCT_50yr	2600.00	70.95	82.95	79.69	83.62	0.000436	6.56	396.63	60.30	0.45
E115-00-00_0008	22903.4	1PCT_100yr	2900.00	70.95	83.33	80.06	84.07	0.000460	6.91	419.83	62.81	0.47
E115-00-00_0008	22749.1	10PCT_10yr	1950.00	70.72	80.84	78.70	81.67	0.000736	7.31	266.91	50.55	0.56
E115-00-00_0008	22749.1	2PCT_50yr	2600.00	70.72	82.75	79.68	83.51	0.000526	7.00	371.60	58.95	0.49
E115-00-00_0008	22749.1	1PCT_100yr	2900.00	70.72	83.12	80.07	83.96	0.000560	7.37	393.23	99.43	0.51
E115-00-00_0008	22580.1	10PCT_10yr	1950.00	70.49	80.77	78.46	81.55	0.000664	7.07	275.98	51.23	0.54
E115-00-00_0008	22580.1	2PCT_50yr	2600.00	70.49	82.71	79.45	83.42	0.000458	6.78	397.88	105.14	0.46
E115-00-00_0008	22580.1	1PCT_100yr	2900.00	70.49	83.07	79.86	83.86	0.000476	7.16	441.93	350.27	0.48
E115-00-00_0008	22469.6	10PCT_10yr	1950.00	70.30	80.72	78.30	81.46	0.000632	6.92	281.95	51.84	0.52
E115-00-00_0008	22469.6	2PCT_50yr	2600.00	70.30	82.67	79.28	83.36	0.000455	6.63	391.89	200.55	0.46
E115-00-00_0008	22469.6	1PCT_100yr	2900.00	70.30	83.02	79.69	83.79	0.000492	7.01	423.38	416.57	0.48
E115-00-00_0008	22442.1		Bridge									
E115-00-00_0008	22414.6	10PCT_10yr	1950.00	70.00	80.72	77.99	81.38	0.000544	6.55	297.66	53.16	0.49
E115-00-00_0008	22414.6	2PCT_50yr	2600.00	70.00	82.55	78.97	83.20	0.000423	6.46	403.55	231.83	0.44
E115-00-00_0008	22414.6	1PCT_100yr	2900.00	70.00	83.13	79.38	83.78	0.000410	6.53	635.48	1100.21	0.44
E115-00-00_0008	22256.2	10PCT_10yr	1950.00	69.71	80.57	77.93	81.28	0.000581	6.76	288.64	51.22	0.50
E115-00-00_0008	22256.2	2PCT_50yr	2600.00	69.71	82.43	78.93	83.12	0.000447	6.65	391.20	58.94	0.45
E115-00-00_0008	22256.2	1PCT_100yr	2900.00	69.71	82.98	79.34	83.70	0.000433	6.80	514.50	805.67	0.45
E115-00-00_0008	21928.0	10PCT_10yr	1950.00	69.12	80.48	77.34	81.08	0.000458	6.20	314.77	53.29	0.45
E115-00-00_0008	21928.0	2PCT_50yr	2600.00	69.12	82.37	78.34	82.96	0.000354	6.15	427.64	142.10	0.41
E115-00-00_0008	21928.0	1PCT_100yr	2900.00	69.12	82.94	78.75	83.54	0.000332	6.26	691.11	1446.88	0.40
E115-00-00_0008	20792.6	10PCT_10yr	1950.00	67.71	80.27	75.70	80.63	0.000237	4.81	405.34	61.61	0.33
E115-00-00_0008	20792.6	2PCT_50yr	2600.00	67.71	82.38	76.66	82.63	0.000137	4.28	1743.42	1935.64	0.26
E115-00-00_0008	20792.6	1PCT_100yr	2900.00	67.71	83.02	77.08	83.22	0.000111	4.05	2475.92	2163.18	0.24
E115-00-00_0008	20146.5	10PCT_10yr	3230.00	67.17	78.85	77.11	80.20	0.001012	9.34	345.90	58.29	0.68
E115-00-00_0008	20146.5	2PCT_50yr	4690.00	67.17	80.69	78.75	82.26	0.000883	10.12	610.40	886.33	0.66
E115-00-00_0008	20146.5	1PCT_100yr	5430.00	67.17	80.91	79.41	82.83	0.001044	11.23	832.37	1728.15	0.72
E115-00-00_0008	18986.6	10PCT_10yr	3327.00	65.74	78.01	75.66	79.14	0.000740	8.51	399.98	110.90	0.59
E115-00-00_0008	18986.6	2PCT_50yr	4847.00	65.74	81.05	77.26	81.46	0.000226	6.07	3782.36	3795.83	0.35
E115-00-00_0008	18986.6	1PCT_100yr	5616.00	65.74	81.53	78.04	81.91	0.000213	6.08	4837.70	4498.04	0.34
E115-00-00_0008	18689.2	10PCT_10yr	3327.00	65.01	77.98	74.93	78.88	0.000523	7.66	489.16	324.91	0.50
E115-00-00_0008	18689.2	2PCT_50yr	4847.00	65.01	81.10	76.54	81.35	0.000140	5.03	5057.90	5524.49	0.28
E115-00-00_0008	18689.2	1PCT_100yr	5616.00	65.01	81.56	77.31	81.80	0.000136	5.11	5965.90	5686.31	0.27
E115-00-00_0008	18584.6	10PCT_10yr	3420.00	64.84	77.63	74.99	78.76	0.000711	8.51	401.89	158.16	0.58
E115-00-00_0008	18584.6	2PCT_50yr	4930.00	64.84	80.92	76.64	81.30	0.000223	5.69	3371.56	4671.31	0.36
E115-00-00_0008	18584.6	1PCT_100yr	5670.00	64.84	81.37	77.26	81.74	0.000218	5.76	4053.03	5430.90	0.35
E115-00-00_0008	18556.1		Bridge									
E115-00-00_0008	18527.6	10PCT_10yr	3420.00	64.84	77.39	74.99	78.60	0.000785	8.82	387.79	102.79	0.60
E115-00-00_0008	18527.6	2PCT_50yr	4930.00	64.84	78.24	76.64	80.14	0.001113	11.11	551.34	399.58	0.77
E115-00-00_0008	18527.6	1PCT_100yr	5670.00	64.84	78.07	77.60	80.74	0.001605	13.16	504.36	339.41	0.89
E115-00-00_0008	18433.3	10PCT_10yr	3420.00	64.56	77.46	74.95	78.39	0.000652	7.73	448.02	212.99	0.71
E115-00-00_0008	18433.3	2PCT_50yr	4930.00	64.56	78.60	77.51	79.62	0.000756	8.24	1004.35	1034.10	0.66
E115-00-00_0008	18433.3	1PCT_100yr	5670.00	64.56	78.63	78.11	79.95	0.000981	9.39	1031.23	1061.34	0.75
E115-00-00_0008	17975.5	10PCT_10yr	3920.00	63.20	77.09	74.14	78.10	0.000597	8.06	500.64	308.18	0.65
E115-00-00_0008	17975.5	2PCT_50yr	5370.00	63.20	78.19	75.60	79.29	0.000638	8.62	1121.11	1100.55	0.62
E115-00-00_0008	17975.5	1PCT_100yr	5940.00	63.20	78.18	77.10	79.54	0.000785	9.56	1114.22	1086.54	0.69
E115-00-00_0008	17701.5	10PCT_10yr	3920.00	62.81	77.21	73.02	77.55	0.004182	4.76	900.54	1322.67	0.41
E115-00-00_0008	17701.5	2PCT_50yr	5370.00	62.81	78.45	74.17	78.73	0.002699	4.52	1620.18	2838.18	0.34
E115-00-00_0008	17701.5	1PCT_100yr	5940.00	62.81	78.82	74.59	78.90	0.001112	3.03	5138.88	3867.68	0.22

E115-00-00 Revised Existing
HEC-RAS Output

HEC-RAS Plan: Rev Ext River: E115-00-00 Reach: E115-00-00_0008 (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
E115-00-00_0008	17296.9	10PCT_10yr	3920.00	62.24	75.72	73.19	76.89	0.000724	8.70	450.41	191.12	0.75
E115-00-00_0008	17296.9	2PCT_50yr	5370.00	62.24	76.57	74.69	78.03	0.000913	9.73	577.30	473.07	0.80
E115-00-00_0008	17296.9	1PCT_100yr	5940.00	62.24	76.84	76.84	78.36	0.000955	9.98	850.36	724.32	0.80
E115-00-00_0008	16862.9	10PCT_10yr	3920.00	61.62	76.08	71.97	76.50	0.000232	5.21	1001.06	540.10	0.37
E115-00-00_0008	16862.9	2PCT_50yr	5370.00	61.62	77.02	73.24	77.55	0.000277	5.99	1691.89	1149.33	0.40
E115-00-00_0008	16862.9	1PCT_100yr	5940.00	61.62	77.15	73.65	77.76	0.000317	6.45	1822.03	1357.93	0.42
E115-00-00_0008	16274.8	10PCT_10yr	3920.00	60.79	75.86	71.59	76.35	0.000267	6.07	1993.15	1133.22	0.37
E115-00-00_0008	16274.8	2PCT_50yr	5370.00	60.79	76.92	73.15	77.39	0.000254	6.40	3243.27	1821.05	0.37
E115-00-00_0008	16274.8	1PCT_100yr	5940.00	60.79	77.03	73.82	77.57	0.000291	6.90	3379.96	2129.58	0.39
E115-00-00_0008	15262.0	10PCT_10yr	4320.00	59.76	75.71	71.06	76.09	0.000189	5.57	3216.32	1882.21	0.32
E115-00-00_0008	15262.0	2PCT_50yr	5700.00	59.76	76.84	72.47	77.14	0.000156	5.46	5542.22	3271.42	0.30
E115-00-00_0008	15262.0	1PCT_100yr	6140.00	59.76	76.94	73.09	77.28	0.000173	5.77	5824.14	3565.24	0.31
E115-00-00_0008	14506.7	10PCT_10yr	4320.00	58.76	75.70	70.06	75.93	0.000112	4.58	4412.49	2804.31	0.25
E115-00-00_0008	14506.7	2PCT_50yr	5700.00	58.76	76.79	71.37	77.00	0.000102	4.68	6764.95	4045.37	0.24
E115-00-00_0008	14506.7	1PCT_100yr	6140.00	58.76	76.93	71.70	77.14	0.000105	4.78	9211.07	4114.86	0.25
E115-00-00_0008	14412.3	10PCT_10yr	4320.00	58.64	75.52	70.45	75.88	0.000184	5.60	3375.62	2220.78	0.31
E115-00-00_0008	14412.3	2PCT_50yr	5700.00	58.64	76.73	71.90	76.98	0.000138	5.22	7367.06	3710.58	0.27
E115-00-00_0008	14412.3	1PCT_100yr	6140.00	58.64	76.85	74.14	77.11	0.000148	5.44	7790.07	3763.47	0.28
E115-00-00_0008	14355.3		Bridge									
E115-00-00_0008	14289.1	10PCT_10yr	4320.00	58.38	75.13	70.17	75.60	0.000225	6.13	2786.97	1766.84	0.34
E115-00-00_0008	14289.1	2PCT_50yr	5700.00	58.38	76.40	71.62	76.73	0.000171	5.77	4985.77	3556.25	0.30
E115-00-00_0008	14289.1	1PCT_100yr	6140.00	58.38	76.47	72.02	76.84	0.000189	6.09	5147.43	3596.57	0.32
E115-00-00_0008	14004.3	10PCT_10yr	4320.00	58.16	75.12		75.50	0.000165	5.45	2950.25	1794.74	0.30
E115-00-00_0008	14004.3	2PCT_50yr	5700.00	58.16	76.37		76.67	0.000138	5.38	6055.70	3204.17	0.28
E115-00-00_0008	14004.3	1PCT_100yr	6140.00	58.16	76.44		76.78	0.000153	5.68	6302.69	3331.18	0.29
E115-00-00_0008	13336.3	10PCT_10yr	4559.00	57.64	75.07	68.99	75.37	0.000133	5.05	4065.28	2646.21	0.27
E115-00-00_0008	13336.3	2PCT_50yr	5899.00	57.64	76.34	70.38	76.57	0.000106	4.85	6287.71	4183.92	0.25
E115-00-00_0008	13336.3	1PCT_100yr	6256.00	57.64	76.41	70.76	76.66	0.000115	5.06	6424.43	4535.83	0.26
E115-00-00_0008	12740.2	10PCT_10yr	4559.00	57.37	74.82	68.72	75.27	0.000174	5.78	1670.93	2567.60	0.31
E115-00-00_0008	12740.2	2PCT_50yr	5899.00	57.37	75.94	70.14	76.46	0.000186	6.38	2117.54	4139.71	0.32
E115-00-00_0008	12740.2	1PCT_100yr	6256.00	57.37	75.96	70.48	76.54	0.000208	6.75	2126.43	4156.49	0.34
E115-00-00_0008	12552.6	10PCT_10yr	4559.00	57.28	74.73	68.12	75.22	0.000162	5.70	932.40	2380.56	0.30
E115-00-00_0008	12552.6	2PCT_50yr	5899.00	57.28	75.80	69.49	76.39	0.000182	6.44	4115.90	3353.84	0.33
E115-00-00_0008	12552.6	1PCT_100yr	6256.00	57.28	75.80	69.80	76.46	0.000205	6.82	4116.19	3354.17	0.35
E115-00-00_0008	12532.3		Bridge									
E115-00-00_0008	12512.0	10PCT_10yr	4559.00	57.28	73.91	68.13	74.50	0.000215	6.24	830.67	1778.91	0.35
E115-00-00_0008	12512.0	2PCT_50yr	5899.00	57.28	75.29	69.45	76.01	0.000226	6.97	1000.95	2748.05	0.36
E115-00-00_0008	12512.0	1PCT_100yr	6256.00	57.28	75.38	69.77	76.17	0.000248	7.32	1011.80	2852.30	0.38
E115-00-00_0008	12473.4	10PCT_10yr	4559.00	56.96	73.62	68.35	74.43	0.000299	7.22	679.73	1718.05	0.40
E115-00-00_0008	12473.4	2PCT_50yr	5899.00	56.96	75.02	69.78	75.93	0.000300	7.88	4002.50	3173.02	0.41
E115-00-00_0008	12473.4	1PCT_100yr	6256.00	56.96	75.07	70.12	76.08	0.000332	8.31	4085.71	3193.46	0.43
E115-00-00_0008	12430.4		Bridge									
E115-00-00_0008	12387.4	10PCT_10yr	4559.00	56.74	72.71	66.45	73.10	0.000585	5.05	906.41	600.66	0.30
E115-00-00_0008	12387.4	2PCT_50yr	5899.00	56.74	74.07	67.57	74.57	0.000610	5.67	1047.11	2091.13	0.31
E115-00-00_0008	12387.4	1PCT_100yr	6256.00	56.74	74.39	67.84	74.92	0.000620	5.83	1079.72	2212.48	0.31
E115-00-00_0008	12246.2	10PCT_10yr	4550.00	56.53	71.83	67.53	72.84	0.000461	8.07	575.06	133.53	0.48
E115-00-00_0008	12246.2	2PCT_50yr	5850.00	56.53	73.14	68.91	74.29	0.000448	8.75	984.83	1231.62	0.49
E115-00-00_0008	12246.2	1PCT_100yr	6200.00	56.53	73.71	69.23	74.70	0.000377	8.33	1994.41	1635.51	0.45
E115-00-00_0008	11915.1	10PCT_10yr	4550.00	56.05	71.75	67.04	72.67	0.000394	7.70	622.59	280.42	0.45
E115-00-00_0008	11915.1	2PCT_50yr	5850.00	56.05	73.08	68.43	74.12	0.000386	8.35	1337.64	907.10	0.46
E115-00-00_0008	11915.1	1PCT_100yr	6200.00	56.05	73.61	68.75	74.57	0.000343	8.14	1918.53	1335.47	0.43
E115-00-00_0008	11812.3	10PCT_10yr	4540.00	55.90	71.73	66.87	72.62	0.000376	7.59	603.95	77.31	0.44
E115-00-00_0008	11812.3	2PCT_50yr	5660.00	55.90	73.06	68.07	74.05	0.000354	8.07	1204.63	855.11	0.44
E115-00-00_0008	11812.3	1PCT_100yr	6030.00	55.90	73.59	68.43	74.52	0.000321	7.93	1746.48	1141.40	0.42
E115-00-00_0008	11806.2		Bridge									
E115-00-00_0008	11752.8	10PCT_10yr	4540.00	55.82	71.59	66.79	72.49	0.000385	7.64	598.72	76.19	0.45
E115-00-00_0008	11752.8	2PCT_50yr	5660.00	55.82	72.61	67.99	73.73	0.000414	8.51	845.44	747.74	0.47
E115-00-00_0008	11752.8	1PCT_100yr	6030.00	55.82	72.90	68.36	74.07	0.000419	8.73	1076.76	820.91	0.48

E115-00-00 Revised Existing
HEC-RAS Output

HEC-RAS Plan: Rev Ext River: E115-00-00 Reach: E115-00-00_0008 (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
E115-00-00_0008	11652.	10PCT_10yr	4540.00	55.63	71.58	66.60	72.43	0.000354	7.43	737.73	356.73	0.43
E115-00-00_0008	11652.	2PCT_50yr	5660.00	55.63	72.68	67.80	73.59	0.000343	7.88	1556.53	1085.53	0.43
E115-00-00_0008	11652.	1PCT_100yr	6030.00	55.63	72.99	68.16	73.89	0.000335	7.95	1916.70	1261.69	0.43
E115-00-00_0008	11351.7	10PCT_10yr	4540.00	55.07	71.60	66.23	72.26	0.000363	6.65	1068.65	399.13	0.43
E115-00-00_0008	11351.7	2PCT_50yr	5660.00	55.07	72.75	67.44	73.41	0.000316	6.84	1763.06	818.57	0.41
E115-00-00_0008	11351.7	1PCT_100yr	6030.00	55.07	73.06	67.80	73.72	0.000306	6.88	2010.57	942.02	0.41
E115-00-00_0008	10368.6	10PCT_10yr	4530.00	54.01	71.35	65.07	71.97	0.000227	6.39	797.81	487.91	0.35
E115-00-00_0008	10368.6	2PCT_50yr	5530.00	54.01	72.55	66.14	73.15	0.000200	6.47	2152.31	1333.26	0.34
E115-00-00_0008	10368.6	1PCT_100yr	5900.00	54.01	72.88	66.51	73.47	0.000196	6.52	2549.85	1447.87	0.33
E115-00-00_0008	9371.10	10PCT_10yr	4530.00	53.04	71.37	64.09	71.73	0.000129	5.12	2064.69	861.90	0.27
E115-00-00_0008	9371.10	2PCT_50yr	5530.00	53.04	72.60	65.18	72.91	0.000108	5.03	3260.87	1266.62	0.25
E115-00-00_0008	9371.10	1PCT_100yr	5900.00	53.04	72.93	65.54	73.23	0.000106	5.06	3814.01	1530.87	0.25
E115-00-00_0008	9275.2	10PCT_10yr	4528.00	52.95	71.40	64.02	71.66	0.000311	4.47	1998.26	970.83	0.26
E115-00-00_0008	9275.2	2PCT_50yr	5523.00	52.95	72.65	65.13	72.83	0.000216	4.05	3359.16	1417.03	0.22
E115-00-00_0008	9275.2	1PCT_100yr	5888.00	52.95	72.99	65.49	73.15	0.000197	3.94	4010.81	1559.59	0.21
E115-00-00_0008	9239.2		Bridge									
E115-00-00_0008	9203.2	10PCT_10yr	4528.00	52.93	70.93	63.99	71.26	0.000411	4.97	1614.34	798.20	0.29
E115-00-00_0008	9203.2	2PCT_50yr	5523.00	52.93	72.54	65.12	72.73	0.000228	4.14	3241.02	1387.66	0.22
E115-00-00_0008	9203.2	1PCT_100yr	5888.00	52.93	72.91	65.47	73.07	0.000205	4.01	3918.51	1548.02	0.21
E115-00-00_0008	9096.10	10PCT_10yr	4528.00	52.78	70.65		71.17	0.000184	5.94	1416.88	804.16	0.32
E115-00-00_0008	9096.10	2PCT_50yr	5523.00	52.78	72.20		72.63	0.000142	5.71	3013.19	1287.91	0.29
E115-00-00_0008	9096.10	1PCT_100yr	5888.00	52.78	72.55		72.98	0.000139	5.75	3486.82	1414.68	0.28
E115-00-00_0008	8157.3	10PCT_10yr	6375.00	51.48	69.89	64.50	70.89	0.000322	8.13	1106.82	1687.49	0.42
E115-00-00_0008	8157.3	2PCT_50yr	8383.00	51.48	71.01	66.20	72.32	0.000384	9.44	1600.12	2097.54	0.47
E115-00-00_0008	8157.3	1PCT_100yr	9218.00	51.48	71.05	66.78	72.62	0.000458	10.33	1619.71	2111.14	0.51
E115-00-00_0008	7902.6	10PCT_10yr	6375.00	51.29	69.82	64.32	70.81	0.000314	8.08	928.29	1503.74	0.42
E115-00-00_0008	7902.6	2PCT_50yr	8383.00	51.29	71.22	66.02	72.11	0.000279	8.21	5091.11	2523.83	0.40
E115-00-00_0008	7902.6	1PCT_100yr	9218.00	51.29	71.33	66.59	72.36	0.000321	8.87	5357.84	2635.28	0.43
E115-00-00_0008	7751.6	10PCT_10yr	6375.00	51.17	69.92	64.22	70.61	0.000296	6.65	960.24	1296.24	0.47
E115-00-00_0008	7751.6	2PCT_50yr	8383.00	51.17	71.40	65.95	71.82	0.000224	5.82	4447.39	1769.35	0.37
E115-00-00_0008	7751.6	1PCT_100yr	9218.00	51.17	71.54	67.26	72.02	0.000253	6.19	4710.94	1821.88	0.39
E115-00-00_0008	7598.1		Bridge									
E115-00-00_0008	7444.6	10PCT_10yr	6390.00	51.14	67.60	64.20	69.10	0.000643	9.83	649.86	98.48	0.67
E115-00-00_0008	7444.6	2PCT_50yr	8420.00	51.14	68.72	65.93	70.51	0.000755	10.74	784.50	517.30	0.80
E115-00-00_0008	7444.6	1PCT_100yr	9250.00	51.14	68.92	67.24	70.94	0.000852	11.38	813.00	742.89	0.85
E115-00-00_0008	7330.4	10PCT_10yr	6390.00	50.86	67.49	64.00	69.02	0.000624	9.97	716.09	392.31	0.57
E115-00-00_0008	7330.4	2PCT_50yr	8420.00	50.86	68.07	65.71	70.29	0.000852	12.13	1142.81	797.68	0.67
E115-00-00_0008	7330.4	1PCT_100yr	9250.00	50.86	68.66	66.32	70.81	0.000791	12.13	1711.95	1152.94	0.65
E115-00-00_0008	6852.1	10PCT_10yr	6400.00	49.67	67.60	62.82	68.65	0.000376	8.43	1299.77	651.75	0.45
E115-00-00_0008	6852.1	2PCT_50yr	8450.00	49.67	68.30	64.55	69.76	0.000494	10.08	1834.90	981.62	0.52
E115-00-00_0008	6852.1	1PCT_100yr	9270.00	49.67	68.93	65.20	70.30	0.000454	10.01	2578.55	1288.65	0.51
E115-00-00_0008	6427.9	10PCT_10yr	6400.00	49.29	67.46	62.44	68.49	0.000352	8.28	1409.25	862.35	0.44
E115-00-00_0008	6427.9	2PCT_50yr	8450.00	49.29	68.15	64.17	69.54	0.000458	9.84	2063.06	1030.57	0.51
E115-00-00_0008	6427.9	1PCT_100yr	9270.00	49.29	68.80	64.75	70.09	0.000420	9.77	2810.38	1302.98	0.49
E115-00-00_0008	6273.6	10PCT_10yr	6440.00	49.15	67.44	62.06	68.28	0.000734	7.82	1304.90	803.38	0.44
E115-00-00_0008	6273.6	2PCT_50yr	8530.00	49.15	68.15	63.83	69.24	0.000909	9.13	1966.38	1015.21	0.50
E115-00-00_0008	6273.6	1PCT_100yr	9340.00	49.15	68.85	64.45	69.79	0.000767	8.75	2749.20	1231.54	0.46
E115-00-00_0008	6202.3		Bridge									
E115-00-00_0008	6116.7	10PCT_10yr	6440.00	49.15	65.62	62.04	67.15	0.001066	9.93	648.43	76.27	0.60
E115-00-00_0008	6116.7	2PCT_50yr	8530.00	49.15	67.31	63.80	68.97	0.001352	10.51	1256.65	743.82	0.60
E115-00-00_0008	6116.7	1PCT_100yr	9340.00	49.15	68.64	64.38	69.74	0.000839	9.04	2558.99	1170.90	0.48
E115-00-00_0008	6016.	10PCT_10yr	6440.00	48.92	65.54	62.14	67.07	0.000620	9.96	713.26	149.73	0.57
E115-00-00_0008	6016.	2PCT_50yr	8530.00	48.92	66.85	63.87	68.80	0.000677	11.35	1019.84	402.56	0.61
E115-00-00_0008	6016.	1PCT_100yr	9340.00	48.92	67.65	64.57	69.45	0.000594	11.14	1702.15	1152.18	0.58
E115-00-00_0008	5602.8	10PCT_10yr	6440.00	47.99	65.53	61.22	66.76	0.000445	8.98	917.43	334.25	0.49
E115-00-00_0008	5602.8	2PCT_50yr	8530.00	47.99	66.98	62.93	68.41	0.000460	9.95	1627.67	594.10	0.51
E115-00-00_0008	5602.8	1PCT_100yr	9340.00	47.99	67.73	63.49	69.12	0.000421	9.92	2112.83	729.23	0.49
E115-00-00_0008	5016.7	10PCT_10yr	6440.00	47.60	65.40		66.47	0.000400	9.25	995.93	542.05	0.47
E115-00-00_0008	5016.7	2PCT_50yr	8530.00	47.60	67.06		68.04	0.000360	9.55	2129.08	782.71	0.45

E115-00-00 Revised Existing
HEC-RAS Output

HEC-RAS Plan: Rev Ext River: E115-00-00 Reach: E115-00-00_0008 (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
E115-00-00_0008	5016.7	1PCT_100yr	9340.00	47.60	67.89		68.75	0.000311	9.23	2876.81	1049.47	0.42
E115-00-00_0008	4894.1	10PCT_10yr	6460.00	47.52	65.43	60.08	66.34	0.000318	7.79	1190.59	549.85	0.42
E115-00-00_0008	4894.1	2PCT_50yr	8580.00	47.52	67.01	61.80	67.99	0.000306	8.38	2268.26	756.05	0.42
E115-00-00_0008	4894.1	1PCT_100yr	9380.00	47.52	67.61	62.37	68.64	0.000304	8.62	2727.59	1133.35	0.42
E115-00-00_0008	4863.6		Bridge									
E115-00-00_0008	4833.1	10PCT_10yr	6460.00	47.49	64.47	60.05	65.64	0.000446	8.69	810.15	321.41	0.49
E115-00-00_0008	4833.1	2PCT_50yr	8580.00	47.49	66.97	61.74	67.96	0.000307	8.39	2260.96	754.72	0.42
E115-00-00_0008	4833.1	1PCT_100yr	9380.00	47.49	67.58	62.32	68.62	0.000304	8.62	2729.99	1134.04	0.42
E115-00-00_0008	4713.5	10PCT_10yr	6460.00	47.27	63.43		65.34	0.000876	11.11	581.54	67.18	0.67
E115-00-00_0008	4713.5	2PCT_50yr	8580.00	47.27	65.91		67.68	0.000621	10.87	1323.74	683.51	0.59
E115-00-00_0008	4713.5	1PCT_100yr	9380.00	47.27	67.05		68.46	0.000465	10.00	2342.26	1002.21	0.52
E115-00-00_0008	4024.5	10PCT_10yr	6480.00	45.99	63.22	59.49	64.73	0.000596	9.88	694.51	148.84	0.56
E115-00-00_0008	4024.5	2PCT_50yr	8630.00	45.99	65.81	61.32	67.23	0.000430	9.83	1590.81	771.26	0.49
E115-00-00_0008	4024.5	1PCT_100yr	9430.00	45.99	66.97	61.90	68.11	0.000331	9.15	2726.45	1065.25	0.44
E115-00-00_0008	3095.3	10PCT_10yr	6500.00	45.95	62.57	59.03	64.14	0.000646	10.06	652.27	84.06	0.58
E115-00-00_0008	3095.3	2PCT_50yr	8690.00	45.95	65.46	60.88	66.81	0.000416	9.65	1775.91	769.95	0.49
E115-00-00_0008	3095.3	1PCT_100yr	9480.00	45.95	66.74	61.43	67.79	0.000305	8.83	2860.60	973.09	0.42
E115-00-00_0008	2552.5	10PCT_10yr	6500.00	45.70	61.63	59.22	63.68	0.000952	11.47	566.46	66.25	0.69
E115-00-00_0008	2552.5	2PCT_50yr	8690.00	45.70	64.52	61.06	66.48	0.000637	11.30	892.37	417.93	0.59
E115-00-00_0008	2552.5	1PCT_100yr	9480.00	45.70	65.98	61.64	67.55	0.000454	10.35	1867.41	768.09	0.51
E115-00-00_0008	2460.5	10PCT_10yr	6500.00	45.66	61.87	58.07	63.29	0.000573	9.55	683.05	79.93	0.55
E115-00-00_0008	2460.5	2PCT_50yr	8690.00	45.66	64.72	59.86	66.17	0.000415	9.70	944.97	453.39	0.49
E115-00-00_0008	2460.5	1PCT_100yr	9480.00	45.66	66.15	60.42	67.31	0.000305	8.95	2138.40	850.71	0.43
E115-00-00_0008	2418.5		Bridge									
E115-00-00_0008	2376.5	10PCT_10yr	6500.00	45.66	61.42	58.07	62.98	0.000677	10.04	647.61	75.34	0.59
E115-00-00_0008	2376.5	2PCT_50yr	8690.00	45.66	63.35	59.80	65.22	0.000625	11.00	811.36	94.51	0.59
E115-00-00_0008	2376.5	1PCT_100yr	9480.00	45.66	63.89	60.41	65.90	0.000630	11.40	863.49	165.45	0.60
E115-00-00_0008	2276.	10PCT_10yr	6500.00	45.39	60.52		62.71	0.001040	11.89	547.70	72.74	0.72
E115-00-00_0008	2276.	2PCT_50yr	8690.00	45.39	62.37	60.24	64.94	0.000944	12.93	727.62	120.51	0.71
E115-00-00_0008	2276.	1PCT_100yr	9480.00	45.39	62.84	60.87	65.61	0.000959	13.43	793.28	171.76	0.72
E115-00-00_0008	2090.4	10PCT_10yr	6553.00	44.89	60.48	58.03	62.48	0.000884	11.36	589.36	98.94	0.67
E115-00-00_0008	2090.4	2PCT_50yr	8807.00	44.89	62.41	59.83	64.69	0.000794	12.27	873.36	206.12	0.66
E115-00-00_0008	2090.4	1PCT_100yr	9578.00	44.89	62.93	60.55	65.33	0.000791	12.64	991.64	323.61	0.66
E115-00-00_0008	1698.	10PCT_10yr	6553.00	44.67	59.93	57.82	62.09	0.001004	11.80	560.65	89.58	0.71
E115-00-00_0008	1698.	2PCT_50yr	8807.00	44.67	61.94	59.66	64.36	0.000863	12.60	840.47	173.25	0.68
E115-00-00_0008	1698.	1PCT_100yr	9578.00	44.67	62.49	60.33	65.01	0.000847	12.91	940.01	190.20	0.68
E115-00-00_0008	1598.5	10PCT_10yr	6553.00	44.53	59.94	57.40	61.90	0.000819	11.27	605.80	130.74	0.65
E115-00-00_0008	1598.5	2PCT_50yr	8807.00	44.53	61.92	59.25	64.22	0.000753	12.29	808.90	233.12	0.64
E115-00-00_0008	1598.5	1PCT_100yr	9578.00	44.53	62.45	59.84	64.89	0.000758	12.71	873.04	282.86	0.65
E115-00-00_0008	1567.2		Bridge									
E115-00-00_0008	1563.1	10PCT_10yr	6553.00	44.47	57.36	57.36	61.04	0.002105	15.41	425.33	57.71	1.00
E115-00-00_0008	1563.1	2PCT_50yr	8807.00	44.47	59.19	59.19	63.36	0.001918	16.39	546.18	106.53	0.98
E115-00-00_0008	1563.1	1PCT_100yr	9578.00	44.47	59.62	59.62	64.07	0.001925	16.96	582.03	118.48	0.99
E115-00-00_0008	1457.4	10PCT_10yr	6553.00	43.96	54.90	53.47	56.80	0.000875	11.04	593.55	98.20	0.79
E115-00-00_0008	1457.4	2PCT_50yr	8807.00	43.96	59.04	55.24	60.01	0.000378	7.90	1115.50	170.99	0.50
E115-00-00_0008	1457.4	1PCT_100yr	9578.00	43.96	59.55	55.70	60.55	0.000386	8.04	1190.62	195.16	0.50
E115-00-00_0008	1304.	10PCT_10yr	6553.00	43.21	55.17	52.72	56.52	0.000588	9.33	702.22	112.87	0.66
E115-00-00_0008	1304.	2PCT_50yr	8807.00	43.21	59.10	54.49	59.91	0.000301	7.22	1219.70	145.62	0.44
E115-00-00_0008	1304.	1PCT_100yr	9578.00	43.21	59.59	54.93	60.44	0.000311	7.41	1292.63	149.55	0.44
E115-00-00_0008	1203.8	10PCT_10yr	6553.00	42.72	55.22	52.22	56.36	0.000483	8.57	764.87	121.58	0.60
E115-00-00_0008	1203.8	2PCT_50yr	8807.00	42.72	59.13	53.98	59.82	0.000260	6.70	1314.79	154.39	0.40
E115-00-00_0008	1203.8	1PCT_100yr	9578.00	42.72	59.62	54.46	60.36	0.000270	6.88	1391.92	157.56	0.41
E115-00-00_0008	1148.8		Bridge									
E115-00-00_0008	1093.8	10PCT_10yr	6553.00	42.59	55.07	52.09	56.22	0.000487	8.60	762.18	121.24	0.60
E115-00-00_0008	1093.8	2PCT_50yr	8807.00	42.59	56.73	53.85	57.98	0.000503	8.97	981.80	140.26	0.60
E115-00-00_0008	1093.8	1PCT_100yr	9578.00	42.59	57.28	54.33	58.55	0.000503	9.04	1058.93	143.45	0.59
E115-00-00_0008	1016.5	10PCT_10yr	6553.00	41.94	55.18		56.03	0.000371	7.39	886.69	151.32	0.54
E115-00-00_0008	1016.5	2PCT_50yr	8807.00	41.94	56.89		57.76	0.000385	7.48	1177.98	186.99	0.52

E115-00-00 Revised Existing
HEC-RAS Output

HEC-RAS Plan: Rev Ext River: E115-00-00 Reach: E115-00-00_0008 (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
E115-00-00_0008	1016.5	1PCT_100yr	9578.00	41.94	57.45		58.31	0.000384	7.45	1285.19	196.57	0.51
E115-00-00_0008	794.3	10PCT_10yr	6553.00	40.09	55.30	49.59	55.80	0.001001	5.69	1152.62	157.13	0.37
E115-00-00_0008	794.3	2PCT_50yr	8807.00	40.09	56.95	51.47	57.55	0.001000	6.21	1418.00	164.79	0.37
E115-00-00_0008	794.3	1PCT_100yr	9578.00	40.09	57.47	52.11	58.10	0.001000	6.37	1504.76	167.22	0.37

E117-00-00 Mitigated
HEC-RAS Output

HEC-RAS Plan: Mitigated River: E117-00-00 Reach: E117-00-00_0001

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
E117-00-00_0001	36002	10PCT_10yr	620.00	87.71	99.16		99.18	0.000073	1.09	629.30	303.49	0.07
E117-00-00_0001	36002	2PCT_50yr	925.00	87.71	99.60		99.63	0.000125	1.49	819.75	634.00	0.10
E117-00-00_0001	36002	1PCT_100yr	1080.00	87.71	101.32		101.32	0.000028	0.81	5416.08	3799.22	0.05
E117-00-00_0001	35901	10PCT_10yr	620.00	87.92	99.12	93.97	99.16	0.000181	1.65	539.24	250.91	0.11
E117-00-00_0001	35901	2PCT_50yr	925.00	87.92	99.53	95.56	99.60	0.000309	2.24	778.03	947.09	0.15
E117-00-00_0001	35901	1PCT_100yr	1080.00	87.92	96.33	96.33	100.16	0.012821	15.71	68.73	65.14	1.00
E117-00-00_0001	35811		Culvert									
E117-00-00_0001	35718	10PCT_10yr	620.00	87.92	96.68	93.97	96.79	0.000725	2.66	242.48	76.18	0.22
E117-00-00_0001	35718	2PCT_50yr	925.00	87.92	97.81	95.00	97.96	0.000853	3.15	346.04	105.67	0.24
E117-00-00_0001	35718	1PCT_100yr	1080.00	87.92	98.37	95.00	98.54	0.000848	3.30	413.11	129.40	0.24
E117-00-00_0001	35566.	10PCT_10yr	620.00	88.22	96.67		96.70	0.000165	1.46	426.10	77.46	0.11
E117-00-00_0001	35566.	2PCT_50yr	925.00	88.22	97.80		97.85	0.000217	1.79	518.38	93.21	0.13
E117-00-00_0001	35566.	1PCT_100yr	1080.00	88.22	98.37		98.42	0.000219	1.90	602.84	288.47	0.13
E117-00-00_0001	35315	10PCT_10yr	710.00	88.72	96.60		96.65	0.000294	1.86	382.63	74.43	0.14
E117-00-00_0001	35315	2PCT_50yr	1060.00	88.72	97.71		97.79	0.000369	2.26	531.12	277.22	0.16
E117-00-00_0001	35315	1PCT_100yr	1230.00	88.72	98.26		98.35	0.000369	2.37	949.83	1022.48	0.17
E117-00-00_0001	34437	10PCT_10yr	710.00	85.77	96.54		96.56	0.000046	1.13	656.89	200.45	0.08
E117-00-00_0001	34437	2PCT_50yr	1060.00	85.77	97.64		97.67	0.000058	1.40	1295.24	1454.20	0.09
E117-00-00_0001	34437	1PCT_100yr	1230.00	85.77	98.20		98.23	0.000056	1.44	2460.89	2699.11	0.09
E117-00-00_0001	34311	10PCT_10yr	770.00	85.35	96.23	89.20	96.48	0.000264	3.95	194.72	143.25	0.21
E117-00-00_0001	34311	2PCT_50yr	1160.00	85.35	97.50	90.42	97.63	0.000243	2.91	781.73	1101.61	0.18
E117-00-00_0001	34311	1PCT_100yr	1330.00	85.35	98.05	90.91	98.18	0.000251	3.04	1460.05	2669.20	0.19
E117-00-00_0001	34267		Culvert									
E117-00-00_0001	34221	10PCT_10yr	770.00	82.64	96.00	86.49	96.17	0.000133	3.22	239.10	111.84	0.16
E117-00-00_0001	34221	2PCT_50yr	1160.00	82.64	97.50	87.71	97.60	0.000149	2.47	861.55	1116.22	0.14
E117-00-00_0001	34221	1PCT_100yr	1330.00	82.64	98.07	88.20	98.17	0.000158	2.61	1569.12	2754.81	0.15
E117-00-00_0001	33907	10PCT_10yr	770.00	84.57	96.05		96.07	0.000047	1.15	850.57	507.63	0.08
E117-00-00_0001	33907	2PCT_50yr	1160.00	84.57	97.53		97.54	0.000033	1.10	3294.57	2731.27	0.07
E117-00-00_0001	33907	1PCT_100yr	1330.00	84.57	98.10		98.11	0.000026	1.04	4936.80	3027.91	0.06
E117-00-00_0001	33675	10PCT_10yr	850.00	86.00	96.01		96.05	0.000108	1.67	671.14	646.12	0.12
E117-00-00_0001	33675	2PCT_50yr	1280.00	86.00	97.49		97.52	0.000082	1.64	2828.36	2509.20	0.11
E117-00-00_0001	33675	1PCT_100yr	1470.00	86.00	98.06		98.09	0.000065	1.54	4552.79	3384.97	0.10
E117-00-00_0001	32920	10PCT_10yr	870.00	82.84	95.93		95.96	0.000118	1.43	857.83	827.36	0.09
E117-00-00_0001	32920	2PCT_50yr	1310.00	82.84	97.44		97.46	0.000075	1.30	4190.36	3129.01	0.08
E117-00-00_0001	32920	1PCT_100yr	1500.00	82.84	98.03		98.04	0.000050	1.11	6197.80	3622.66	0.06
E117-00-00_0001	32902	10PCT_10yr	870.00	88.13	95.84		95.95	0.000984	3.24	499.72	1065.62	0.25
E117-00-00_0001	32902	2PCT_50yr	1310.00	88.13	97.45		97.45	0.000072	1.05	3768.89	3104.84	0.07
E117-00-00_0001	32902	1PCT_100yr	1500.00	88.13	98.04		98.04	0.000038	0.81	5763.55	3634.08	0.05
E117-00-00_0001	32836	10PCT_10yr	870.00	88.47	94.92	93.70	95.64	0.006343	6.79	128.66	38.13	0.62
E117-00-00_0001	32836	2PCT_50yr	1310.00	88.47	97.09	94.74	97.36	0.001722	4.79	580.60	2321.39	0.35
E117-00-00_0001	32836	1PCT_100yr	1500.00	88.47	97.94	95.15	98.01	0.000542	2.94	1265.92	2736.18	0.20
E117-00-00_0001	32825.5		Bridge									
E117-00-00_0001	32811	10PCT_10yr	870.00	88.43	94.25	93.66	95.28	0.010727	8.13	107.05	32.17	0.79
E117-00-00_0001	32811	2PCT_50yr	1310.00	88.43	96.49	94.68	97.14	0.003849	6.70	248.26	1382.58	0.51
E117-00-00_0001	32811	1PCT_100yr	1500.00	88.43	97.91	95.10	97.98	0.000534	2.92	1274.06	2734.14	0.20
E117-00-00_0001	32762	10PCT_10yr	908.00	87.95	94.20	92.28	94.73	0.003904	5.84	155.36	35.46	0.49
E117-00-00_0001	32762	2PCT_50yr	1249.00	87.95	96.50	93.05	96.87	0.001916	5.00	261.03	2034.29	0.36
E117-00-00_0001	32762	1PCT_100yr	1540.00	87.95	97.93	93.64	97.94	0.000079	1.17	6046.03	3033.65	0.08
E117-00-00_0001	32747.5		Bridge									
E117-00-00_0001	32734	10PCT_10yr	908.00	87.95	93.76	92.28	94.41	0.005239	6.49	139.93	34.28	0.57
E117-00-00_0001	32734	2PCT_50yr	1249.00	87.95	96.38	93.05	96.42	0.000395	2.25	2195.50	1970.48	0.16
E117-00-00_0001	32734	1PCT_100yr	1540.00	87.95	97.26	93.62	97.28	0.000170	1.61	4174.36	2521.02	0.11
E117-00-00_0001	32700	10PCT_10yr	908.00	87.29	93.84	90.80	94.11	0.002286	4.21	215.73	109.93	0.32
E117-00-00_0001	32700	2PCT_50yr	1249.00	87.29	96.07	91.47	96.33	0.001328	4.06	307.42	2014.92	0.26
E117-00-00_0001	32700	1PCT_100yr	1540.00	87.29	97.26	91.98	97.27	0.000097	1.11	5519.89	3364.38	0.07
E117-00-00_0001	32652		Culvert									
E117-00-00_0001	32602	10PCT_10yr	910.00	83.50	93.59	87.01	93.69	0.000424	2.53	359.43	96.36	0.15
E117-00-00_0001	32602	2PCT_50yr	1250.00	83.50	95.34	87.68	95.38	0.000241	1.88	1061.52	920.40	0.11
E117-00-00_0001	32602	1PCT_100yr	1540.00	83.50	96.23	88.19	96.25	0.000155	1.61	2397.78	2597.81	0.09
E117-00-00_0001	32588	10PCT_10yr	930.00	83.50	93.58	87.21	93.68	0.000444	2.58	360.26	69.51	0.15
E117-00-00_0001	32588	2PCT_50yr	1300.00	83.50	95.21	87.91	95.35	0.000492	3.04	427.32	128.62	0.17

E117-00-00 Mitigated
HEC-RAS Output

HEC-RAS Plan: Mitigated River: E117-00-00 Reach: E117-00-00_0001 (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
E117-00-00_0001	32588	1PCT_100yr	1600.00	83.50	96.09	88.42	96.22	0.000717	2.84	629.71	267.26	0.19
E117-00-00_0001	31272		Culvert									
E117-00-00_0001	30012	10PCT_10yr	930.00	78.27	92.86	80.27	92.87	0.000004	0.62	2043.50	1340.69	0.03
E117-00-00_0001	30012	2PCT_50yr	1300.00	78.27	93.74	80.75	93.75	0.000006	0.77	3805.01	2250.10	0.04
E117-00-00_0001	30012	1PCT_100yr	1600.00	78.27	94.06	81.11	94.08	0.000008	0.91	4550.50	2335.73	0.05
E117-00-00_0001	30009	10PCT_10yr	980.00	78.27	92.85	80.96	92.86	0.000010	0.96	1017.03	1315.33	0.05
E117-00-00_0001	30009	2PCT_50yr	1390.00	78.27	93.72	81.61	93.74	0.000012	1.06	3060.15	1724.34	0.06
E117-00-00_0001	30009	1PCT_100yr	1690.00	78.27	94.06	82.05	94.07	0.000014	1.19	3644.40	1779.19	0.06
E117-00-00_0001	29974		Bridge									
E117-00-00_0001	29939	10PCT_10yr	980.00	78.27	92.81	82.20	92.83	0.000013	1.17	837.47	556.42	0.07
E117-00-00_0001	29939	2PCT_50yr	1390.00	78.27	93.64	83.00	93.67	0.000019	1.52	916.50	1541.50	0.09
E117-00-00_0001	29939	1PCT_100yr	1690.00	78.27	93.95	83.51	93.99	0.000021	1.60	2389.70	1635.33	0.09
E117-00-00_0001	29914	10PCT_10yr	980.00	78.27	92.81	81.79	92.82	0.000008	0.77	1273.63	573.13	0.06
E117-00-00_0001	29914	2PCT_50yr	1390.00	78.27	93.64	82.52	93.66	0.000010	0.94	1516.33	1388.04	0.07
E117-00-00_0001	29914	1PCT_100yr	1690.00	78.27	93.96	82.99	93.98	0.000013	1.09	1683.12	1595.25	0.08
E117-00-00_0001	29702		Bridge									
E117-00-00_0001	29490	10PCT_10yr	980.00	78.37	92.61	81.83	92.63	0.000008	0.85	1160.78	526.37	0.06
E117-00-00_0001	29490	2PCT_50yr	1390.00	78.37	93.51	82.55	93.53	0.000010	1.05	1415.08	1130.71	0.07
E117-00-00_0001	29490	1PCT_100yr	1690.00	78.37	93.86	83.00	93.89	0.000013	1.22	1563.99	1371.62	0.08
E117-00-00_0001	29480	10PCT_10yr	980.00	78.62	92.60	82.53	92.62	0.000015	1.21	806.90	406.01	0.07
E117-00-00_0001	29480	2PCT_50yr	1390.00	78.62	93.48	83.32	93.52	0.000021	1.56	893.59	914.23	0.09
E117-00-00_0001	29480	1PCT_100yr	1690.00	78.62	93.84	83.85	93.88	0.000025	1.71	1925.16	1225.51	0.10
E117-00-00_0001	29445		Bridge									
E117-00-00_0001	29410	10PCT_10yr	980.00	78.69	92.57	82.56	92.59	0.000013	1.18	829.64	1008.21	0.07
E117-00-00_0001	29410	2PCT_50yr	1390.00	78.69	93.41	83.33	93.44	0.000019	1.53	912.20	1149.05	0.09
E117-00-00_0001	29410	1PCT_100yr	1690.00	78.69	93.74	83.84	93.77	0.000018	1.50	2704.54	1227.94	0.09
E117-00-00_0001	29325	10PCT_10yr	980.00	78.77	92.55		92.59	0.000121	1.63	990.59	545.04	0.10
E117-00-00_0001	29325	2PCT_50yr	1390.00	78.77	93.40		93.43	0.000125	1.74	1629.83	888.68	0.10
E117-00-00_0001	29325	1PCT_100yr	1690.00	78.77	93.72		93.76	0.000137	1.85	1937.77	1004.29	0.10
E117-00-00_0001	29185	10PCT_10yr	980.00	78.00	92.54		92.58	0.000127	1.65	819.93	421.48	0.10
E117-00-00_0001	29185	2PCT_50yr	1390.00	78.00	93.38		93.42	0.000143	1.84	1413.87	920.68	0.11
E117-00-00_0001	29185	1PCT_100yr	1690.00	78.00	93.70		93.74	0.000160	1.99	1712.45	942.34	0.11
E117-00-00_0001	29088	10PCT_10yr	1006.00	78.09	92.54	80.38	92.57	0.000009	1.33	1009.93	336.88	0.06
E117-00-00_0001	29088	2PCT_50yr	1441.00	78.09	93.36	81.00	93.41	0.000015	1.74	1504.84	831.71	0.08
E117-00-00_0001	29088	1PCT_100yr	1749.00	78.09	93.68	81.40	93.74	0.000020	2.01	1790.76	1002.33	0.09
E117-00-00_0001	28999.5		Culvert									
E117-00-00_0001	28900	10PCT_10yr	1006.00	78.09	92.49	80.38	92.52	0.000010	1.37	734.46	51.00	0.06
E117-00-00_0001	28900	2PCT_50yr	1441.00	78.09	93.34	81.00	93.39	0.000017	1.84	1082.76	913.30	0.08
E117-00-00_0001	28900	1PCT_100yr	1749.00	78.09	93.65	81.40	93.72	0.000023	2.17	1386.09	1019.41	0.10
E117-00-00_0001	28800	10PCT_10yr	1006.00	78.49	92.46		92.51	0.000160	1.86	755.66	393.76	0.11
E117-00-00_0001	28800	2PCT_50yr	1441.00	78.49	93.32		93.39	0.000198	2.21	1256.51	919.59	0.12
E117-00-00_0001	28800	1PCT_100yr	1749.00	78.49	93.64		93.72	0.000232	2.44	1577.12	1033.05	0.14
E117-00-00_0001	28684	10PCT_10yr	1006.00	79.05	92.39	85.33	92.48	0.000375	2.48	542.22	428.64	0.16
E117-00-00_0001	28684	2PCT_50yr	1441.00	79.05	93.24	86.36	93.35	0.000422	2.83	885.98	685.65	0.18
E117-00-00_0001	28684	1PCT_100yr	1749.00	79.05	93.55	87.02	93.68	0.000500	3.16	1018.19	746.97	0.19
E117-00-00_0001	28302	10PCT_10yr	1006.00	78.76	92.25	85.04	92.34	0.000361	2.46	500.03	472.93	0.16
E117-00-00_0001	28302	2PCT_50yr	1441.00	78.76	93.07	86.07	93.18	0.000420	2.85	865.46	702.56	0.18
E117-00-00_0001	28302	1PCT_100yr	1749.00	78.76	93.34	86.73	93.48	0.000506	3.20	1001.91	815.96	0.19
E117-00-00_0001	27886	10PCT_10yr	1006.00	77.29	92.16	83.32	92.22	0.000198	1.99	522.18	597.51	0.12
E117-00-00_0001	27886	2PCT_50yr	1441.00	77.29	92.95	84.24	93.04	0.000268	2.45	852.73	1910.01	0.14
E117-00-00_0001	27886	1PCT_100yr	1749.00	77.29	93.19	84.84	93.30	0.000339	2.80	979.69	2009.54	0.16
E117-00-00_0001	27836		Culvert									
E117-00-00_0001	27778	10PCT_10yr	1006.00	77.52	90.77	83.01	90.85	0.000279	2.25	446.90	56.18	0.14
E117-00-00_0001	27778	2PCT_50yr	1441.00	77.52	92.14	83.92	92.26	0.000352	2.73	538.81	616.91	0.16
E117-00-00_0001	27778	1PCT_100yr	1749.00	77.52	92.64	84.49	92.79	0.000429	3.13	594.53	1623.54	0.18
E117-00-00_0001	27568	10PCT_10yr	1006.00	77.52	90.71	83.01	90.79	0.000285	2.25	446.45	102.47	0.14
E117-00-00_0001	27568	2PCT_50yr	1441.00	77.52	92.07	83.92	92.19	0.000346	2.73	549.99	986.45	0.16
E117-00-00_0001	27568	1PCT_100yr	1749.00	77.52	92.55	84.49	92.70	0.000422	3.12	608.84	1717.98	0.18
E117-00-00_0001	27267	10PCT_10yr	1280.00	77.64	90.50	84.22	90.65	0.000662	3.15	428.60	482.32	0.22
E117-00-00_0001	27267	2PCT_50yr	2220.00	77.64	91.73	86.05	91.99	0.001018	4.20	799.76	1534.57	0.27

E117-00-00 Mitigated
HEC-RAS Output

HEC-RAS Plan: Mitigated River: E117-00-00 Reach: E117-00-00_0001 (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
E117-00-00_0001	27267	1PCT_100yr	2760.00	77.64	92.17	86.91	92.46	0.001188	4.66	982.75	1688.02	0.30
E117-00-00_0001	25938	10PCT_10yr	1519.00	76.12	89.65		89.79	0.000637	3.09	1525.42	1875.78	0.21
E117-00-00_0001	25938	2PCT_50yr	2466.00	76.12	90.81		90.92	0.000611	3.22	3906.14	2225.05	0.21
E117-00-00_0001	25938	1PCT_100yr	2978.00	76.12	91.18		91.30	0.000628	3.35	4776.58	2417.03	0.22
E117-00-00_0001	24962	10PCT_10yr	1519.00	77.55	89.08		89.19	0.000570	2.91	1074.28	864.73	0.20
E117-00-00_0001	24962	2PCT_50yr	2383.00	77.55	90.39		90.45	0.000371	2.62	2688.45	1841.50	0.17
E117-00-00_0001	24962	1PCT_100yr	2871.00	77.55	90.74		90.81	0.000388	2.76	3411.88	2158.51	0.17
E117-00-00_0001	24075	10PCT_10yr	1660.00	74.54	88.35	82.41	88.56	0.000842	3.67	452.40	64.14	0.24
E117-00-00_0001	24075	2PCT_50yr	2460.00	74.54	89.77	83.70	89.98	0.000766	3.91	1273.32	1485.58	0.24
E117-00-00_0001	24075	1PCT_100yr	2890.00	74.54	90.16	84.30	90.34	0.000710	3.88	1995.61	2038.33	0.23
E117-00-00_0001	23347	10PCT_10yr	1660.00	74.56	87.58		87.84	0.001153	4.12	402.93	60.68	0.28
E117-00-00_0001	23347	2PCT_50yr	2460.00	74.56	88.85		89.21	0.001433	4.93	738.05	983.48	0.32
E117-00-00_0001	23347	1PCT_100yr	2890.00	74.56	89.25		89.61	0.001407	5.07	1205.94	1345.65	0.32
E117-00-00_0001	22996	10PCT_10yr	1720.00	74.57	87.55	79.72	87.60	0.000172	1.83	937.36	148.04	0.12
E117-00-00_0001	22996	2PCT_50yr	2490.00	74.57	88.84	80.74	88.91	0.000208	2.19	1281.48	681.17	0.14
E117-00-00_0001	22996	1PCT_100yr	2900.00	74.57	89.22	81.18	89.31	0.000239	2.41	1429.48	1362.40	0.15
E117-00-00_0001	22931		Bridge									
E117-00-00_0001	22854	10PCT_10yr	1720.00	75.19	87.35	80.34	87.42	0.000252	2.07	831.18	137.14	0.14
E117-00-00_0001	22854	2PCT_50yr	2490.00	75.19	88.47	81.36	88.55	0.000306	2.41	1204.50	457.97	0.17
E117-00-00_0001	22854	1PCT_100yr	2900.00	75.19	88.74	81.80	88.84	0.000351	2.63	1334.04	485.73	0.18
E117-00-00_0001	22615	10PCT_10yr	1720.00	74.69	87.11		87.29	0.000760	3.41	514.75	108.79	0.24
E117-00-00_0001	22615	2PCT_50yr	2490.00	74.69	88.23		88.42	0.000731	3.67	1154.53	1061.86	0.24
E117-00-00_0001	22615	1PCT_100yr	2900.00	74.69	88.54		88.71	0.000715	3.72	1493.61	1182.76	0.24
E117-00-00_0001	22223	10PCT_10yr	1790.00	73.87	86.87		87.02	0.000602	3.18	645.17	369.77	0.21
E117-00-00_0001	22223	2PCT_50yr	2530.00	73.87	88.08		88.18	0.000415	2.93	1752.96	1439.63	0.18
E117-00-00_0001	22223	1PCT_100yr	2910.00	73.87	88.39		88.48	0.000396	2.93	2233.37	1676.27	0.18
E117-00-00_0001	21280	10PCT_10yr	1870.00	73.13	85.99		86.25	0.001123	4.22	492.90	172.81	0.28
E117-00-00_0001	21280	2PCT_50yr	2570.00	73.13	87.46		87.65	0.000797	3.93	1433.66	1452.26	0.25
E117-00-00_0001	21280	1PCT_100yr	2930.00	73.13	87.84		88.00	0.000694	3.79	2055.67	1713.63	0.23
E117-00-00_0001	20308	10PCT_10yr	1956.00	71.38	84.20		84.67	0.002427	5.51	354.95	61.67	0.40
E117-00-00_0001	20308	2PCT_50yr	2611.00	71.38	86.10		86.52	0.001735	5.27	628.04	603.27	0.35
E117-00-00_0001	20308	1PCT_100yr	2937.00	71.38	86.81		87.11	0.001225	4.73	1248.54	1079.97	0.30
E117-00-00_0001	19566	10PCT_10yr	1956.00	71.00	83.56		83.74	0.000659	3.41	573.59	79.26	0.22
E117-00-00_0001	19566	2PCT_50yr	2611.00	71.00	85.57		85.76	0.000583	3.52	742.87	94.06	0.21
E117-00-00_0001	19566	1PCT_100yr	2937.00	71.00	86.28		86.48	0.000566	3.59	960.10	512.83	0.21
E117-00-00_0001	19349	10PCT_10yr	2020.00	71.07	83.38	77.60	83.58	0.000837	3.52	574.29	87.77	0.24
E117-00-00_0001	19349	2PCT_50yr	2710.00	71.07	85.43	78.59	85.62	0.000694	3.53	766.66	136.77	0.22
E117-00-00_0001	19349	1PCT_100yr	3050.00	71.07	86.15	79.01	86.34	0.000696	3.52	1146.16	1072.35	0.22
E117-00-00_0001	19322		Bridge									
E117-00-00_0001	19290	10PCT_10yr	2020.00	71.31	83.28	77.84	83.49	0.000954	3.71	544.13	85.39	0.26
E117-00-00_0001	19290	2PCT_50yr	2710.00	71.31	85.24	78.82	85.46	0.000837	3.74	724.97	98.80	0.24
E117-00-00_0001	19290	1PCT_100yr	3050.00	71.31	85.87	79.22	86.10	0.000807	3.88	786.71	123.13	0.24
E117-00-00_0001	19077	10PCT_10yr	2020.00	70.77	83.10	77.22	83.30	0.000802	3.61	558.79	82.61	0.24
E117-00-00_0001	19077	2PCT_50yr	2710.00	70.77	85.07	78.17	85.28	0.000698	3.69	734.03	521.56	0.23
E117-00-00_0001	19077	1PCT_100yr	3050.00	70.77	85.71	78.61	85.94	0.000712	3.83	798.21	610.33	0.24
E117-00-00_0001	18678	10PCT_10yr	2100.00	69.75	82.86	77.32	83.01	0.000592	3.10	677.04	101.18	0.21
E117-00-00_0001	18678	2PCT_50yr	2830.00	69.75	84.88	78.04	85.03	0.000496	3.17	893.31	171.30	0.20
E117-00-00_0001	18678	1PCT_100yr	3190.00	69.75	85.52	78.42	85.69	0.000506	3.30	966.97	578.25	0.20
E117-00-00_0001	17828	10PCT_10yr	2200.00	68.55	82.35		82.50	0.000617	3.11	706.79	108.10	0.21
E117-00-00_0001	17828	2PCT_50yr	3000.00	68.55	84.45		84.61	0.000498	3.16	988.06	177.48	0.20
E117-00-00_0001	17828	1PCT_100yr	3380.00	68.55	85.09		85.25	0.000506	3.30	1121.28	414.59	0.20
E117-00-00_0001	17658	10PCT_10yr	2200.00	67.38	82.32	73.90	82.41	0.000288	2.40	916.35	210.75	0.15
E117-00-00_0001	17658	2PCT_50yr	3000.00	67.38	84.42	74.98	84.52	0.000259	2.55	1177.07	452.56	0.15
E117-00-00_0001	17658	1PCT_100yr	3380.00	67.38	85.07	75.47	85.16	0.000233	2.44	1993.05	783.32	0.14
E117-00-00_0001	17630		Bridge									
E117-00-00_0001	17597	10PCT_10yr	2200.00	68.55	82.23	75.07	82.36	0.000452	2.84	775.12	195.99	0.19
E117-00-00_0001	17597	2PCT_50yr	3000.00	68.55	84.29	76.15	84.42	0.000408	2.96	1012.80	393.29	0.18
E117-00-00_0001	17597	1PCT_100yr	3380.00	68.55	84.98	76.61	85.09	0.000343	2.80	1707.16	545.32	0.17
E117-00-00_0001	17414	10PCT_10yr	2200.00	68.30	82.12		82.26	0.000586	2.97	740.78	117.73	0.21
E117-00-00_0001	17414	2PCT_50yr	3000.00	68.30	84.20		84.34	0.000468	3.00	1049.97	385.49	0.19
E117-00-00_0001	17414	1PCT_100yr	3380.00	68.30	84.86		85.01	0.000461	3.08	1452.60	886.65	0.19

E117-00-00 Mitigated
HEC-RAS Output

HEC-RAS Plan: Mitigated River: E117-00-00 Reach: E117-00-00_0001 (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
E117-00-00_0001	16773	10PCT_10yr	2300.00	67.42	81.76		81.91	0.000549	3.03	759.43	110.75	0.20
E117-00-00_0001	16773	2PCT_50yr	3160.00	67.42	83.90		84.05	0.000445	3.12	1094.01	265.02	0.19
E117-00-00_0001	16773	1PCT_100yr	3570.00	67.42	84.55		84.72	0.000441	3.25	1320.78	477.14	0.19
E117-00-00_0001	16140	10PCT_10yr	2300.00	66.81	81.42		81.55	0.000560	2.88	798.92	128.65	0.20
E117-00-00_0001	16140	2PCT_50yr	3160.00	66.81	83.67		83.78	0.000376	2.72	1597.73	621.64	0.17
E117-00-00_0001	16140	1PCT_100yr	3570.00	66.81	84.34		84.45	0.000348	2.77	2098.30	1127.91	0.17
E117-00-00_0001	15781	10PCT_10yr	2420.00	66.46	81.28	74.61	81.38	0.000354	2.54	950.95	197.14	0.17
E117-00-00_0001	15781	2PCT_50yr	3350.00	66.46	83.56	75.37	83.66	0.000282	2.63	1928.91	773.63	0.15
E117-00-00_0001	15781	1PCT_100yr	3790.00	66.46	84.22	75.73	84.34	0.000277	2.73	2624.94	1233.35	0.15
E117-00-00_0001	15698		Bridge									
E117-00-00_0001	15619	10PCT_10yr	2420.00	66.61	81.17	74.76	81.28	0.000390	2.64	918.03	165.23	0.17
E117-00-00_0001	15619	2PCT_50yr	3350.00	66.61	83.27	75.54	83.39	0.000336	2.78	1691.77	677.22	0.17
E117-00-00_0001	15619	1PCT_100yr	3790.00	66.61	83.84	75.88	83.98	0.000341	2.92	2127.35	956.91	0.17
E117-00-00_0001	15364	10PCT_10yr	2420.00	66.44	81.10		81.18	0.000279	2.31	1047.12	140.81	0.15
E117-00-00_0001	15364	2PCT_50yr	3350.00	66.44	83.22		83.29	0.000204	2.24	2713.32	2236.64	0.13
E117-00-00_0001	15364	1PCT_100yr	3790.00	66.44	83.81		83.87	0.000188	2.24	4187.38	2960.41	0.13
E117-00-00_0001	15001	10PCT_10yr	2420.00	66.21	81.01		81.08	0.000249	2.12	1176.38	254.19	0.14
E117-00-00_0001	15001	2PCT_50yr	3350.00	66.21	83.15		83.21	0.000169	2.08	2500.90	1377.87	0.12
E117-00-00_0001	15001	1PCT_100yr	3790.00	66.21	83.75		83.81	0.000156	2.08	3859.77	2922.11	0.12
E117-00-00_0001	14709	10PCT_10yr	2550.00	66.02	80.91	72.62	80.99	0.000285	2.36	1082.41	168.74	0.15
E117-00-00_0001	14709	2PCT_50yr	3550.00	66.02	83.08	73.71	83.16	0.000194	2.29	2387.67	1469.69	0.13
E117-00-00_0001	14709	1PCT_100yr	4020.00	66.02	83.70	74.15	83.76	0.000167	2.21	3570.18	2170.02	0.12
E117-00-00_0001	14698.5		Bridge									
E117-00-00_0001	14681	10PCT_10yr	2550.00	66.02	80.87	72.61	80.96	0.000289	2.37	1076.02	163.38	0.15
E117-00-00_0001	14681	2PCT_50yr	3550.00	66.02	83.04	73.70	83.12	0.000205	2.34	2326.81	1408.55	0.13
E117-00-00_0001	14681	1PCT_100yr	4020.00	66.02	83.65	74.15	83.72	0.000180	2.29	3459.82	2132.69	0.13
E117-00-00_0001	14156	10PCT_10yr	2550.00	66.74	80.50	73.85	80.71	0.000621	3.62	703.59	233.59	0.22
E117-00-00_0001	14156	2PCT_50yr	3550.00	66.74	82.66	74.98	82.90	0.000561	3.97	896.83	1477.73	0.22
E117-00-00_0001	14156	1PCT_100yr	4020.00	66.74	83.37	75.46	83.54	0.000464	3.56	4094.67	3085.83	0.20
E117-00-00_0001	14121.5		Bridge									
E117-00-00_0001	14083	10PCT_10yr	2550.00	66.57	80.40	73.68	80.61	0.000607	3.60	707.81	232.04	0.22
E117-00-00_0001	14083	2PCT_50yr	3550.00	66.57	82.47	74.81	82.68	0.000566	3.72	2202.33	1227.90	0.22
E117-00-00_0001	14083	1PCT_100yr	4020.00	66.57	83.14	75.28	83.34	0.000518	3.73	3458.80	2661.51	0.21
E117-00-00_0001	13877.0	10PCT_10yr	2550.00	65.99	80.16		80.42	0.000950	4.16	613.00	81.98	0.27
E117-00-00_0001	13877.0	2PCT_50yr	3550.00	65.99	82.28		82.53	0.000876	4.12	1479.99	1485.82	0.26
E117-00-00_0001	13877.0	1PCT_100yr	4020.00	65.99	83.04		83.21	0.000629	3.63	3013.15	2623.20	0.22
E117-00-00_0001	13580	10PCT_10yr	2720.00	65.15	79.89		80.15	0.000880	4.11	673.35	139.76	0.26
E117-00-00_0001	13580	2PCT_50yr	3830.00	65.15	82.09		82.31	0.000632	3.95	1893.58	1441.70	0.23
E117-00-00_0001	13580	1PCT_100yr	4350.00	65.15	82.91		83.05	0.000448	3.52	3982.91	3463.11	0.19
E117-00-00_0001	12476	10PCT_10yr	2720.00	65.09	79.05		79.21	0.000774	3.21	848.60	150.16	0.24
E117-00-00_0001	12476	2PCT_50yr	3830.00	65.09	81.65		81.75	0.000367	2.67	2375.26	1227.76	0.17
E117-00-00_0001	12476	1PCT_100yr	4350.00	65.09	82.60		82.67	0.000248	2.38	4336.92	2857.72	0.14
E117-00-00_0001	12164	10PCT_10yr	2850.00	65.07	78.49	73.31	78.84	0.001309	4.78	596.47	133.12	0.31
E117-00-00_0001	12164	2PCT_50yr	4060.00	65.07	81.31	74.62	81.55	0.000732	4.18	1787.34	1307.56	0.24
E117-00-00_0001	12164	1PCT_100yr	4610.00	65.07	82.47	75.14	82.57	0.000348	3.09	4374.75	2997.77	0.17
E117-00-00_0001	12151		Bridge									
E117-00-00_0001	12138	10PCT_10yr	2850.00	64.71	78.44	72.95	78.76	0.001166	4.58	622.47	127.71	0.30
E117-00-00_0001	12138	2PCT_50yr	4060.00	64.71	81.13	74.24	81.38	0.000743	4.25	1645.18	1182.06	0.25
E117-00-00_0001	12138	1PCT_100yr	4610.00	64.71	82.25	74.77	82.36	0.000383	3.26	3847.45	2267.82	0.18
E117-00-00_0001	11757	10PCT_10yr	2850.00	63.81	78.10		78.35	0.000840	4.02	708.47	91.44	0.25
E117-00-00_0001	11757	2PCT_50yr	4060.00	63.81	80.86		81.10	0.000713	3.98	1361.74	805.33	0.24
E117-00-00_0001	11757	1PCT_100yr	4610.00	63.81	82.04		82.20	0.000451	3.45	2870.50	1809.61	0.19
E117-00-00_0001	11096	10PCT_10yr	2993.00	63.61	77.48		77.76	0.000942	4.26	848.91	225.45	0.27
E117-00-00_0001	11096	2PCT_50yr	4289.00	63.61	80.32		80.60	0.000760	4.32	1710.36	411.66	0.25
E117-00-00_0001	11096	1PCT_100yr	4874.00	63.61	81.60		81.84	0.000592	4.08	2974.08	1517.14	0.22
E117-00-00_0001	10371	10PCT_10yr	2993.00	64.01	77.15		77.28	0.000411	2.92	1026.75	130.22	0.18
E117-00-00_0001	10371	2PCT_50yr	4289.00	64.01	80.10		80.23	0.000301	2.97	1601.82	378.08	0.16
E117-00-00_0001	10371	1PCT_100yr	4874.00	64.01	81.43		81.56	0.000241	2.88	2758.71	1470.82	0.15
E117-00-00_0001	10050	10PCT_10yr	3120.00	64.18	76.89	71.24	77.10	0.000676	3.62	861.34	110.97	0.23
E117-00-00_0001	10050	2PCT_50yr	4490.00	64.18	79.89	72.24	80.09	0.000497	3.62	1411.65	295.80	0.20
E117-00-00_0001	10050	1PCT_100yr	5110.00	64.18	81.28	72.65	81.45	0.000391	3.44	2397.49	1104.19	0.18

E117-00-00 Mitigated
HEC-RAS Output

HEC-RAS Plan: Mitigated River: E117-00-00 Reach: E117-00-00_0001 (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
E117-00-00_0001	9975		Bridge									
E117-00-00_0001	9902	10PCT_10yr	3120.00	64.00	76.55	71.06	76.76	0.000720	3.70	843.38	110.36	0.24
E117-00-00_0001	9902	2PCT_50yr	4490.00	64.00	79.73	72.05	79.93	0.000493	3.61	1418.21	300.84	0.20
E117-00-00_0001	9902	1PCT_100yr	5110.00	64.00	80.92	72.45	81.10	0.000420	3.53	2204.33	1037.17	0.19
E117-00-00_0001	9794	10PCT_10yr	3120.00	62.79	76.21		76.60	0.001328	5.01	622.41	81.82	0.32
E117-00-00_0001	9794	2PCT_50yr	4490.00	62.79	79.43		79.81	0.000980	4.94	909.60	97.19	0.28
E117-00-00_0001	9794	1PCT_100yr	5110.00	62.79	80.59		80.98	0.000916	4.98	1043.12	251.80	0.28
E117-00-00_0001	9694	10PCT_10yr	3120.00	61.66	76.18		76.47	0.000910	4.37	714.60	86.94	0.27
E117-00-00_0001	9694	2PCT_50yr	4490.00	61.66	79.40		79.70	0.000721	4.40	1019.53	102.62	0.25
E117-00-00_0001	9694	1PCT_100yr	5110.00	61.66	80.58		80.88	0.000666	4.45	1249.96	415.21	0.24
E117-00-00_0001	9592	10PCT_10yr	3120.00	60.51	76.14	68.70	76.37	0.000626	3.83	814.02	92.23	0.23
E117-00-00_0001	9592	2PCT_50yr	4490.00	60.51	79.37	70.07	79.60	0.000520	3.92	1202.45	211.98	0.21
E117-00-00_0001	9592	1PCT_100yr	5110.00	60.51	80.56	70.63	80.79	0.000443	3.88	1701.96	740.70	0.20
E117-00-00_0001	9569.5		Bridge									
E117-00-00_0001	9543	10PCT_10yr	3120.00	60.26	76.09	68.44	76.31	0.000580	3.75	832.66	93.16	0.22
E117-00-00_0001	9543	2PCT_50yr	4490.00	60.26	79.01	69.82	79.26	0.000542	3.98	1159.20	175.66	0.22
E117-00-00_0001	9543	1PCT_100yr	5110.00	60.26	80.09	70.36	80.34	0.000489	4.01	1443.16	422.62	0.21
E117-00-00_0001	9418	10PCT_10yr	3120.00	60.60	76.02		76.24	0.000654	3.75	831.01	100.02	0.23
E117-00-00_0001	9418	2PCT_50yr	4490.00	60.60	78.95		79.18	0.000556	3.90	1169.41	254.13	0.22
E117-00-00_0001	9418	1PCT_100yr	5110.00	60.60	80.04		80.26	0.000468	3.84	2005.12	1224.54	0.20
E117-00-00_0001	9195	10PCT_10yr	3120.00	61.20	75.78	69.37	76.06	0.000903	4.23	737.14	94.27	0.27
E117-00-00_0001	9195	2PCT_50yr	4490.00	61.20	78.76	70.76	79.03	0.000788	4.18	1157.46	432.26	0.25
E117-00-00_0001	9195	1PCT_100yr	5110.00	61.20	79.93	71.31	80.15	0.000593	3.89	1688.74	1117.46	0.22
E117-00-00_0001	8997	10PCT_10yr	3120.00	61.74	75.63	69.02	75.87	0.000816	3.99	782.72	116.85	0.25
E117-00-00_0001	8997	2PCT_50yr	4490.00	61.74	78.67	70.39	78.87	0.000535	3.66	1411.66	498.79	0.21
E117-00-00_0001	8997	1PCT_100yr	5110.00	61.74	79.86	71.07	80.03	0.000395	3.41	1915.29	1117.09	0.19
E117-00-00_0001	8939		Bridge									
E117-00-00_0001	8856	10PCT_10yr	3120.00	63.28	75.04	70.55	75.49	0.001971	5.42	575.73	94.81	0.38
E117-00-00_0001	8856	2PCT_50yr	4490.00	63.28	77.31	71.93	77.77	0.001802	5.45	827.23	145.88	0.37
E117-00-00_0001	8856	1PCT_100yr	5110.00	63.28	78.21	72.61	78.65	0.001570	5.38	1049.77	365.68	0.35
E117-00-00_0001	8658	10PCT_10yr	3120.00	61.80	74.33		74.96	0.003013	6.40	487.69	83.05	0.47
E117-00-00_0001	8658	2PCT_50yr	4490.00	61.80	76.68		77.30	0.002609	6.30	712.74	112.61	0.44
E117-00-00_0001	8658	1PCT_100yr	5110.00	61.80	77.64		78.23	0.002392	6.16	857.97	306.52	0.43
E117-00-00_0001	8307	10PCT_10yr	3180.00	59.19	73.83	68.67	74.21	0.001342	4.96	641.01	86.18	0.32
E117-00-00_0001	8307	2PCT_50yr	4570.00	59.19	76.20	70.01	76.64	0.001233	5.32	858.58	97.32	0.32
E117-00-00_0001	8307	1PCT_100yr	5210.00	59.19	77.16	70.59	77.62	0.001185	5.46	955.28	266.66	0.31
E117-00-00_0001	7608	10PCT_10yr	3280.00	57.72	72.96	67.53	73.32	0.001201	4.80	683.88	88.22	0.30
E117-00-00_0001	7608	2PCT_50yr	4720.00	57.72	75.41	69.02	75.83	0.001075	5.16	928.90	168.46	0.30
E117-00-00_0001	7608	1PCT_100yr	5390.00	57.72	76.43	69.51	76.85	0.001003	5.26	1075.73	270.15	0.29
E117-00-00_0001	6350	10PCT_10yr	3330.00	56.46	72.47	61.83	72.60	0.000285	2.89	1152.52	105.42	0.15
E117-00-00_0001	6350	2PCT_50yr	4800.00	56.46	74.90	63.21	75.08	0.000322	3.38	1439.76	441.89	0.17
E117-00-00_0001	6350	1PCT_100yr	5490.00	56.46	75.97	63.79	76.15	0.000301	3.41	2214.56	984.62	0.16
E117-00-00_0001	5648	10PCT_10yr	3480.00	55.83	72.03	63.91	72.29	0.000684	4.14	841.07	86.89	0.23
E117-00-00_0001	5648	2PCT_50yr	5020.00	55.83	74.36	65.47	74.71	0.000766	4.75	1056.45	203.07	0.26
E117-00-00_0001	5648	1PCT_100yr	5760.00	55.83	75.48	66.14	75.82	0.000714	4.72	1534.19	667.57	0.27
E117-00-00_0001	4948	10PCT_10yr	3480.00	56.53	71.46	64.61	71.73	0.000968	4.17	834.95	115.71	0.27
E117-00-00_0001	4948	2PCT_50yr	5020.00	56.53	73.83	66.33	74.12	0.000886	4.36	1293.29	432.33	0.27
E117-00-00_0001	4948	1PCT_100yr	5760.00	56.53	75.11	67.05	75.32	0.000591	3.90	2568.64	1418.44	0.22
E117-00-00_0001	4548	10PCT_10yr	3480.00	56.93	70.84	65.42	71.23	0.001355	5.02	693.07	94.95	0.32
E117-00-00_0001	4548	2PCT_50yr	5020.00	56.93	73.20	66.94	73.67	0.001141	5.50	913.45	115.74	0.31
E117-00-00_0001	4548	1PCT_100yr	5760.00	56.93	74.53	67.56	74.96	0.001008	5.30	1380.64	901.24	0.29
E117-00-00_0001	4493		Bridge									
E117-00-00_0001	4435	10PCT_10yr	3480.00	56.60	70.32	65.10	70.73	0.001461	5.15	675.62	93.27	0.33
E117-00-00_0001	4435	2PCT_50yr	5020.00	56.60	72.69	66.61	73.18	0.001212	5.60	896.96	114.19	0.32
E117-00-00_0001	4435	1PCT_100yr	5760.00	56.60	73.71	67.23	74.18	0.001375	5.52	1063.26	256.29	0.33
E117-00-00_0001	4329	10PCT_10yr	3480.00	56.42	70.17	64.55	70.58	0.001423	5.12	679.72	92.23	0.33
E117-00-00_0001	4329	2PCT_50yr	5020.00	56.42	72.57	66.10	73.03	0.001399	5.41	928.70	115.27	0.34
E117-00-00_0001	4329	1PCT_100yr	5760.00	56.42	73.58	66.74	74.03	0.001294	5.44	1198.17	507.19	0.33
E117-00-00_0001	3917	10PCT_10yr	3570.00	55.71	69.59	63.97	70.01	0.001345	5.20	686.18	86.60	0.33
E117-00-00_0001	3917	2PCT_50yr	5160.00	55.71	71.96	65.53	72.46	0.001329	5.70	905.48	98.70	0.33
E117-00-00_0001	3917	1PCT_100yr	5930.00	55.71	72.95	66.18	73.49	0.001296	5.89	1019.89	163.28	0.33

E117-00-00 Mitigated
HEC-RAS Output

HEC-RAS Plan: Mitigated River: E117-00-00 Reach: E117-00-00_0001 (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
E117-00-00_0001	3579	10PCT_10yr	3570.00	55.87	68.76	63.84	69.42	0.002169	6.49	549.85	68.96	0.41
E117-00-00_0001	3579	2PCT_50yr	5160.00	55.87	71.05	65.55	71.85	0.002327	7.16	721.09	109.27	0.43
E117-00-00_0001	3579	1PCT_100yr	5930.00	55.87	72.02	66.31	72.85	0.002630	7.33	809.44	220.32	0.45
E117-00-00_0001	3373	10PCT_10yr	3570.00	55.96	68.53	63.25	68.96	0.001335	5.29	674.46	82.41	0.33
E117-00-00_0001	3373	2PCT_50yr	5160.00	55.96	70.82	64.62	71.36	0.001356	5.91	873.20	95.27	0.34
E117-00-00_0001	3373	1PCT_100yr	5930.00	55.96	71.76	65.24	72.35	0.001376	6.18	960.28	153.43	0.34
E117-00-00_0001	3353.5		Bridge									
E117-00-00_0001	3333	10PCT_10yr	3570.00	55.58	67.96	62.87	68.41	0.001425	5.42	658.94	81.70	0.34
E117-00-00_0001	3333	2PCT_50yr	5160.00	55.58	70.61	64.24	71.13	0.001292	5.81	888.40	91.55	0.33
E117-00-00_0001	3333	1PCT_100yr	5930.00	55.58	71.53	64.86	72.11	0.001320	6.08	974.86	144.23	0.33
E117-00-00_0001	3233	10PCT_10yr	3570.00	54.69	67.51		68.17	0.002223	6.55	544.66	68.60	0.41
E117-00-00_0001	3233	2PCT_50yr	5160.00	54.69	70.15		70.90	0.002301	6.92	745.56	89.89	0.42
E117-00-00_0001	3233	1PCT_100yr	5930.00	54.69	71.09		71.87	0.002444	7.09	836.60	102.64	0.44
E117-00-00_0001	2832	10PCT_10yr	3670.00	51.10	67.22		67.55	0.000870	4.60	797.62	84.74	0.26
E117-00-00_0001	2832	2PCT_50yr	5320.00	51.10	69.83		70.24	0.000922	5.13	1036.43	97.87	0.28
E117-00-00_0001	2832	1PCT_100yr	6120.00	51.10	70.73		71.19	0.000977	5.43	1127.47	126.59	0.29
E117-00-00_0001	2658	10PCT_10yr	3670.00	50.61	67.02	60.39	67.37	0.001049	4.79	766.75	90.34	0.29
E117-00-00_0001	2658	2PCT_50yr	5320.00	50.61	69.66	62.05	70.08	0.000967	5.23	1018.11	126.59	0.29
E117-00-00_0001	2658	1PCT_100yr	6120.00	50.61	70.57	62.74	71.01	0.001007	5.39	1314.53	481.10	0.29
E117-00-00_0001	2631		Bridge									
E117-00-00_0001	2604	10PCT_10yr	3670.00	50.54	66.82	60.32	67.19	0.001093	4.86	755.13	89.66	0.30
E117-00-00_0001	2604	2PCT_50yr	5320.00	50.54	69.22	61.96	69.67	0.001077	5.42	981.48	102.35	0.30
E117-00-00_0001	2604	1PCT_100yr	6120.00	50.54	70.15	62.64	70.64	0.001135	5.63	1164.01	388.58	0.31
E117-00-00_0001	2502	10PCT_10yr	3670.00	50.52	66.73		67.07	0.000911	4.70	780.72	82.24	0.27
E117-00-00_0001	2502	2PCT_50yr	5320.00	50.52	69.12		69.56	0.001011	5.36	996.60	105.24	0.29
E117-00-00_0001	2502	1PCT_100yr	6120.00	50.52	70.04		70.53	0.001030	5.65	1115.13	163.63	0.30
E117-00-00_0001	1628	10PCT_10yr	3740.00	50.33	65.74	58.38	66.16	0.001174	5.22	716.69	77.89	0.30
E117-00-00_0001	1628	2PCT_50yr	5420.00	50.33	67.97	60.28	68.53	0.001371	6.00	903.66	90.01	0.33
E117-00-00_0001	1628	1PCT_100yr	6240.00	50.33	68.87	61.09	69.47	0.001392	6.28	1071.89	373.90	0.34
E117-00-00_0001	922	10PCT_10yr	3823.00	51.40	64.21	60.19	64.93	0.002669	6.84	558.89	77.03	0.45
E117-00-00_0001	922	2PCT_50yr	5551.00	51.40	66.24	61.90	67.15	0.002782	7.65	725.90	87.34	0.47
E117-00-00_0001	922	1PCT_100yr	6398.00	51.40	67.08	62.62	68.07	0.002834	7.98	801.31	118.71	0.48
E117-00-00_0001	243	10PCT_10yr	3823.00	50.17	60.70		62.14	0.006663	9.63	397.14	65.04	0.69
E117-00-00_0001	243	2PCT_50yr	5551.00	50.17	62.09		64.06	0.007928	11.28	492.23	72.51	0.76
E117-00-00_0001	243	1PCT_100yr	6398.00	50.17	62.82		64.95	0.007918	11.69	547.10	76.25	0.77
E117-00-00_0001	133	10PCT_10yr	3823.00	49.97	60.33	58.29	61.12	0.004165	7.16	534.25	99.39	0.54
E117-00-00_0001	133	2PCT_50yr	5551.00	49.97	61.74	59.44	62.77	0.004319	8.17	679.32	106.15	0.57
E117-00-00_0001	133	1PCT_100yr	6398.00	49.97	62.53	59.95	63.61	0.004059	8.37	764.72	109.94	0.56
E117-00-00_0001	122.5		Inl Struct									
E117-00-00_0001	111	10PCT_10yr	3823.00	45.16	54.70	53.24	56.32	0.001201	10.23	373.78	68.26	0.77
E117-00-00_0001	111	2PCT_50yr	5551.00	45.16	56.29	55.17	58.29	0.001202	11.36	488.58	76.19	0.79
E117-00-00_0001	111	1PCT_100yr	6398.00	45.16	56.97	55.79	59.13	0.001202	11.81	541.57	79.59	0.80

E117-00-00 Revised Existing
HEC-RAS Output

HEC-RAS Plan: Ext 2 River: E117-00-00 Reach: E117-00-00_0001

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
E117-00-00_0001	36002	10PCT_10yr	620.00	87.71	99.18		99.20	0.000072	1.08	634.99	314.05	0.07
E117-00-00_0001	36002	2PCT_50yr	925.00	87.71	99.60		99.64	0.000125	1.49	824.33	664.39	0.10
E117-00-00_0001	36002	1PCT_100yr	1080.00	87.71	101.32		101.32	0.000028	0.81	5416.05	3799.21	0.05
E117-00-00_0001	35901	10PCT_10yr	620.00	87.92	99.14	93.97	99.18	0.000179	1.64	544.01	257.09	0.11
E117-00-00_0001	35901	2PCT_50yr	925.00	87.92	99.53	95.56	99.61	0.000307	2.24	785.25	952.66	0.15
E117-00-00_0001	35901	1PCT_100yr	1080.00	87.92	96.33	96.33	100.16	0.012821	15.71	68.73	65.14	1.00
E117-00-00_0001	35811		Culvert									
E117-00-00_0001	35718	10PCT_10yr	620.00	87.92	96.72	93.97	96.83	0.000704	2.63	246.18	77.46	0.22
E117-00-00_0001	35718	2PCT_50yr	925.00	87.92	98.09	95.00	98.23	0.000730	2.98	378.04	122.26	0.23
E117-00-00_0001	35718	1PCT_100yr	1080.00	87.92	98.45	95.00	98.61	0.000811	3.25	423.47	131.44	0.24
E117-00-00_0001	35566.	10PCT_10yr	620.00	88.22	96.72		96.75	0.000161	1.44	429.86	77.72	0.11
E117-00-00_0001	35566.	2PCT_50yr	925.00	88.22	98.09		98.13	0.000187	1.70	550.16	129.63	0.12
E117-00-00_0001	35566.	1PCT_100yr	1080.00	88.22	98.45		98.50	0.000210	1.88	628.75	368.98	0.13
E117-00-00_0001	35315	10PCT_10yr	710.00	88.72	96.65		96.70	0.000286	1.84	386.38	74.70	0.14
E117-00-00_0001	35315	2PCT_50yr	1060.00	88.72	98.00		98.07	0.000316	2.15	704.54	829.40	0.15
E117-00-00_0001	35315	1PCT_100yr	1230.00	88.72	98.35		98.43	0.000352	2.34	1040.79	1156.93	0.16
E117-00-00_0001	34437	10PCT_10yr	710.00	85.77	96.59		96.61	0.000045	1.12	667.82	220.73	0.08
E117-00-00_0001	34437	2PCT_50yr	1060.00	85.77	97.94		97.97	0.000049	1.32	1836.25	2138.21	0.08
E117-00-00_0001	34437	1PCT_100yr	1230.00	85.77	98.29		98.32	0.000053	1.41	2711.08	2910.80	0.09
E117-00-00_0001	34311	10PCT_10yr	770.00	85.35	96.29	89.20	96.53	0.000260	3.93	195.70	166.84	0.21
E117-00-00_0001	34311	2PCT_50yr	1160.00	85.35	97.81	90.42	97.93	0.000212	2.77	1127.06	1513.89	0.17
E117-00-00_0001	34311	1PCT_100yr	1330.00	85.35	98.27	90.91	98.31	0.000099	1.80	2643.84	3242.19	0.11
E117-00-00_0001	34267		Culvert									
E117-00-00_0001	34221	10PCT_10yr	770.00	82.64	96.06	86.49	96.22	0.000132	3.21	240.04	116.53	0.15
E117-00-00_0001	34221	2PCT_50yr	1160.00	82.64	97.83	87.71	97.92	0.000132	2.36	1225.01	1532.68	0.13
E117-00-00_0001	34221	1PCT_100yr	1330.00	82.64	98.28	88.20	98.31	0.000070	1.60	2761.14	3252.30	0.09
E117-00-00_0001	33907	10PCT_10yr	770.00	84.57	96.10		96.12	0.000045	1.14	877.95	531.32	0.08
E117-00-00_0001	33907	2PCT_50yr	1160.00	84.57	97.85		97.86	0.000025	0.98	4221.61	2903.19	0.06
E117-00-00_0001	33907	1PCT_100yr	1330.00	84.57	98.27		98.28	0.000023	0.98	5477.49	3145.27	0.06
E117-00-00_0001	33675	10PCT_10yr	850.00	86.00	96.06		96.10	0.000105	1.66	700.55	667.98	0.12
E117-00-00_0001	33675	2PCT_50yr	1280.00	86.00	97.82		97.85	0.000061	1.46	3768.86	3088.70	0.09
E117-00-00_0001	33675	1PCT_100yr	1470.00	86.00	98.25		98.28	0.000055	1.44	5220.46	3615.11	0.09
E117-00-00_0001	32920	10PCT_10yr	870.00	82.84	95.99		96.02	0.000115	1.42	906.12	903.71	0.09
E117-00-00_0001	32920	2PCT_50yr	1310.00	82.84	97.79		97.80	0.000051	1.10	5346.60	3437.42	0.06
E117-00-00_0001	32920	1PCT_100yr	1500.00	82.84	98.24		98.25	0.000040	1.01	6955.85	3715.58	0.06
E117-00-00_0001	32902	10PCT_10yr	870.00	88.13	95.92		96.01	0.000844	3.03	583.27	1151.92	0.24
E117-00-00_0001	32902	2PCT_50yr	1310.00	88.13	97.79		97.80	0.000041	0.82	4901.35	3481.85	0.05
E117-00-00_0001	32902	1PCT_100yr	1500.00	88.13	98.24		98.24	0.000029	0.72	6521.41	3747.21	0.05
E117-00-00_0001	32836	10PCT_10yr	870.00	88.47	95.06	93.69	95.72	0.005654	6.56	133.86	41.38	0.58
E117-00-00_0001	32836	2PCT_50yr	1310.00	88.47	97.68	94.74	97.76	0.000652	3.13	1028.14	2667.58	0.22
E117-00-00_0001	32836	1PCT_100yr	1500.00	88.47	98.19	95.15	98.23	0.000347	2.41	1610.60	3311.75	0.16
E117-00-00_0001	32825.5		Bridge									
E117-00-00_0001	32811	10PCT_10yr	870.00	88.43	94.64	93.64	95.46	0.007836	7.27	119.70	34.33	0.68
E117-00-00_0001	32811	2PCT_50yr	1310.00	88.43	97.64	94.68	97.73	0.000648	3.13	1030.90	2668.91	0.22
E117-00-00_0001	32811	1PCT_100yr	1500.00	88.43	98.15	95.10	98.19	0.000344	2.40	1615.84	3312.83	0.16
E117-00-00_0001	32762	10PCT_10yr	977.00	87.95	94.53	92.45	95.06	0.003683	5.84	167.15	169.61	0.48
E117-00-00_0001	32762	2PCT_50yr	1444.00	87.95	97.67	93.46	97.68	0.000093	1.23	5261.52	2881.22	0.08
E117-00-00_0001	32762	1PCT_100yr	1680.00	87.95	98.16	93.91	98.17	0.000075	1.16	6743.68	3131.42	0.07
E117-00-00_0001	32747.5		Bridge									
E117-00-00_0001	32734	10PCT_10yr	977.00	87.95	94.09	92.45	94.74	0.004864	6.45	151.36	35.16	0.55
E117-00-00_0001	32734	2PCT_50yr	1444.00	87.95	97.04	93.43	97.06	0.000198	1.69	3646.18	2399.32	0.12
E117-00-00_0001	32734	1PCT_100yr	1680.00	87.95	97.37	93.88	97.38	0.000178	1.66	4448.23	2580.42	0.11
E117-00-00_0001	32700	10PCT_10yr	977.00	87.29	94.17	90.94	94.45	0.002162	4.26	229.22	128.42	0.32
E117-00-00_0001	32700	2PCT_50yr	1444.00	87.29	97.04	91.81	97.05	0.000106	1.14	4799.38	3352.46	0.07
E117-00-00_0001	32700	1PCT_100yr	1680.00	87.29	97.37	92.24	97.37	0.000104	1.16	5880.97	3370.34	0.07
E117-00-00_0001	32652		Culvert									
E117-00-00_0001	32602	10PCT_10yr	980.00	83.50	93.85	87.15	93.96	0.000447	2.65	369.79	110.48	0.16
E117-00-00_0001	32602	2PCT_50yr	1440.00	83.50	95.83	88.02	95.87	0.000198	1.77	1649.12	1321.69	0.10
E117-00-00_0001	32602	1PCT_100yr	1680.00	83.50	96.41	88.43	96.43	0.000156	1.64	2910.81	3026.75	0.09

E117-00-00 Revised Existing
HEC-RAS Output

HEC-RAS Plan: Ext 2 River: E117-00-00 Reach: E117-00-00_0001 (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
E117-00-00_0001	32588	10PCT_10yr	1000.00	83.50	93.83	87.36	93.94	0.000469	2.70	370.36	72.26	0.16
E117-00-00_0001	32588	2PCT_50yr	1480.00	83.50	95.65	88.22	95.82	0.000554	3.32	445.72	148.99	0.18
E117-00-00_0001	32588	1PCT_100yr	1730.00	83.50	96.26	88.62	96.39	0.000792	3.00	673.79	451.75	0.20
E117-00-00_0001	31272		Culvert									
E117-00-00_0001	29960	10PCT_10yr	1000.00	78.27	92.97	81.72	92.98	0.000004	0.88	1836.14	1668.48	0.05
E117-00-00_0001	29960	2PCT_50yr	1480.00	78.27	93.76	82.51	93.78	0.000007	1.18	3593.34	2401.74	0.07
E117-00-00_0001	29960	1PCT_100yr	1730.00	78.27	94.03	82.84	94.06	0.000009	1.32	4247.97	2474.96	0.07
E117-00-00_0001	29924	10PCT_10yr	1040.00	78.27	92.95	82.50	92.97	0.000009	1.25	1621.72	1411.16	0.07
E117-00-00_0001	29924	2PCT_50yr	1540.00	78.27	93.75	83.44	93.78	0.000012	1.54	2915.55	1750.02	0.08
E117-00-00_0001	29924	1PCT_100yr	1810.00	78.27	94.01	83.88	94.04	0.000014	1.69	3376.68	1796.26	0.09
E117-00-00_0001	29890.5		Bridge									
E117-00-00_0001	29852	10PCT_10yr	1040.00	78.17	92.91	82.36	92.94	0.000032	1.33	1222.27	919.93	0.09
E117-00-00_0001	29852	2PCT_50yr	1540.00	78.17	93.70	83.36	93.73	0.000060	1.49	2292.76	1626.06	0.10
E117-00-00_0001	29852	1PCT_100yr	1810.00	78.17	93.96	83.82	93.99	0.000063	1.57	2730.04	1658.79	0.11
E117-00-00_0001	29805	10PCT_10yr	1040.00	78.17	92.92	81.17	92.92	0.000006	0.74	1628.00	396.76	0.04
E117-00-00_0001	29805	2PCT_50yr	1540.00	78.17	93.70	81.91	93.72	0.000010	0.98	1943.43	406.21	0.06
E117-00-00_0001	29805	1PCT_100yr	1810.00	78.17	93.97	82.27	93.98	0.000012	1.11	2051.52	409.52	0.07
E117-00-00_0001	29680		Bridge									
E117-00-00_0001	29542	10PCT_10yr	1040.00	78.12	92.81	80.90	92.82	0.000007	0.77	1563.79	365.71	0.05
E117-00-00_0001	29542	2PCT_50yr	1540.00	78.12	93.62	81.62	93.64	0.000011	1.02	1867.41	377.78	0.06
E117-00-00_0001	29542	1PCT_100yr	1810.00	78.12	93.90	81.97	93.92	0.000014	1.15	1972.01	381.49	0.07
E117-00-00_0001	29500	10PCT_10yr	1040.00	78.40	92.78	82.09	92.80	0.000019	1.23	1375.76	859.27	0.07
E117-00-00_0001	29500	2PCT_50yr	1540.00	78.40	93.60	83.01	93.63	0.000027	1.53	2216.96	1210.45	0.09
E117-00-00_0001	29500	1PCT_100yr	1810.00	78.40	93.88	83.44	93.92	0.000031	1.69	2559.71	1263.71	0.09
E117-00-00_0001	29462		Bridge									
E117-00-00_0001	29416	10PCT_10yr	1040.00	79.20	92.76	83.87	92.78	0.000081	1.29	1466.23	1106.09	0.08
E117-00-00_0001	29416	2PCT_50yr	1540.00	79.20	93.54	84.85	93.57	0.000084	1.40	2352.77	1193.17	0.08
E117-00-00_0001	29416	1PCT_100yr	1810.00	79.20	93.84	85.30	93.86	0.000090	1.48	2710.40	1250.73	0.09
E117-00-00_0001	29325	10PCT_10yr	1040.00	78.77	92.74		92.77	0.000108	1.56	1335.58	880.15	0.09
E117-00-00_0001	29325	2PCT_50yr	1540.00	78.77	93.53		93.55	0.000105	1.61	2040.69	965.47	0.09
E117-00-00_0001	29325	1PCT_100yr	1810.00	78.77	93.82		93.85	0.000109	1.67	2341.35	1063.70	0.09
E117-00-00_0001	29185	10PCT_10yr	1040.00	78.00	92.73		92.76	0.000117	1.60	1115.33	821.77	0.10
E117-00-00_0001	29185	2PCT_50yr	1540.00	78.00	93.51		93.54	0.000123	1.72	1815.39	962.21	0.10
E117-00-00_0001	29185	1PCT_100yr	1810.00	78.00	93.80		93.83	0.000130	1.81	2096.76	977.29	0.10
E117-00-00_0001	29088	10PCT_10yr	1064.00	78.09	92.72	80.46	92.75	0.000010	1.38	1241.15	760.92	0.06
E117-00-00_0001	29088	2PCT_50yr	1583.00	78.09	93.49	81.18	93.54	0.000016	1.81	1869.58	927.69	0.08
E117-00-00_0001	29088	1PCT_100yr	1868.00	78.09	93.77	81.55	93.83	0.000020	2.03	2158.32	1181.53	0.09
E117-00-00_0001	28999.5		Culvert									
E117-00-00_0001	28900	10PCT_10yr	1064.00	78.09	92.70	80.47	92.73	0.000011	1.43	857.55	385.74	0.07
E117-00-00_0001	28900	2PCT_50yr	1583.00	78.09	93.46	81.18	93.53	0.000019	2.00	1445.21	1030.07	0.09
E117-00-00_0001	28900	1PCT_100yr	1868.00	78.09	93.74	81.55	93.82	0.000025	2.29	1739.96	1109.10	0.10
E117-00-00_0001	28800	10PCT_10yr	1064.00	78.49	92.67		92.72	0.000159	1.89	915.76	534.23	0.11
E117-00-00_0001	28800	2PCT_50yr	1583.00	78.49	93.45		93.52	0.000218	2.34	1495.78	1022.79	0.13
E117-00-00_0001	28800	1PCT_100yr	1868.00	78.49	93.74		93.81	0.000246	2.53	1798.97	1073.50	0.14
E117-00-00_0001	28684	10PCT_10yr	1064.00	79.05	92.60	85.48	92.69	0.000363	2.48	625.80	459.84	0.16
E117-00-00_0001	28684	2PCT_50yr	1583.00	79.05	93.36	86.68	93.48	0.000470	3.01	935.95	713.39	0.19
E117-00-00_0001	28684	1PCT_100yr	1868.00	79.05	93.63	87.24	93.77	0.000537	3.29	1054.91	762.92	0.20
E117-00-00_0001	28302	10PCT_10yr	1064.00	78.76	92.46	85.20	92.55	0.000354	2.48	581.64	577.77	0.16
E117-00-00_0001	28302	2PCT_50yr	1583.00	78.76	93.17	86.39	93.29	0.000472	3.05	927.72	749.13	0.19
E117-00-00_0001	28302	1PCT_100yr	1868.00	78.76	93.41	86.95	93.56	0.000549	3.35	1058.80	881.00	0.20
E117-00-00_0001	27886	10PCT_10yr	1064.00	77.29	92.38	83.46	92.44	0.000202	2.04	577.37	1032.48	0.12
E117-00-00_0001	27886	2PCT_50yr	1583.00	77.29	93.02	84.53	93.12	0.000308	2.64	892.79	2012.64	0.15
E117-00-00_0001	27886	1PCT_100yr	1868.00	77.29	93.24	85.05	93.36	0.000374	2.95	1007.40	2101.16	0.17
E117-00-00_0001	27836		Culvert									
E117-00-00_0001	27778	10PCT_10yr	1064.00	77.52	90.99	83.14	91.08	0.000289	2.32	459.31	56.80	0.14
E117-00-00_0001	27778	2PCT_50yr	1583.00	77.52	92.21	84.19	92.34	0.000414	2.98	545.25	651.88	0.17
E117-00-00_0001	27778	1PCT_100yr	1868.00	77.52	92.68	84.67	92.85	0.000481	3.33	599.92	1666.43	0.19

E117-00-00 Revised Existing
HEC-RAS Output

HEC-RAS Plan: Ext 2 River: E117-00-00 Reach: E117-00-00_0001 (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
E117-00-00_0001	27568	10PCT_10yr	1064.00	77.52	90.93	83.14	91.01	0.000295	2.32	459.00	127.91	0.15
E117-00-00_0001	27568	2PCT_50yr	1583.00	77.52	92.12	84.19	92.26	0.000410	2.98	555.31	1075.05	0.17
E117-00-00_0001	27568	1PCT_100yr	1868.00	77.52	92.58	84.67	92.75	0.000476	3.32	613.31	1795.79	0.19
E117-00-00_0001	27267	10PCT_10yr	1340.00	77.64	90.72	84.35	90.87	0.000658	3.17	468.32	737.70	0.22
E117-00-00_0001	27267	2PCT_50yr	2270.00	77.64	91.79	86.14	92.05	0.001026	4.23	822.95	1655.36	0.27
E117-00-00_0001	27267	1PCT_100yr	2800.00	77.64	92.21	86.97	92.50	0.001189	4.68	1001.26	1806.69	0.30
E117-00-00_0001	25938	10PCT_10yr	1586.00	76.12	89.93		90.06	0.000566	2.96	2084.27	1995.06	0.20
E117-00-00_0001	25938	2PCT_50yr	2483.00	76.12	90.93		91.03	0.000553	3.09	4178.57	2281.58	0.20
E117-00-00_0001	25938	1PCT_100yr	3004.00	76.12	91.27		91.37	0.000591	3.27	4986.95	2470.97	0.21
E117-00-00_0001	24962	10PCT_10yr	1640.00	77.55	89.48		89.56	0.000443	2.65	1431.91	933.23	0.18
E117-00-00_0001	24962	2PCT_50yr	2510.00	77.55	90.54		90.60	0.000347	2.57	3128.42	2193.05	0.16
E117-00-00_0001	24962	1PCT_100yr	3020.00	77.55	90.85		90.91	0.000377	2.75	3833.81	2364.95	0.17
E117-00-00_0001	24075	10PCT_10yr	1720.00	74.54	88.70	83.02	88.96	0.001065	4.08	425.45	117.71	0.27
E117-00-00_0001	24075	2PCT_50yr	2550.00	74.54	90.00	84.45	90.16	0.000714	3.74	2025.68	2255.74	0.23
E117-00-00_0001	24075	1PCT_100yr	3030.00	74.54	90.34	85.15	90.47	0.000655	3.67	2835.73	2545.95	0.22
E117-00-00_0001	23347	10PCT_10yr	1720.00	74.56	87.63		87.99	0.001665	4.80	358.14	55.90	0.33
E117-00-00_0001	23347	2PCT_50yr	2550.00	74.56	88.87		89.32	0.001941	5.57	836.21	1286.86	0.37
E117-00-00_0001	23347	1PCT_100yr	3030.00	74.56	89.33		89.71	0.001700	5.44	1543.72	1986.86	0.35
E117-00-00_0001	22996	10PCT_10yr	1770.00	74.57	87.64	79.79	87.70	0.000175	1.86	949.23	237.52	0.12
E117-00-00_0001	22996	2PCT_50yr	2570.00	74.57	88.89	80.83	88.97	0.000212	2.22	1410.99	1038.60	0.14
E117-00-00_0001	22996	1PCT_100yr	3040.00	74.57	89.29	81.32	89.38	0.000249	2.46	1573.50	1407.62	0.15
E117-00-00_0001	22931		Bridge									
E117-00-00_0001	22854	10PCT_10yr	1770.00	75.19	87.43	80.41	87.50	0.000256	2.10	841.48	213.63	0.15
E117-00-00_0001	22854	2PCT_50yr	2570.00	75.19	88.51	81.45	88.59	0.000305	2.41	1294.04	482.48	0.17
E117-00-00_0001	22854	1PCT_100yr	3040.00	75.19	88.81	81.94	88.91	0.000353	2.65	1445.95	546.04	0.18
E117-00-00_0001	22615	10PCT_10yr	1770.00	74.69	87.19		87.38	0.000775	3.47	524.19	128.52	0.24
E117-00-00_0001	22615	2PCT_50yr	2570.00	74.69	88.29		88.46	0.000717	3.65	1264.08	1145.92	0.24
E117-00-00_0001	22615	1PCT_100yr	3040.00	74.69	88.63		88.78	0.000683	3.67	1675.34	1360.92	0.23
E117-00-00_0001	22223	10PCT_10yr	1840.00	73.87	86.95		87.10	0.000607	3.21	677.86	435.75	0.21
E117-00-00_0001	22223	2PCT_50yr	2600.00	73.87	88.13		88.23	0.000400	2.88	1898.10	1526.46	0.18
E117-00-00_0001	22223	1PCT_100yr	3050.00	73.87	88.48		88.56	0.000379	2.89	2468.96	1816.57	0.17
E117-00-00_0001	21280	10PCT_10yr	1910.00	73.13	86.07		86.33	0.001122	4.24	506.95	186.06	0.28
E117-00-00_0001	21280	2PCT_50yr	2630.00	73.13	87.52		87.71	0.000791	3.94	1520.49	1543.56	0.24
E117-00-00_0001	21280	1PCT_100yr	3070.00	73.13	87.95		88.10	0.000680	3.78	2242.16	1745.20	0.23
E117-00-00_0001	20308	10PCT_10yr	1988.00	71.38	84.28		84.76	0.002420	5.52	360.02	62.26	0.40
E117-00-00_0001	20308	2PCT_50yr	2665.00	71.38	86.16		86.59	0.001735	5.31	663.49	686.30	0.35
E117-00-00_0001	20308	1PCT_100yr	3078.00	71.38	86.98		87.25	0.001141	4.63	1452.06	1177.00	0.29
E117-00-00_0001	19566	10PCT_10yr	1988.00	71.00	83.64		83.82	0.000660	3.43	580.09	79.67	0.22
E117-00-00_0001	19566	2PCT_50yr	2665.00	71.00	85.62		85.82	0.000596	3.57	748.16	114.05	0.22
E117-00-00_0001	19566	1PCT_100yr	3078.00	71.00	86.43		86.64	0.000585	3.68	1019.54	575.23	0.22
E117-00-00_0001	19349	10PCT_10yr	2050.00	71.07	83.47	77.65	83.66	0.000835	3.52	581.60	88.33	0.24
E117-00-00_0001	19349	2PCT_50yr	2760.00	71.07	85.48	78.65	85.68	0.000704	3.58	771.91	102.08	0.22
E117-00-00_0001	19349	1PCT_100yr	3180.00	71.07	86.30	79.16	86.49	0.000700	3.56	1280.80	1204.01	0.22
E117-00-00_0001	19322		Bridge									
E117-00-00_0001	19290	10PCT_10yr	2050.00	71.31	83.36	77.89	83.57	0.000952	3.72	551.26	85.96	0.26
E117-00-00_0001	19290	2PCT_50yr	2760.00	71.31	85.28	78.89	85.51	0.000850	3.78	729.37	99.11	0.24
E117-00-00_0001	19290	1PCT_100yr	3180.00	71.31	85.99	79.37	86.23	0.000913	3.97	807.42	323.61	0.25
E117-00-00_0001	19077	10PCT_10yr	2050.00	70.77	83.18	77.27	83.38	0.000799	3.62	565.72	83.13	0.24
E117-00-00_0001	19077	2PCT_50yr	2760.00	70.77	85.12	78.23	85.34	0.000711	3.73	739.00	531.28	0.24
E117-00-00_0001	19077	1PCT_100yr	3180.00	70.77	85.81	78.77	86.05	0.000750	3.95	809.26	661.91	0.24
E117-00-00_0001	18678	10PCT_10yr	2130.00	69.75	82.95	77.35	83.10	0.000588	3.11	685.71	101.69	0.21
E117-00-00_0001	18678	2PCT_50yr	2880.00	69.75	84.93	78.09	85.09	0.000505	3.20	898.87	124.92	0.20
E117-00-00_0001	18678	1PCT_100yr	3320.00	69.75	85.60	78.51	85.78	0.000533	3.40	976.78	576.17	0.21
E117-00-00_0001	17828	10PCT_10yr	2240.00	68.55	82.43		82.58	0.000616	3.13	716.23	108.61	0.21
E117-00-00_0001	17828	2PCT_50yr	3040.00	68.55	84.50		84.66	0.000503	3.19	1008.95	213.13	0.20
E117-00-00_0001	17828	1PCT_100yr	3500.00	68.55	85.15		85.33	0.000530	3.38	1198.88	513.88	0.21
E117-00-00_0001	17658	10PCT_10yr	2240.00	67.38	82.40	73.95	82.49	0.000289	2.42	926.59	217.56	0.15
E117-00-00_0001	17658	2PCT_50yr	3040.00	67.38	84.46	75.03	84.56	0.000262	2.57	1182.39	459.03	0.15
E117-00-00_0001	17658	1PCT_100yr	3500.00	67.38	85.13	75.61	85.22	0.000242	2.50	2042.51	809.94	0.14
E117-00-00_0001	17630		Bridge									

E117-00-00 Revised Existing
HEC-RAS Output

HEC-RAS Plan: Ext 2 River: E117-00-00 Reach: E117-00-00_0001 (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
E117-00-00_0001	17597	10PCT_10yr	2240.00	68.55	82.32	75.12	82.45	0.000454	2.86	784.51	202.76	0.19
E117-00-00_0001	17597	2PCT_50yr	3040.00	68.55	84.33	76.20	84.46	0.000414	2.99	1017.45	397.29	0.18
E117-00-00_0001	17597	1PCT_100yr	3500.00	68.55	85.04	76.75	85.15	0.000359	2.87	1739.09	584.31	0.17
E117-00-00_0001	17414	10PCT_10yr	2240.00	68.30	82.21		82.35	0.000584	2.98	751.03	118.36	0.21
E117-00-00_0001	17414	2PCT_50yr	3040.00	68.30	84.24		84.38	0.000474	3.02	1064.22	389.65	0.19
E117-00-00_0001	17414	1PCT_100yr	3500.00	68.30	84.91		85.06	0.000483	3.17	1493.90	895.61	0.20
E117-00-00_0001	16773	10PCT_10yr	2340.00	67.42	81.85		81.99	0.000549	3.04	769.11	111.39	0.20
E117-00-00_0001	16773	2PCT_50yr	3200.00	67.42	83.93		84.09	0.000451	3.15	1057.67	257.41	0.19
E117-00-00_0001	16773	1PCT_100yr	3670.00	67.42	84.59		84.76	0.000460	3.33	1296.80	505.80	0.20
E117-00-00_0001	16140	10PCT_10yr	2340.00	66.81	81.51		81.64	0.000560	2.89	810.22	129.94	0.20
E117-00-00_0001	16140	2PCT_50yr	3200.00	66.81	83.70		83.81	0.000379	2.74	1611.42	630.46	0.17
E117-00-00_0001	16140	1PCT_100yr	3670.00	66.81	84.37		84.49	0.000362	2.84	2131.25	1170.09	0.17
E117-00-00_0001	15781	10PCT_10yr	2460.00	66.46	81.37	74.61	81.47	0.000354	2.56	962.34	208.08	0.17
E117-00-00_0001	15781	2PCT_50yr	3380.00	66.46	83.58	75.39	83.69	0.000284	2.65	1913.06	804.86	0.15
E117-00-00_0001	15781	1PCT_100yr	3880.00	66.46	84.26	75.77	84.38	0.000286	2.78	2650.56	1270.07	0.16
E117-00-00_0001	15698		Bridge									
E117-00-00_0001	15619	10PCT_10yr	2460.00	66.61	81.26	74.76	81.37	0.000390	2.65	929.24	176.15	0.17
E117-00-00_0001	15619	2PCT_50yr	3380.00	66.61	83.29	75.54	83.42	0.000340	2.80	1615.99	618.42	0.17
E117-00-00_0001	15619	1PCT_100yr	3880.00	66.61	83.89	75.93	84.03	0.000353	2.98	2049.94	981.80	0.17
E117-00-00_0001	15364	10PCT_10yr	2460.00	66.44	81.18		81.27	0.000279	2.32	1059.46	141.67	0.15
E117-00-00_0001	15364	2PCT_50yr	3380.00	66.44	83.24		83.32	0.000205	2.25	2732.39	2257.88	0.13
E117-00-00_0001	15364	1PCT_100yr	3880.00	66.44	83.85		83.92	0.000192	2.27	4297.75	3030.32	0.13
E117-00-00_0001	15001	10PCT_10yr	2460.00	66.21	81.09		81.16	0.000247	2.13	1199.01	261.37	0.14
E117-00-00_0001	15001	2PCT_50yr	3380.00	66.21	83.18		83.24	0.000169	2.09	2486.09	1377.69	0.12
E117-00-00_0001	15001	1PCT_100yr	3880.00	66.21	83.80		83.86	0.000159	2.11	3931.02	2976.49	0.12
E117-00-00_0001	14709	10PCT_10yr	2590.00	66.02	80.99	72.67	81.08	0.000285	2.37	1101.69	274.11	0.15
E117-00-00_0001	14709	2PCT_50yr	3580.00	66.02	83.11	73.74	83.18	0.000195	2.29	2420.72	1516.86	0.13
E117-00-00_0001	14709	1PCT_100yr	4100.00	66.02	83.75	74.22	83.81	0.000168	2.22	3681.94	2222.98	0.12
E117-00-00_0001	14698.5		Bridge									
E117-00-00_0001	14681	10PCT_10yr	2590.00	66.02	80.96	72.66	81.04	0.000289	2.38	1092.10	226.85	0.15
E117-00-00_0001	14681	2PCT_50yr	3580.00	66.02	83.07	73.73	83.14	0.000205	2.35	2358.92	1452.65	0.13
E117-00-00_0001	14681	1PCT_100yr	4100.00	66.02	83.70	74.22	83.77	0.000182	2.30	3570.67	2185.81	0.13
E117-00-00_0001	14156	10PCT_10yr	2590.00	66.74	80.59	73.90	80.79	0.000622	3.64	710.95	235.15	0.22
E117-00-00_0001	14156	2PCT_50yr	3580.00	66.74	82.68	75.01	82.93	0.000567	4.00	898.67	1514.57	0.22
E117-00-00_0001	14156	1PCT_100yr	4100.00	66.74	83.42	75.54	83.59	0.000466	3.58	4278.24	3197.22	0.20
E117-00-00_0001	14121.5		Bridge									
E117-00-00_0001	14083	10PCT_10yr	2590.00	66.57	80.49	73.73	80.69	0.000608	3.62	715.12	233.59	0.22
E117-00-00_0001	14083	2PCT_50yr	3580.00	66.57	82.48	74.84	82.69	0.000573	3.75	2234.30	1242.27	0.22
E117-00-00_0001	14083	1PCT_100yr	4100.00	66.57	83.18	75.36	83.38	0.000527	3.77	3575.29	2749.66	0.21
E117-00-00_0001	13877.0	10PCT_10yr	2590.00	65.99	80.24		80.51	0.000950	4.18	620.05	82.42	0.27
E117-00-00_0001	13877.0	2PCT_50yr	3580.00	65.99	82.29		82.54	0.000886	4.14	1495.48	1510.21	0.26
E117-00-00_0001	13877.0	1PCT_100yr	4100.00	65.99	83.06		83.24	0.000662	3.73	3062.36	2644.19	0.23
E117-00-00_0001	13580	10PCT_10yr	2760.00	65.15	79.98		80.24	0.000878	4.12	685.85	147.63	0.26
E117-00-00_0001	13580	2PCT_50yr	3850.00	65.15	82.10		82.32	0.000634	3.96	1907.61	1455.47	0.23
E117-00-00_0001	13580	1PCT_100yr	4400.00	65.15	82.93		83.07	0.000452	3.54	4045.13	3483.36	0.19
E117-00-00_0001	12476	10PCT_10yr	2760.00	65.09	79.15		79.31	0.000763	3.20	863.18	151.56	0.24
E117-00-00_0001	12476	2PCT_50yr	3850.00	65.09	81.66		81.76	0.000369	2.68	2384.31	1238.70	0.17
E117-00-00_0001	12476	1PCT_100yr	4400.00	65.09	82.61		82.68	0.000251	2.39	4378.52	2878.30	0.14
E117-00-00_0001	12164	10PCT_10yr	2900.00	65.07	78.58	73.37	78.94	0.001309	4.80	604.28	147.06	0.31
E117-00-00_0001	12164	2PCT_50yr	4070.00	65.07	81.32	74.63	81.56	0.000731	4.18	1794.97	1313.82	0.24
E117-00-00_0001	12164	1PCT_100yr	4640.00	65.07	82.48	75.18	82.58	0.000349	3.10	4419.68	3085.81	0.17
E117-00-00_0001	12151		Bridge									
E117-00-00_0001	12138	10PCT_10yr	2900.00	64.71	78.53	73.01	78.86	0.001166	4.60	630.42	141.89	0.30
E117-00-00_0001	12138	2PCT_50yr	4070.00	64.71	81.13	74.25	81.39	0.000744	4.25	1650.30	1184.61	0.25
E117-00-00_0001	12138	1PCT_100yr	4640.00	64.71	82.26	74.79	82.38	0.000384	3.27	3876.73	2291.27	0.18
E117-00-00_0001	11757	10PCT_10yr	2900.00	63.81	78.20		78.45	0.000842	4.04	717.07	91.95	0.26
E117-00-00_0001	11757	2PCT_50yr	4070.00	63.81	80.86		81.10	0.000715	3.99	1365.49	808.56	0.24
E117-00-00_0001	11757	1PCT_100yr	4640.00	63.81	82.05		82.21	0.000453	3.46	2891.97	1814.07	0.20

E117-00-00 Revised Existing
HEC-RAS Output

HEC-RAS Plan: Ext 2 River: E117-00-00 Reach: E117-00-00_0001 (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
E117-00-00_0001	11096	10PCT_10yr	3036.00	63.61	77.58		77.86	0.000936	4.26	871.06	229.91	0.27
E117-00-00_0001	11096	2PCT_50yr	4289.00	63.61	80.32		80.61	0.000758	4.32	1712.62	412.54	0.25
E117-00-00_0001	11096	1PCT_100yr	4883.00	63.61	81.61		81.86	0.000591	4.08	2992.94	1540.73	0.22
E117-00-00_0001	10371	10PCT_10yr	3036.00	64.01	77.25		77.38	0.000411	2.92	1039.67	131.46	0.18
E117-00-00_0001	10371	2PCT_50yr	4289.00	64.01	80.10		80.24	0.000301	2.97	1604.09	378.86	0.16
E117-00-00_0001	10371	1PCT_100yr	4883.00	64.01	81.44		81.57	0.000241	2.88	2776.96	1478.98	0.15
E117-00-00_0001	10050	10PCT_10yr	3170.00	64.18	76.99	71.28	77.19	0.000673	3.63	872.22	111.34	0.23
E117-00-00_0001	10050	2PCT_50yr	4490.00	64.18	79.90	72.24	80.10	0.000496	3.62	1413.56	297.28	0.20
E117-00-00_0001	10050	1PCT_100yr	5120.00	64.18	81.29	72.65	81.46	0.000390	3.44	2410.97	1107.38	0.18
E117-00-00_0001	9975		Bridge									
E117-00-00_0001	9902	10PCT_10yr	3170.00	64.00	76.65	71.10	76.86	0.000715	3.71	854.25	110.73	0.24
E117-00-00_0001	9902	2PCT_50yr	4490.00	64.00	79.74	72.05	79.94	0.000492	3.61	1419.81	302.06	0.20
E117-00-00_0001	9902	1PCT_100yr	5120.00	64.00	80.93	72.46	81.11	0.000420	3.53	2215.60	1041.83	0.19
E117-00-00_0001	9794	10PCT_10yr	3170.00	62.79	76.31		76.70	0.001324	5.03	630.40	82.28	0.32
E117-00-00_0001	9794	2PCT_50yr	4490.00	62.79	79.43		79.81	0.000978	4.93	910.15	97.22	0.28
E117-00-00_0001	9794	1PCT_100yr	5120.00	62.79	80.60		80.99	0.000917	4.98	1045.67	258.95	0.28
E117-00-00_0001	9694	10PCT_10yr	3170.00	61.66	76.27		76.57	0.000910	4.38	722.99	87.39	0.27
E117-00-00_0001	9694	2PCT_50yr	4490.00	61.66	79.40		79.70	0.000720	4.40	1020.12	102.65	0.25
E117-00-00_0001	9694	1PCT_100yr	5120.00	61.66	80.59		80.89	0.000666	4.45	1254.25	420.57	0.24
E117-00-00_0001	9592	10PCT_10yr	3170.00	60.51	76.23	68.76	76.47	0.000639	3.85	823.13	92.71	0.23
E117-00-00_0001	9592	2PCT_50yr	4490.00	60.51	79.37	70.07	79.61	0.000519	3.91	1203.70	212.91	0.21
E117-00-00_0001	9592	1PCT_100yr	5120.00	60.51	80.57	70.63	80.80	0.000443	3.88	1709.72	746.27	0.20
E117-00-00_0001	9569.5		Bridge									
E117-00-00_0001	9543	10PCT_10yr	3170.00	60.26	76.17	68.49	76.39	0.000583	3.78	839.63	93.53	0.22
E117-00-00_0001	9543	2PCT_50yr	4490.00	60.26	79.02	69.82	79.26	0.000541	3.97	1160.20	176.21	0.22
E117-00-00_0001	9543	1PCT_100yr	5120.00	60.26	80.10	70.37	80.34	0.000490	4.02	1446.83	428.96	0.21
E117-00-00_0001	9418	10PCT_10yr	3170.00	60.60	76.09		76.32	0.000659	3.78	838.70	100.48	0.23
E117-00-00_0001	9418	2PCT_50yr	4490.00	60.60	78.95		79.19	0.000555	3.90	1170.88	258.19	0.22
E117-00-00_0001	9418	1PCT_100yr	5120.00	60.60	80.05		80.27	0.000468	3.84	2015.81	1225.63	0.20
E117-00-00_0001	9195	10PCT_10yr	3170.00	61.20	75.86	69.43	76.14	0.000911	4.26	744.21	94.88	0.27
E117-00-00_0001	9195	2PCT_50yr	4490.00	61.20	78.77	70.76	79.04	0.000785	4.18	1159.85	434.53	0.25
E117-00-00_0001	9195	1PCT_100yr	5120.00	61.20	79.94	71.32	80.15	0.000593	3.89	1693.79	1120.85	0.22
E117-00-00_0001	8997	10PCT_10yr	3170.00	61.74	75.70	69.07	75.95	0.000818	4.01	790.32	117.35	0.25
E117-00-00_0001	8997	2PCT_50yr	4490.00	61.74	78.68	70.39	78.88	0.000533	3.66	1414.31	503.46	0.21
E117-00-00_0001	8997	1PCT_100yr	5120.00	61.74	79.87	71.08	80.03	0.000395	3.41	1919.48	1119.45	0.19
E117-00-00_0001	8939		Bridge									
E117-00-00_0001	8856	10PCT_10yr	3170.00	63.28	75.11	70.61	75.57	0.001969	5.44	582.30	95.62	0.38
E117-00-00_0001	8856	2PCT_50yr	4490.00	63.28	77.32	71.93	77.78	0.001796	5.44	828.24	146.45	0.37
E117-00-00_0001	8856	1PCT_100yr	5120.00	63.28	78.21	72.62	78.66	0.001573	5.39	1051.11	365.88	0.35
E117-00-00_0001	8658	10PCT_10yr	3170.00	61.80	74.40		75.04	0.003012	6.42	493.59	83.54	0.47
E117-00-00_0001	8658	2PCT_50yr	4490.00	61.80	76.69		77.31	0.002600	6.29	713.80	112.76	0.44
E117-00-00_0001	8658	1PCT_100yr	5120.00	61.80	77.64		78.23	0.002399	6.17	858.44	307.42	0.43
E117-00-00_0001	8307	10PCT_10yr	3220.00	59.19	73.90	68.68	74.28	0.001338	4.97	647.35	86.52	0.32
E117-00-00_0001	8307	2PCT_50yr	4570.00	59.19	76.21	70.01	76.65	0.001229	5.32	859.64	97.37	0.32
E117-00-00_0001	8307	1PCT_100yr	5210.00	59.19	77.16	70.59	77.62	0.001185	5.46	955.55	267.07	0.31
E117-00-00_0001	7608	10PCT_10yr	3320.00	57.72	73.04	67.58	73.39	0.001196	4.81	690.64	88.54	0.30
E117-00-00_0001	7608	2PCT_50yr	4720.00	57.72	75.43	69.02	75.84	0.001070	5.15	930.79	169.13	0.30
E117-00-00_0001	7608	1PCT_100yr	5390.00	57.72	76.43	69.51	76.85	0.001002	5.25	1076.40	271.68	0.29
E117-00-00_0001	6350	10PCT_10yr	3380.00	56.46	72.55	61.88	72.68	0.000288	2.91	1160.20	105.65	0.15
E117-00-00_0001	6350	2PCT_50yr	4810.00	56.46	74.91	63.21	75.09	0.000322	3.39	1442.42	445.46	0.17
E117-00-00_0001	6350	1PCT_100yr	5500.00	56.46	75.98	63.80	76.15	0.000302	3.41	2216.19	985.53	0.16
E117-00-00_0001	5648	10PCT_10yr	3520.00	55.83	72.10	63.96	72.36	0.000687	4.15	847.21	87.18	0.23
E117-00-00_0001	5648	2PCT_50yr	5030.00	55.83	74.38	65.47	74.73	0.000766	4.75	1058.21	205.87	0.26
E117-00-00_0001	5648	1PCT_100yr	5760.00	55.83	75.48	66.14	75.82	0.000713	4.72	1535.78	668.91	0.27
E117-00-00_0001	4948	10PCT_10yr	3520.00	56.53	71.53	64.66	71.80	0.000966	4.17	843.27	116.41	0.27
E117-00-00_0001	4948	2PCT_50yr	5030.00	56.53	73.85	66.34	74.14	0.000883	4.36	1301.50	442.41	0.27
E117-00-00_0001	4948	1PCT_100yr	5760.00	56.53	75.12	67.05	75.33	0.000590	3.90	2572.72	1418.74	0.22
E117-00-00_0001	4548	10PCT_10yr	3520.00	56.93	70.91	65.47	71.31	0.001348	5.03	699.82	95.59	0.32
E117-00-00_0001	4548	2PCT_50yr	5030.00	56.93	73.22	66.95	73.68	0.001138	5.50	915.25	115.91	0.31
E117-00-00_0001	4548	1PCT_100yr	5760.00	56.93	74.54	67.56	74.96	0.001007	5.29	1383.18	903.13	0.29

E117-00-00 Revised Existing
HEC-RAS Output

HEC-RAS Plan: Ext 2 River: E117-00-00 Reach: E117-00-00_0001 (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
E117-00-00_0001	4493		Bridge									
E117-00-00_0001	4435	10PCT_10yr	3520.00	56.60	70.40	65.14	70.81	0.001452	5.16	682.36	93.92	0.33
E117-00-00_0001	4435	2PCT_50yr	5030.00	56.60	72.71	66.62	73.19	0.001210	5.60	898.44	114.33	0.32
E117-00-00_0001	4435	1PCT_100yr	5760.00	56.60	73.71	67.23	74.19	0.001374	5.52	1064.19	258.75	0.33
E117-00-00_0001	4329	10PCT_10yr	3520.00	56.42	70.25	64.60	70.66	0.001422	5.13	686.56	92.94	0.33
E117-00-00_0001	4329	2PCT_50yr	5030.00	56.42	72.59	66.11	73.04	0.001397	5.41	930.54	115.53	0.34
E117-00-00_0001	4329	1PCT_100yr	5760.00	56.42	73.58	66.74	74.03	0.001292	5.44	1200.14	509.29	0.33
E117-00-00_0001	3917	10PCT_10yr	3610.00	55.71	69.66	64.01	70.09	0.001340	5.21	692.65	86.98	0.33
E117-00-00_0001	3917	2PCT_50yr	5170.00	55.71	71.97	65.54	72.48	0.001328	5.70	907.09	98.78	0.33
E117-00-00_0001	3917	1PCT_100yr	5930.00	55.71	72.96	66.18	73.49	0.001294	5.89	1020.56	164.18	0.33
E117-00-00_0001	3579	10PCT_10yr	3610.00	55.87	68.84	63.87	69.49	0.002164	6.50	555.05	69.33	0.41
E117-00-00_0001	3579	2PCT_50yr	5170.00	55.87	71.07	65.56	71.86	0.002331	7.16	722.44	111.11	0.43
E117-00-00_0001	3579	1PCT_100yr	5930.00	55.87	72.03	66.31	72.86	0.002626	7.32	810.08	221.28	0.45
E117-00-00_0001	3373	10PCT_10yr	3610.00	55.96	68.60	63.29	69.04	0.001329	5.30	680.79	82.69	0.33
E117-00-00_0001	3373	2PCT_50yr	5170.00	55.96	70.84	64.63	71.38	0.001355	5.91	874.66	98.82	0.34
E117-00-00_0001	3373	1PCT_100yr	5930.00	55.96	71.77	65.24	72.36	0.001373	6.17	960.92	153.75	0.34
E117-00-00_0001	3353.5		Bridge									
E117-00-00_0001	3333	10PCT_10yr	3610.00	55.58	68.03	62.91	68.49	0.001419	5.43	665.21	81.99	0.34
E117-00-00_0001	3333	2PCT_50yr	5170.00	55.58	70.62	64.25	71.15	0.001291	5.81	889.86	91.61	0.33
E117-00-00_0001	3333	1PCT_100yr	5930.00	55.58	71.54	64.86	72.11	0.001317	6.08	975.55	144.57	0.33
E117-00-00_0001	3233	10PCT_10yr	3610.00	54.69	67.58		68.25	0.002217	6.56	549.93	68.97	0.41
E117-00-00_0001	3233	2PCT_50yr	5170.00	54.69	70.17		70.91	0.002306	6.92	747.04	90.24	0.42
E117-00-00_0001	3233	1PCT_100yr	5930.00	54.69	71.10		71.88	0.002438	7.08	837.50	102.74	0.44
E117-00-00_0001	2832	10PCT_10yr	3720.00	51.10	67.29		67.63	0.000876	4.63	803.92	85.11	0.27
E117-00-00_0001	2832	2PCT_50yr	5330.00	51.10	69.85		70.26	0.000922	5.14	1037.97	97.95	0.28
E117-00-00_0001	2832	1PCT_100yr	6120.00	51.10	70.74		71.20	0.000975	5.43	1128.70	130.58	0.29
E117-00-00_0001	2658	10PCT_10yr	3720.00	50.61	67.09	60.44	67.45	0.001053	4.81	773.41	90.73	0.29
E117-00-00_0001	2658	2PCT_50yr	5330.00	50.61	69.67	62.06	70.10	0.000966	5.23	1019.50	129.29	0.29
E117-00-00_0001	2658	1PCT_100yr	6120.00	50.61	70.58	62.74	71.02	0.001003	5.38	1319.43	483.71	0.29
E117-00-00_0001	2631		Bridge									
E117-00-00_0001	2604	10PCT_10yr	3720.00	50.54	66.89	60.38	67.26	0.001097	4.88	761.67	90.05	0.30
E117-00-00_0001	2604	2PCT_50yr	5330.00	50.54	69.23	61.97	69.69	0.001077	5.42	982.74	102.42	0.30
E117-00-00_0001	2604	1PCT_100yr	6120.00	50.54	70.15	62.64	70.64	0.001136	5.63	1163.76	388.41	0.31
E117-00-00_0001	2502	10PCT_10yr	3720.00	50.52	66.80		67.15	0.000918	4.73	786.64	82.63	0.27
E117-00-00_0001	2502	2PCT_50yr	5330.00	50.52	69.13		69.58	0.001011	5.36	997.96	105.47	0.29
E117-00-00_0001	2502	1PCT_100yr	6120.00	50.52	70.04		70.53	0.001030	5.65	1115.02	163.58	0.30
E117-00-00_0001	1628	10PCT_10yr	3780.00	50.33	65.81	58.42	66.23	0.001177	5.24	722.04	78.26	0.30
E117-00-00_0001	1628	2PCT_50yr	5430.00	50.33	67.98	60.29	68.54	0.001372	6.00	904.79	90.07	0.33
E117-00-00_0001	1628	1PCT_100yr	6240.00	50.33	68.87	61.09	69.47	0.001392	6.28	1071.62	373.59	0.34
E117-00-00_0001	922	10PCT_10yr	3870.00	51.40	64.27	60.24	65.00	0.002673	6.87	563.69	77.35	0.45
E117-00-00_0001	922	2PCT_50yr	5562.00	51.40	66.25	61.91	67.16	0.002783	7.65	726.91	87.40	0.47
E117-00-00_0001	922	1PCT_100yr	6397.00	51.40	67.08	62.62	68.07	0.002834	7.98	801.23	118.65	0.48
E117-00-00_0001	243	10PCT_10yr	3870.00	50.17	60.75		62.20	0.006709	9.68	399.79	65.27	0.69
E117-00-00_0001	243	2PCT_50yr	5562.00	50.17	62.09		64.07	0.007934	11.29	492.80	72.55	0.76
E117-00-00_0001	243	1PCT_100yr	6397.00	50.17	62.82		64.95	0.007917	11.69	547.06	76.25	0.77
E117-00-00_0001	133	10PCT_10yr	3870.00	49.97	60.37	58.33	61.17	0.004173	7.19	538.32	99.58	0.54
E117-00-00_0001	133	2PCT_50yr	5562.00	49.97	61.74	59.45	62.78	0.004320	8.18	680.19	106.19	0.57
E117-00-00_0001	133	1PCT_100yr	6397.00	49.97	62.53	59.95	63.61	0.004058	8.37	764.67	109.94	0.56
E117-00-00_0001	122.5		Inl Struct									
E117-00-00_0001	111	10PCT_10yr	3870.00	45.16	54.75	53.29	56.38	0.001201	10.26	377.07	68.50	0.77
E117-00-00_0001	111	2PCT_50yr	5562.00	45.16	56.30	55.18	58.30	0.001202	11.37	489.28	76.24	0.79
E117-00-00_0001	111	1PCT_100yr	6397.00	45.16	56.97	55.79	59.13	0.001202	11.81	541.51	79.59	0.80

E127-00-00 Mitigated
HEC-RAS Output

HEC-RAS Plan: 290 Mit River: E127-00-00 Reach: E127-00-00_0007

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
E127-00-00_0007	8562	10PCT_10yr	440.00	101.91	109.90	106.17	109.92	0.000958	1.25	530.96	440.49	0.12
E127-00-00_0007	8562	2PCT_50yr	660.00	101.91	110.69	106.83	110.71	0.000707	1.24	879.77	1004.64	0.11
E127-00-00_0007	8562	1PCT_100yr	750.00	101.91	110.99	107.03	111.01	0.000635	1.23	1020.88	1145.00	0.10
E127-00-00_0007	7786.0	10PCT_10yr	520.00	100.42	108.30	105.32	108.43	0.004576	2.97	185.03	245.73	0.26
E127-00-00_0007	7786.0	2PCT_50yr	790.00	100.42	109.38	106.08	109.53	0.004265	3.24	273.53	547.12	0.26
E127-00-00_0007	7786.0	1PCT_100yr	910.00	100.42	109.76	106.38	109.92	0.004108	3.34	312.59	1068.00	0.26
E127-00-00_0007	7348	10PCT_10yr	520.00	99.12	106.42	104.01	106.66	0.003562	3.90	133.34	37.33	0.36
E127-00-00_0007	7348	2PCT_50yr	790.00	99.12	107.70	104.92	107.97	0.002994	4.21	201.54	356.12	0.35
E127-00-00_0007	7348	1PCT_100yr	910.00	99.12	108.26	105.25	108.52	0.002556	4.18	253.42	701.18	0.33
E127-00-00_0007	7253.3	10PCT_10yr	530.00	98.84	105.88	103.72	106.22	0.005108	4.69	112.97	38.19	0.43
E127-00-00_0007	7253.3	2PCT_50yr	800.00	98.84	107.20	104.67	107.59	0.004372	5.05	163.38	56.32	0.41
E127-00-00_0007	7253.3	1PCT_100yr	920.00	98.84	107.81	105.03	108.19	0.003831	5.05	189.23	355.67	0.39
E127-00-00_0007	7235.0		Bridge									
E127-00-00_0007	7216.8	10PCT_10yr	530.00	98.81	104.77	103.69	105.41	0.011814	6.43	82.45	25.94	0.64
E127-00-00_0007	7216.8	2PCT_50yr	800.00	98.81	106.14	104.64	106.81	0.009450	6.56	121.96	43.14	0.59
E127-00-00_0007	7216.8	1PCT_100yr	920.00	98.81	106.80	105.00	107.42	0.007630	6.38	147.40	54.76	0.54
E127-00-00_0007	7185.0	10PCT_10yr	540.00	97.82	105.04	100.39	105.08	0.000286	1.69	318.66	69.38	0.14
E127-00-00_0007	7185.0	2PCT_50yr	820.00	97.82	106.41	101.11	106.47	0.000307	1.95	419.63	77.52	0.15
E127-00-00_0007	7185.0	1PCT_100yr	960.00	97.82	107.05	101.44	107.11	0.000307	2.04	470.08	81.29	0.15
E127-00-00_0007	7032.0		Bridge									
E127-00-00_0007	6863.3	10PCT_10yr	540.00	97.82	104.96	100.39	105.01	0.000301	1.72	313.16	68.91	0.14
E127-00-00_0007	6863.3	2PCT_50yr	820.00	97.82	106.33	101.12	106.39	0.000320	1.98	413.16	77.03	0.15
E127-00-00_0007	6863.3	1PCT_100yr	960.00	97.82	106.96	101.44	107.03	0.000320	2.07	463.13	80.78	0.15
E127-00-00_0007	6832.0	10PCT_10yr	560.00	98.14	104.81		104.96	0.001248	3.12	179.21	45.95	0.28
E127-00-00_0007	6832.0	2PCT_50yr	850.00	98.14	106.15		106.34	0.001247	3.44	247.51	57.37	0.29
E127-00-00_0007	6832.0	1PCT_100yr	1010.00	98.14	106.78		106.97	0.001184	3.56	287.65	71.40	0.28
E127-00-00_0007	6325.0	10PCT_10yr	600.00	97.20	104.28	100.92	104.43	0.000889	3.07	203.79	53.75	0.24
E127-00-00_0007	6325.0	2PCT_50yr	890.00	97.20	105.68	101.69	105.84	0.000772	3.38	287.10	90.09	0.24
E127-00-00_0007	6325.0	1PCT_100yr	1100.00	97.20	106.28	102.17	106.48	0.000822	3.71	326.37	160.67	0.25
E127-00-00_0007	5487.0	10PCT_10yr	620.00	95.63	103.69	99.67	103.79	0.000633	2.53	245.38	79.43	0.21
E127-00-00_0007	5487.0	2PCT_50yr	920.00	95.63	105.13	100.42	105.25	0.000626	2.81	338.01	1250.46	0.21
E127-00-00_0007	5487.0	1PCT_100yr	1170.00	95.63	105.68	100.94	105.83	0.000701	3.17	411.25	1848.36	0.23
E127-00-00_0007	5053	10PCT_10yr	620.00	95.73	103.51	98.57	103.57	0.000397	2.01	336.68	148.79	0.16
E127-00-00_0007	5053	2PCT_50yr	920.00	95.73	105.01	99.25	105.06	0.000269	1.90	637.43	708.21	0.14
E127-00-00_0007	5053	1PCT_100yr	1170.00	95.73	105.56	99.77	105.62	0.000287	2.09	782.53	1491.72	0.15
E127-00-00_0007	4956.5	10PCT_10yr	630.00	95.75	103.46	98.17	103.52	0.000319	1.99	321.23	83.96	0.15
E127-00-00_0007	4956.5	2PCT_50yr	940.00	95.75	104.96	98.84	105.03	0.000314	2.20	496.67	636.95	0.15
E127-00-00_0007	4956.5	1PCT_100yr	1200.00	95.75	105.49	99.36	105.58	0.000374	2.52	586.72	1494.58	0.17
E127-00-00_0007	4934.0		Culvert									
E127-00-00_0007	4911.5	10PCT_10yr	630.00	95.25	102.55	97.67	102.62	0.000390	2.15	292.38	54.02	0.16
E127-00-00_0007	4911.5	2PCT_50yr	940.00	95.25	103.94	98.36	104.03	0.000439	2.51	393.21	254.42	0.18
E127-00-00_0007	4911.5	1PCT_100yr	1200.00	95.25	104.59	98.86	104.71	0.000511	2.84	472.92	474.40	0.19
E127-00-00_0007	4854.0	10PCT_10yr	630.00	95.45	102.48	99.11	102.58	0.000694	2.44	258.69	64.11	0.21
E127-00-00_0007	4854.0	2PCT_50yr	940.00	95.45	103.89	99.74	104.00	0.000631	2.63	371.51	124.79	0.21
E127-00-00_0007	4854.0	1PCT_100yr	1200.00	95.45	104.55	100.20	104.68	0.000655	2.87	462.11	248.90	0.22
E127-00-00_0007	4776	10PCT_10yr	630.00	95.73	102.40	99.36	102.51	0.000894	2.71	232.84	58.97	0.24
E127-00-00_0007	4776	2PCT_50yr	940.00	95.73	103.81	100.03	103.94	0.000789	2.92	330.58	96.05	0.23
E127-00-00_0007	4776	1PCT_100yr	1200.00	95.73	104.45	100.48	104.61	0.000889	3.23	404.52	245.14	0.25
E127-00-00_0007	4702.0	10PCT_10yr	660.00	95.99	102.27	99.65	102.42	0.001303	3.17	208.36	54.22	0.28
E127-00-00_0007	4702.0	2PCT_50yr	980.00	95.99	103.69	100.37	103.87	0.001171	3.36	291.98	64.34	0.28
E127-00-00_0007	4702.0	1PCT_100yr	1230.00	95.99	104.31	100.80	104.52	0.001291	3.69	333.59	284.06	0.30
E127-00-00_0007	4676.0		Bridge									
E127-00-00_0007	4650.1	10PCT_10yr	660.00	96.10	102.06	99.76	102.25	0.001669	3.44	191.70	53.17	0.32
E127-00-00_0007	4650.1	2PCT_50yr	980.00	96.10	103.31	100.48	103.53	0.001553	3.75	261.47	60.25	0.32
E127-00-00_0007	4650.1	1PCT_100yr	1230.00	96.10	103.98	100.90	104.23	0.001669	4.05	303.55	65.81	0.33
E127-00-00_0007	4634.0	10PCT_10yr	660.00	96.06	102.03	99.78	102.22	0.001700	3.43	192.70	56.11	0.33
E127-00-00_0007	4634.0	2PCT_50yr	980.00	96.06	103.30	100.44	103.50	0.001495	3.64	269.11	287.12	0.31
E127-00-00_0007	4634.0	1PCT_100yr	1230.00	96.06	103.97	100.87	104.21	0.001544	3.92	314.16	435.05	0.32

E127-00-00 Mitigated
HEC-RAS Output

HEC-RAS Plan: 290 Mit River: E127-00-00 Reach: E127-00-00_0007 (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
E127-00-00_0007	4095.0	10PCT_10yr	710.00	94.73	101.28	98.58	101.43	0.001251	3.17	223.71	57.79	0.28
E127-00-00_0007	4095.0	2PCT_50yr	1060.00	94.73	102.62	99.25	102.80	0.001147	3.47	305.53	115.34	0.28
E127-00-00_0007	4095.0	1PCT_100yr	1310.00	94.73	103.25	99.67	103.47	0.001221	3.77	347.25	179.06	0.29
E127-00-00_0007	2854.0	10PCT_10yr	750.00	93.29	100.25	96.46	100.35	0.000640	2.54	295.23	64.19	0.21
E127-00-00_0007	2854.0	2PCT_50yr	1130.00	93.29	101.60	97.17	101.73	0.000671	2.92	391.88	89.03	0.22
E127-00-00_0007	2854.0	1PCT_100yr	1360.00	93.29	102.18	97.53	102.33	0.000703	3.14	451.13	123.51	0.23
E127-00-00_0007	1977.0	10PCT_10yr	800.00	91.09	99.71	95.63	99.80	0.000606	2.48	322.28	68.72	0.20
E127-00-00_0007	1977.0	2PCT_50yr	1190.00	91.09	101.05	96.34	101.17	0.000618	2.81	444.52	190.81	0.21
E127-00-00_0007	1977.0	1PCT_100yr	1420.00	91.09	101.63	96.74	101.76	0.000602	2.97	534.16	271.27	0.21
E127-00-00_0007	1212	10PCT_10yr	800.00	91.29	98.75	95.61	99.03	0.001890	4.25	188.18	39.07	0.34
E127-00-00_0007	1212	2PCT_50yr	1190.00	91.29	99.93	96.50	100.32	0.002305	5.00	238.02	45.22	0.38
E127-00-00_0007	1212	1PCT_100yr	1420.00	91.29	100.43	96.98	100.89	0.002577	5.43	261.42	47.77	0.41
E127-00-00_0007	1116.0	10PCT_10yr	860.00	91.31	98.43	95.64	98.80	0.002405	4.86	176.85	34.99	0.38
E127-00-00_0007	1116.0	2PCT_50yr	1283.00	91.31	99.45	96.60	100.00	0.003299	5.97	214.73	39.79	0.45
E127-00-00_0007	1116.0	1PCT_100yr	1497.00	91.31	99.90	97.05	100.54	0.003651	6.42	233.31	42.04	0.48
E127-00-00_0007	1082.0		Bridge									
E127-00-00_0007	1048.0	10PCT_10yr	860.00	91.14	98.34	95.47	98.70	0.002299	4.79	179.68	35.17	0.37
E127-00-00_0007	1048.0	2PCT_50yr	1283.00	91.14	99.31	96.43	99.86	0.003251	5.94	216.02	39.95	0.45
E127-00-00_0007	1048.0	1PCT_100yr	1497.00	91.14	99.74	96.88	100.38	0.003632	6.40	233.80	42.10	0.48
E127-00-00_0007	1024.0	10PCT_10yr	860.00	90.82	96.90	96.90	98.27	0.018523	9.39	91.56	33.20	1.00
E127-00-00_0007	1024.0	2PCT_50yr	1283.00	90.82	98.24	97.84	99.51	0.013060	9.01	142.33	42.58	0.87
E127-00-00_0007	1024.0	1PCT_100yr	1497.00	90.82	98.89	98.27	100.07	0.010988	8.75	171.12	47.19	0.81
E127-00-00_0007	731.0	10PCT_10yr	860.00	86.96	96.55	93.00	96.75	0.001400	3.60	239.16	53.30	0.30
E127-00-00_0007	731.0	2PCT_50yr	1283.00	86.96	98.02	93.98	98.27	0.001401	3.95	324.87	63.24	0.31
E127-00-00_0007	731.0	1PCT_100yr	1497.00	86.96	98.64	94.41	98.90	0.001402	4.10	365.24	67.42	0.31

E127-00-00 Revised Existing
HEC-RAS Output

HEC-RAS Plan: FEMAeff0607 River: E127-00-00 Reach: E127-00-00_0007

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
E127-00-00_0007	8562	10PCT_10yr	440.00	101.91	109.90	106.17	109.92	0.000958	1.25	530.97	440.49	0.12
E127-00-00_0007	8562	2PCT_50yr	660.00	101.91	110.69	106.83	110.71	0.000707	1.24	879.77	1004.64	0.11
E127-00-00_0007	8562	1PCT_100yr	750.00	101.91	110.99	107.03	111.01	0.000635	1.23	1020.88	1144.99	0.10
E127-00-00_0007	8562	0.2PCT_500yr	1110.00	101.91	111.19	107.94	111.22	0.001097	1.67	1118.61	1308.58	0.14
E127-00-00_0007	7786.0	10PCT_10yr	520.00	100.42	108.30	105.32	108.43	0.004576	2.97	185.03	245.73	0.26
E127-00-00_0007	7786.0	2PCT_50yr	790.00	100.42	109.38	106.08	109.53	0.004265	3.24	273.53	547.12	0.26
E127-00-00_0007	7786.0	1PCT_100yr	910.00	100.42	109.76	106.38	109.92	0.004108	3.34	312.59	1067.96	0.26
E127-00-00_0007	7786.0	0.2PCT_500yr	1370.00	100.42	110.57	107.33	110.59	0.000732	1.56	1442.62	1891.52	0.11
E127-00-00_0007	7348	10PCT_10yr	520.00	99.12	106.42	104.01	106.66	0.003561	3.90	133.35	37.34	0.36
E127-00-00_0007	7348	2PCT_50yr	790.00	99.12	107.70	104.92	107.97	0.002994	4.21	201.55	356.16	0.35
E127-00-00_0007	7348	1PCT_100yr	910.00	99.12	108.26	105.25	108.52	0.002556	4.18	253.40	701.07	0.33
E127-00-00_0007	7348	0.2PCT_500yr	1370.00	99.12	110.10	106.27	110.21	0.001004	3.22	825.27	2066.79	0.21
E127-00-00_0007	7253.3	10PCT_10yr	530.00	98.84	105.88	103.72	106.22	0.005106	4.69	112.99	38.19	0.43
E127-00-00_0007	7253.3	2PCT_50yr	800.00	98.84	107.20	104.67	107.59	0.004371	5.05	163.38	56.32	0.41
E127-00-00_0007	7253.3	1PCT_100yr	920.00	98.84	107.81	105.03	108.19	0.003832	5.05	189.22	355.54	0.39
E127-00-00_0007	7253.3	0.2PCT_500yr	1400.00	98.84	109.98	106.26	110.09	0.001254	3.31	996.41	2278.46	0.23
E127-00-00_0007	7235.0		Bridge									
E127-00-00_0007	7216.8	10PCT_10yr	530.00	98.81	104.77	103.69	105.41	0.011794	6.42	82.50	25.95	0.64
E127-00-00_0007	7216.8	2PCT_50yr	800.00	98.81	106.14	104.64	106.81	0.009449	6.56	121.96	43.15	0.59
E127-00-00_0007	7216.8	1PCT_100yr	920.00	98.81	106.80	105.00	107.42	0.007633	6.38	147.39	54.76	0.54
E127-00-00_0007	7216.8	0.2PCT_500yr	1400.00	98.81	107.46	106.23	108.50	0.010940	8.26	175.61	157.42	0.66
E127-00-00_0007	7185.0	10PCT_10yr	540.00	97.82	105.04	100.39	105.09	0.000286	1.69	318.78	69.39	0.14
E127-00-00_0007	7185.0	2PCT_50yr	820.00	97.82	106.41	101.11	106.47	0.000307	1.95	419.63	77.52	0.15
E127-00-00_0007	7185.0	1PCT_100yr	960.00	97.82	107.05	101.44	107.11	0.000307	2.04	470.05	81.29	0.15
E127-00-00_0007	7185.0	0.2PCT_500yr	1430.00	97.82	107.88	102.27	107.99	0.000465	2.65	539.83	86.22	0.19
E127-00-00_0007	7032.0		Bridge									
E127-00-00_0007	6863.3	10PCT_10yr	540.00	97.82	104.96	100.39	105.01	0.000300	1.72	313.28	68.92	0.14
E127-00-00_0007	6863.3	2PCT_50yr	820.00	97.82	106.33	101.12	106.39	0.000320	1.98	413.17	77.03	0.15
E127-00-00_0007	6863.3	1PCT_100yr	960.00	97.82	106.96	101.44	107.03	0.000320	2.07	463.10	80.78	0.15
E127-00-00_0007	6863.3	0.2PCT_500yr	1430.00	97.82	107.75	102.26	107.87	0.000493	2.70	528.67	85.45	0.19
E127-00-00_0007	6832.0	10PCT_10yr	560.00	98.14	104.81		104.96	0.001246	3.12	179.30	45.96	0.28
E127-00-00_0007	6832.0	2PCT_50yr	850.00	98.14	106.15		106.34	0.001247	3.44	247.51	57.37	0.29
E127-00-00_0007	6832.0	1PCT_100yr	1010.00	98.14	106.78		106.97	0.001184	3.56	287.62	71.39	0.28
E127-00-00_0007	6832.0	0.2PCT_500yr	1470.00	98.14	107.48		107.78	0.001615	4.47	345.20	110.61	0.34
E127-00-00_0007	6325.0	10PCT_10yr	600.00	97.20	104.29	100.92	104.43	0.000887	3.07	203.94	53.78	0.24
E127-00-00_0007	6325.0	2PCT_50yr	890.00	97.20	105.68	101.69	105.84	0.000772	3.38	287.11	90.11	0.24
E127-00-00_0007	6325.0	1PCT_100yr	1100.00	97.20	106.28	102.17	106.48	0.000823	3.71	326.33	160.63	0.25
E127-00-00_0007	6325.0	0.2PCT_500yr	1530.00	97.20	106.75	103.02	107.07	0.001226	4.73	357.58	195.77	0.31
E127-00-00_0007	5487.0	10PCT_10yr	620.00	95.63	103.70	99.67	103.80	0.000631	2.52	245.61	79.65	0.21
E127-00-00_0007	5487.0	2PCT_50yr	920.00	95.63	105.13	100.42	105.25	0.000626	2.81	338.03	1250.63	0.21
E127-00-00_0007	5487.0	1PCT_100yr	1170.00	95.63	105.68	100.94	105.83	0.000702	3.17	411.12	1846.60	0.23
E127-00-00_0007	5487.0	0.2PCT_500yr	1580.00	95.63	106.24	101.69	106.34	0.000561	3.00	950.74	2081.30	0.20
E127-00-00_0007	5053	10PCT_10yr	620.00	95.73	103.51	98.57	103.57	0.000396	2.01	337.40	149.55	0.16
E127-00-00_0007	5053	2PCT_50yr	920.00	95.73	105.01	99.25	105.06	0.000268	1.90	637.48	708.31	0.14
E127-00-00_0007	5053	1PCT_100yr	1170.00	95.73	105.56	99.77	105.62	0.000287	2.09	782.23	1482.00	0.15
E127-00-00_0007	5053	0.2PCT_500yr	1580.00	95.73	106.07	100.49	106.14	0.000355	2.44	941.90	2085.56	0.16
E127-00-00_0007	4956.5	10PCT_10yr	630.00	95.75	103.47	98.17	103.53	0.000318	1.99	321.65	84.21	0.15
E127-00-00_0007	4956.5	2PCT_50yr	940.00	95.75	104.96	98.84	105.03	0.000314	2.20	496.71	637.04	0.15
E127-00-00_0007	4956.5	1PCT_100yr	1200.00	95.75	105.48	99.36	105.58	0.000374	2.52	586.51	1492.97	0.17
E127-00-00_0007	4956.5	0.2PCT_500yr	1600.00	95.75	105.96	100.05	106.08	0.000493	3.02	685.22	2221.67	0.19
E127-00-00_0007	4934.0		Culvert									
E127-00-00_0007	4911.5	10PCT_10yr	630.00	95.25	102.55	97.67	102.63	0.000389	2.15	292.68	54.04	0.16
E127-00-00_0007	4911.5	2PCT_50yr	940.00	95.25	103.94	98.36	104.03	0.000438	2.51	393.24	254.53	0.18
E127-00-00_0007	4911.5	1PCT_100yr	1200.00	95.25	104.59	98.86	104.71	0.000511	2.84	472.98	474.54	0.19
E127-00-00_0007	4911.5	0.2PCT_500yr	1600.00	95.25	105.19	99.54	105.35	0.000654	3.36	558.98	1028.66	0.22
E127-00-00_0007	4854.0	10PCT_10yr	630.00	95.45	102.49	99.11	102.58	0.000691	2.43	259.07	64.15	0.21
E127-00-00_0007	4854.0	2PCT_50yr	940.00	95.45	103.89	99.74	104.00	0.000631	2.63	371.55	124.82	0.21
E127-00-00_0007	4854.0	1PCT_100yr	1200.00	95.45	104.55	100.20	104.68	0.000655	2.87	462.17	249.09	0.22
E127-00-00_0007	4854.0	0.2PCT_500yr	1600.00	95.45	105.15	100.85	105.31	0.000782	3.33	555.51	1020.03	0.24
E127-00-00_0007	4776	10PCT_10yr	630.00	95.73	102.41	99.36	102.52	0.000890	2.70	233.22	59.01	0.24
E127-00-00_0007	4776	2PCT_50yr	940.00	95.73	103.81	100.03	103.94	0.000789	2.92	330.61	96.06	0.23
E127-00-00_0007	4776	1PCT_100yr	1200.00	95.73	104.46	100.48	104.61	0.000889	3.23	404.59	245.42	0.25
E127-00-00_0007	4776	0.2PCT_500yr	1600.00	95.73	105.03	101.13	105.23	0.001031	3.73	578.76	813.77	0.27
E127-00-00_0007	4702.0	10PCT_10yr	660.00	95.99	102.27	99.65	102.43	0.001296	3.16	208.74	54.24	0.28
E127-00-00_0007	4702.0	2PCT_50yr	980.00	95.99	103.69	100.37	103.87	0.001171	3.36	292.00	64.34	0.28
E127-00-00_0007	4702.0	1PCT_100yr	1230.00	95.99	104.31	100.80	104.52	0.001290	3.69	333.63	284.33	0.30
E127-00-00_0007	4702.0	0.2PCT_500yr	1660.00	95.99	104.91	101.42	105.15	0.001325	4.04	680.15	762.47	0.30

E127-00-00 Revised Existing
HEC-RAS Output

HEC-RAS Plan: FEMAeff0607 River: E127-00-00 Reach: E127-00-00_0007 (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
E127-00-00_0007	4676.0		Bridge									
E127-00-00_0007	4650.1	10PCT_10yr	660.00	96.10	102.07	99.76	102.26	0.001657	3.43	192.14	53.20	0.32
E127-00-00_0007	4650.1	2PCT_50yr	980.00	96.10	103.31	100.48	103.53	0.001553	3.75	261.50	60.25	0.32
E127-00-00_0007	4650.1	1PCT_100yr	1230.00	96.10	103.98	100.90	104.24	0.001669	4.05	303.60	67.11	0.33
E127-00-00_0007	4650.1	0.2PCT_500yr	1660.00	96.10	104.86	101.53	105.13	0.001551	4.29	571.90	637.71	0.33
E127-00-00_0007	4634.0	10PCT_10yr	660.00	96.06	102.04	99.78	102.22	0.001687	3.42	193.19	56.16	0.32
E127-00-00_0007	4634.0	2PCT_50yr	980.00	96.06	103.30	100.44	103.51	0.001495	3.64	269.13	287.20	0.31
E127-00-00_0007	4634.0	1PCT_100yr	1230.00	96.06	103.97	100.87	104.21	0.001544	3.91	314.21	435.27	0.32
E127-00-00_0007	4634.0	0.2PCT_500yr	1660.00	96.06	104.93	101.53	105.03	0.000770	3.02	1252.17	1051.66	0.24
E127-00-00_0007	4095.0	10PCT_10yr	710.00	94.73	101.30	98.58	101.45	0.001235	3.16	224.70	57.87	0.28
E127-00-00_0007	4095.0	2PCT_50yr	1060.00	94.73	102.62	99.25	102.81	0.001147	3.47	305.57	115.41	0.28
E127-00-00_0007	4095.0	1PCT_100yr	1310.00	94.73	103.25	99.67	103.47	0.001220	3.77	347.33	179.17	0.29
E127-00-00_0007	4095.0	0.2PCT_500yr	1790.00	94.73	104.36	100.36	104.55	0.001012	3.73	778.80	633.20	0.27
E127-00-00_0007	2854.0	10PCT_10yr	760.00	93.29	100.26	96.48	100.36	0.000653	2.57	295.81	64.24	0.21
E127-00-00_0007	2854.0	2PCT_50yr	1130.00	93.29	101.60	97.17	101.73	0.000671	2.92	391.98	89.07	0.22
E127-00-00_0007	2854.0	1PCT_100yr	1360.00	93.29	102.18	97.53	102.33	0.000702	3.14	451.40	123.84	0.23
E127-00-00_0007	2854.0	0.2PCT_500yr	1880.00	93.29	103.38	98.29	103.55	0.000657	3.37	729.60	363.81	0.23
E127-00-00_0007	1977.0	10PCT_10yr	800.00	91.09	99.71	95.63	99.81	0.000604	2.48	322.68	68.76	0.20
E127-00-00_0007	1977.0	2PCT_50yr	1190.00	91.09	101.05	96.34	101.17	0.000617	2.81	444.76	191.05	0.21
E127-00-00_0007	1977.0	1PCT_100yr	1420.00	91.09	101.63	96.74	101.76	0.000600	2.96	534.72	271.73	0.21
E127-00-00_0007	1977.0	0.2PCT_500yr	1980.00	91.09	102.96	97.54	103.07	0.000441	2.89	1160.38	664.26	0.19
E127-00-00_0007	1212	10PCT_10yr	800.00	91.29	98.76	95.59	99.04	0.001881	4.24	188.56	39.13	0.34
E127-00-00_0007	1212	2PCT_50yr	1190.00	91.29	99.93	96.50	100.32	0.002301	5.00	238.16	45.24	0.38
E127-00-00_0007	1212	1PCT_100yr	1420.00	91.29	100.44	96.98	100.90	0.002569	5.43	261.71	47.89	0.41
E127-00-00_0007	1212	0.2PCT_500yr	1980.00	91.29	101.78	98.03	102.34	0.002726	5.99	330.48	199.81	0.43
E127-00-00_0007	1116.0	10PCT_10yr	862.00	91.31	98.44	95.65	98.81	0.002405	4.87	177.13	35.00	0.38
E127-00-00_0007	1116.0	2PCT_50yr	1284.00	91.31	99.45	96.60	100.00	0.003301	5.98	214.82	39.80	0.45
E127-00-00_0007	1116.0	1PCT_100yr	1499.00	91.31	99.91	97.06	100.55	0.003654	6.42	233.49	42.06	0.48
E127-00-00_0007	1116.0	0.2PCT_500yr	2121.00	91.31	101.05	98.19	101.91	0.004419	7.44	284.99	203.59	0.54
E127-00-00_0007	1082.0		Bridge									
E127-00-00_0007	1048.0	10PCT_10yr	862.00	91.14	98.35	95.48	98.71	0.002301	4.79	179.95	35.20	0.37
E127-00-00_0007	1048.0	2PCT_50yr	1284.00	91.14	99.31	96.43	99.86	0.003253	5.94	216.10	39.96	0.45
E127-00-00_0007	1048.0	1PCT_100yr	1499.00	91.14	99.75	96.89	100.39	0.003635	6.41	233.97	42.12	0.48
E127-00-00_0007	1048.0	0.2PCT_500yr	2121.00	91.14	100.84	98.03	101.71	0.004501	7.50	282.94	196.04	0.54
E127-00-00_0007	1024.0	10PCT_10yr	862.00	90.82	96.90	96.90	98.28	0.018617	9.42	91.55	33.19	1.00
E127-00-00_0007	1024.0	2PCT_50yr	1284.00	90.82	98.25	97.84	99.51	0.013047	9.01	142.47	42.60	0.87
E127-00-00_0007	1024.0	1PCT_100yr	1499.00	90.82	98.89	98.27	100.08	0.010976	8.75	171.40	47.25	0.81
E127-00-00_0007	1024.0	0.2PCT_500yr	2121.00	90.82	100.48	99.30	101.52	0.008016	8.18	259.23	101.58	0.71
E127-00-00_0007	731.0	10PCT_10yr	862.00	86.96	96.56	93.00	96.76	0.001403	3.60	239.43	53.33	0.30
E127-00-00_0007	731.0	2PCT_50yr	1284.00	86.96	98.03	93.98	98.27	0.001401	3.95	325.06	63.26	0.31
E127-00-00_0007	731.0	1PCT_100yr	1499.00	86.96	98.65	94.41	98.91	0.001402	4.10	365.62	67.46	0.31
E127-00-00_0007	731.0	0.2PCT_500yr	2121.00	86.96	100.17	95.45	100.48	0.001402	4.46	475.87	306.12	0.32

E135-00-00 Mitigated
HEC-RAS Output

HEC-RAS Plan: E135 Mit River: E135-00-00 Reach: E135-00-00_0007

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
E135-00-00_0007	10028	10PCT_10yr	580.00	106.20	113.22		113.28	0.000404	1.95	298.38	74.62	0.17
E135-00-00_0007	10028	2PCT_50yr	990.00	106.20	116.11		116.12	0.000072	1.08	2701.03	1790.05	0.07
E135-00-00_0007	10028	1PCT_100yr	1210.00	106.20	117.50		117.50	0.000022	0.68	5179.72	1790.05	0.04
E135-00-00_0007	9808	10PCT_10yr	580.00	106.03	113.13		113.19	0.000400	1.98	292.69	65.29	0.16
E135-00-00_0007	9808	2PCT_50yr	990.00	106.03	116.09		116.10	0.000078	1.12	2710.57	1861.92	0.08
E135-00-00_0007	9808	1PCT_100yr	1210.00	106.03	117.50		117.50	0.000022	0.68	5321.27	1861.92	0.04
E135-00-00_0007	9728	10PCT_10yr	580.00	105.97	112.69	109.14	113.05	0.001311	4.79	121.03	66.60	0.33
E135-00-00_0007	9728	2PCT_50yr	990.00	105.97	115.40	110.50	115.93	0.001239	5.83	169.68	1925.33	0.33
E135-00-00_0007	9728	1PCT_100yr	1210.00	105.97	117.49	111.15	117.50	0.000020	0.66	5557.94	1953.28	0.04
E135-00-00_0007	9488		Culvert									
E135-00-00_0007	9449	10PCT_10yr	580.00	104.33	112.09	107.63	112.37	0.000864	4.22	137.29	53.22	0.27
E135-00-00_0007	9449	2PCT_50yr	990.00	104.33	113.86	109.00	114.39	0.001259	5.86	169.05	270.24	0.34
E135-00-00_0007	9449	1PCT_100yr	1210.00	104.33	114.60	109.64	115.28	0.001460	6.64	182.36	865.23	0.37
E135-00-00_0007	9423	10PCT_10yr	580.00	104.48	112.20	107.08	112.24	0.000211	1.54	376.50	75.60	0.12
E135-00-00_0007	9423	2PCT_50yr	990.00	104.48	114.08	107.89	114.14	0.000237	1.88	526.22	84.32	0.13
E135-00-00_0007	9423	1PCT_100yr	1210.00	104.48	114.89	108.25	114.96	0.000253	2.03	597.30	89.23	0.14
E135-00-00_0007	9415		Bridge									
E135-00-00_0007	9401	10PCT_10yr	580.00	104.59	112.15	107.79	112.21	0.000404	2.00	290.35	64.17	0.17
E135-00-00_0007	9401	2PCT_50yr	990.00	104.59	114.01	108.72	114.09	0.000433	2.34	423.37	77.48	0.18
E135-00-00_0007	9401	1PCT_100yr	1210.00	104.59	114.73	109.13	114.83	0.000474	2.51	481.63	150.72	0.18
E135-00-00_0007	9357	10PCT_10yr	580.00	104.14	112.15	107.62	112.18	0.000188	1.38	419.90	90.91	0.11
E135-00-00_0007	9357	2PCT_50yr	990.00	104.14	114.01	108.25	114.05	0.000180	1.67	592.81	512.29	0.12
E135-00-00_0007	9357	1PCT_100yr	1210.00	104.14	114.74	108.56	114.80	0.000187	1.83	661.46	979.16	0.12
E135-00-00_0007	9330		Bridge									
E135-00-00_0007	9304	10PCT_10yr	580.00	103.79	111.49	106.74	111.52	0.000191	1.43	405.89	85.26	0.12
E135-00-00_0007	9304	2PCT_50yr	990.00	103.79	113.96	107.47	114.00	0.000144	1.57	631.72	102.51	0.11
E135-00-00_0007	9304	1PCT_100yr	1210.00	103.79	114.65	107.80	114.70	0.000155	1.74	696.81	236.50	0.11
E135-00-00_0007	9282	10PCT_10yr	580.00	103.89	111.48	106.66	111.51	0.000169	1.34	431.48	91.14	0.11
E135-00-00_0007	9282	2PCT_50yr	990.00	103.89	113.95	107.35	113.99	0.000130	1.46	676.11	110.81	0.10
E135-00-00_0007	9282	1PCT_100yr	1210.00	103.89	114.64	107.67	114.68	0.000140	1.62	747.38	588.70	0.11
E135-00-00_0007	9202		Bridge									
E135-00-00_0007	9120.7	10PCT_10yr	580.00	103.85	111.03	106.13	111.06	0.000181	1.41	411.90	85.15	0.11
E135-00-00_0007	9120.7	2PCT_50yr	990.00	103.85	113.51	106.85	113.55	0.000152	1.53	645.90	940.82	0.11
E135-00-00_0007	9120.7	1PCT_100yr	1210.00	103.85	114.14	107.20	114.18	0.000166	1.70	710.88	1210.90	0.11
E135-00-00_0007	9110.7	10PCT_10yr	580.00	103.85	111.02	106.22	111.05	0.000199	1.46	397.55	83.81	0.12
E135-00-00_0007	9110.7	2PCT_50yr	990.00	103.85	113.50	106.98	113.53	0.000158	1.58	628.28	125.06	0.11
E135-00-00_0007	9110.7	1PCT_100yr	1210.00	103.85	114.14	107.32	114.18	0.000142	1.53	1206.31	1072.63	0.11
E135-00-00_0007	9076.7		Bridge									
E135-00-00_0007	9042.7	10PCT_10yr	580.00	103.45	110.99	106.25	111.03	0.000208	1.47	393.87	84.57	0.12
E135-00-00_0007	9042.7	2PCT_50yr	990.00	103.45	113.45	107.00	113.49	0.000162	1.59	621.57	102.62	0.11
E135-00-00_0007	9042.7	1PCT_100yr	1210.00	103.45	114.12	107.34	114.16	0.000184	1.72	828.51	853.38	0.12
E135-00-00_0007	8955.1	10PCT_10yr	620.00	103.05	110.94	106.29	111.00	0.000346	1.96	316.37	63.59	0.15
E135-00-00_0007	8955.1	2PCT_50yr	1070.00	103.05	113.38	107.22	113.46	0.000314	2.19	487.91	619.63	0.15
E135-00-00_0007	8955.1	1PCT_100yr	1300.00	103.05	114.04	107.63	114.13	0.000353	2.41	539.25	686.14	0.16
E135-00-00_0007	8219.0	10PCT_10yr	650.00	101.69	110.55	106.14	110.65	0.000622	2.55	254.80	52.36	0.20
E135-00-00_0007	8219.0	2PCT_50yr	1120.00	101.69	113.03	107.31	113.15	0.000549	2.80	400.39	133.30	0.20
E135-00-00_0007	8219.0	1PCT_100yr	1370.00	101.69	113.63	107.83	113.78	0.000635	3.11	451.12	268.28	0.22
E135-00-00_0007	7810.4	10PCT_10yr	650.00	101.63	110.43		110.48	0.000275	1.83	355.49	66.54	0.14
E135-00-00_0007	7810.4	2PCT_50yr	1120.00	101.63	112.92		112.98	0.000273	2.06	554.96	143.96	0.14
E135-00-00_0007	7810.4	1PCT_100yr	1370.00	101.63	113.51		113.59	0.000292	2.24	772.97	508.29	0.15
E135-00-00_0007	7711.8	10PCT_10yr	660.00	101.62	110.40	106.32	110.45	0.000236	1.72	383.42	70.19	0.13
E135-00-00_0007	7711.8	2PCT_50yr	1140.00	101.62	112.90	108.15	112.96	0.000235	1.97	577.65	312.14	0.13
E135-00-00_0007	7711.8	1PCT_100yr	1390.00	101.62	113.48	108.99	113.56	0.000278	2.21	629.18	609.70	0.15
E135-00-00_0007	7691.3		Culvert									
E135-00-00_0007	7670.8	10PCT_10yr	660.00	101.44	108.52	105.50	108.61	0.000592	2.42	272.67	59.71	0.20
E135-00-00_0007	7670.8	2PCT_50yr	1140.00	101.44	110.56	105.61	110.68	0.000600	2.80	407.23	72.28	0.21
E135-00-00_0007	7670.8	1PCT_100yr	1390.00	101.44	111.49	106.03	111.62	0.000584	2.91	476.99	78.06	0.21

E135-00-00 Mitigated
HEC-RAS Output

HEC-RAS Plan: E135 Mit River: E135-00-00 Reach: E135-00-00_0007 (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
E135-00-00_0007	7579.9	10PCT_10yr	700.00	100.95	108.38	105.12	108.52	0.001080	3.06	229.07	55.38	0.26
E135-00-00_0007	7579.9	2PCT_50yr	1210.00	100.95	110.41	106.23	110.59	0.000989	3.41	354.38	67.82	0.26
E135-00-00_0007	7579.9	1PCT_100yr	1480.00	100.95	111.34	106.71	111.53	0.000938	3.52	420.12	73.76	0.26
E135-00-00_0007	7131.5	10PCT_10yr	700.00	100.39	107.97		108.10	0.000801	2.86	245.07	51.48	0.23
E135-00-00_0007	7131.5	2PCT_50yr	1210.00	100.39	110.00		110.18	0.000854	3.38	358.02	61.03	0.25
E135-00-00_0007	7131.5	1PCT_100yr	1480.00	100.39	110.88		111.07	0.001141	3.49	438.88	147.47	0.28
E135-00-00_0007	7000.5	10PCT_10yr	720.00	100.22	107.93	103.58	108.01	0.000431	2.19	328.20	65.26	0.17
E135-00-00_0007	7000.5	2PCT_50yr	1250.00	100.22	109.96	104.52	110.07	0.000459	2.66	470.15	74.97	0.18
E135-00-00_0007	7000.5	1PCT_100yr	1530.00	100.22	110.82	104.95	110.95	0.000453	2.87	532.91	95.69	0.19
E135-00-00_0007	6932.0		Bridge									
E135-00-00_0007	6863.5	10PCT_10yr	720.00	100.22	107.86	103.58	107.94	0.000450	2.23	323.24	64.90	0.18
E135-00-00_0007	6863.5	2PCT_50yr	1250.00	100.22	109.88	104.52	110.00	0.000479	2.69	464.29	74.59	0.19
E135-00-00_0007	6863.5	1PCT_100yr	1530.00	100.22	110.72	104.95	110.85	0.000475	2.91	525.43	79.32	0.19
E135-00-00_0007	6690.1	10PCT_10yr	780.00	99.21	107.67	104.19	107.81	0.000958	2.95	264.71	60.74	0.25
E135-00-00_0007	6690.1	2PCT_50yr	1360.00	99.21	109.68	105.28	109.86	0.000946	3.41	399.11	73.04	0.26
E135-00-00_0007	6690.1	1PCT_100yr	1660.00	99.21	110.52	105.77	110.72	0.000945	3.59	462.20	127.46	0.26
E135-00-00_0007	5858.9	10PCT_10yr	799.00	98.38	106.90	103.23	107.03	0.000911	2.95	271.01	60.20	0.24
E135-00-00_0007	5858.9	2PCT_50yr	1400.00	98.38	108.89	104.40	109.08	0.000950	3.47	403.19	76.18	0.26
E135-00-00_0007	5858.9	1PCT_100yr	1711.00	98.38	109.72	104.91	109.93	0.000952	3.66	478.81	207.27	0.26
E135-00-00_0007	5657.4	10PCT_10yr	799.00	98.28	106.72	103.01	106.85	0.000886	2.88	276.95	61.98	0.24
E135-00-00_0007	5657.4	2PCT_50yr	1400.00	98.28	108.71	104.19	108.89	0.000911	3.39	412.67	73.93	0.25
E135-00-00_0007	5657.4	1PCT_100yr	1711.00	98.28	109.54	104.69	109.74	0.000895	3.59	487.17	120.31	0.25
E135-00-00_0007	5559	10PCT_10yr	842.00	98.23	106.61	103.00	106.75	0.001006	3.03	277.66	62.65	0.25
E135-00-00_0007	5559	2PCT_50yr	1480.00	98.23	108.59	104.21	108.79	0.001013	3.57	414.14	75.63	0.27
E135-00-00_0007	5559	1PCT_100yr	1809.00	98.23	109.42	104.72	109.64	0.000956	3.81	475.39	81.08	0.26
E135-00-00_0007	5503.0		Bridge									
E135-00-00_0007	5447	10PCT_10yr	842.00	98.12	106.28	102.89	106.44	0.001152	3.19	264.26	61.23	0.27
E135-00-00_0007	5447	2PCT_50yr	1480.00	98.12	108.25	104.10	108.46	0.001164	3.73	397.24	74.12	0.28
E135-00-00_0007	5447	1PCT_100yr	1809.00	98.12	109.08	104.61	109.32	0.001079	3.95	458.37	79.57	0.28
E135-00-00_0007	5348.6	10PCT_10yr	842.00	97.91	106.16	102.77	106.32	0.001159	3.22	261.34	60.37	0.27
E135-00-00_0007	5348.6	2PCT_50yr	1480.00	97.91	108.12	104.01	108.34	0.001204	3.77	392.22	73.82	0.29
E135-00-00_0007	5348.6	1PCT_100yr	1809.00	97.91	108.96	104.50	109.20	0.001301	3.94	458.98	86.34	0.30
E135-00-00_0007	4823.1	10PCT_10yr	842.00	96.77	105.47	102.09	105.66	0.001370	3.50	240.78	55.69	0.30
E135-00-00_0007	4823.1	2PCT_50yr	1480.00	96.77	107.38	103.48	107.64	0.001452	4.12	358.81	67.88	0.32
E135-00-00_0007	4823.1	1PCT_100yr	1809.00	96.77	108.17	104.04	108.47	0.001469	4.36	418.04	81.48	0.32
E135-00-00_0007	3974.0	10PCT_10yr	842.00	95.78	104.42	101.13	104.57	0.001176	3.20	263.18	62.28	0.27
E135-00-00_0007	3974.0	2PCT_50yr	1480.00	95.78	106.28	102.31	106.51	0.001217	3.79	390.08	73.37	0.29
E135-00-00_0007	3974.0	1PCT_100yr	1809.00	95.78	107.07	102.81	107.32	0.001227	4.02	453.67	125.57	0.30
E135-00-00_0007	3301.1	10PCT_10yr	842.00	95.67	103.63	100.57	103.79	0.001160	3.17	265.54	62.98	0.27
E135-00-00_0007	3301.1	2PCT_50yr	1480.00	95.67	105.47	101.65	105.69	0.001215	3.79	390.58	73.44	0.29
E135-00-00_0007	3301.1	1PCT_100yr	1809.00	95.67	106.24	102.12	106.49	0.001232	4.03	449.14	77.87	0.30
E135-00-00_0007	2595.9	10PCT_10yr	842.00	94.90	102.51		102.75	0.001903	3.93	214.44	53.97	0.35
E135-00-00_0007	2595.9	2PCT_50yr	1480.00	94.90	104.26		104.59	0.002007	4.65	318.10	64.63	0.37
E135-00-00_0007	2595.9	1PCT_100yr	1809.00	94.90	105.01		105.39	0.002011	4.91	368.62	69.23	0.37
E135-00-00_0007	2496.4	10PCT_10yr	863.00	94.79	102.26	99.78	102.53	0.002239	4.22	204.37	51.98	0.38
E135-00-00_0007	2496.4	2PCT_50yr	1520.00	94.79	103.97	101.05	104.36	0.002408	5.03	302.23	62.50	0.40
E135-00-00_0007	2496.4	1PCT_100yr	1858.00	94.79	104.71	101.59	105.15	0.002409	5.30	350.68	67.10	0.41
E135-00-00_0007	2475.4		Bridge									
E135-00-00_0007	2454.4	10PCT_10yr	863.00	94.72	102.03	99.71	102.33	0.002491	4.39	196.50	51.04	0.39
E135-00-00_0007	2454.4	2PCT_50yr	1520.00	94.72	103.72	100.98	104.15	0.002653	5.21	291.58	61.44	0.42
E135-00-00_0007	2454.4	1PCT_100yr	1858.00	94.72	104.46	101.53	104.93	0.002644	5.48	338.77	66.00	0.43
E135-00-00_0007	2354.5	10PCT_10yr	863.00	94.51	101.74		102.06	0.002915	4.52	190.87	53.91	0.42
E135-00-00_0007	2354.5	2PCT_50yr	1520.00	94.51	103.46		103.87	0.002870	5.11	297.19	69.24	0.44
E135-00-00_0007	2354.5	1PCT_100yr	1858.00	94.51	104.21		104.64	0.002769	5.29	351.30	75.87	0.43
E135-00-00_0007	2146.0	10PCT_10yr	863.00	94.07	100.97		101.36	0.003772	5.03	171.57	49.80	0.48
E135-00-00_0007	2146.0	2PCT_50yr	1520.00	94.07	102.71		103.21	0.003457	5.68	267.75	60.75	0.48
E135-00-00_0007	2146.0	1PCT_100yr	1858.00	94.07	103.46		104.00	0.003312	5.89	315.26	65.48	0.47
E135-00-00_0007	1632.1	10PCT_10yr	863.00	92.83	99.96		100.13	0.001488	3.34	258.57	71.05	0.31
E135-00-00_0007	1632.1	2PCT_50yr	1520.00	92.83	101.88		102.09	0.001296	3.71	409.51	86.39	0.30

E135-00-00 Mitigated
HEC-RAS Output

HEC-RAS Plan: E135 Mit River: E135-00-00 Reach: E135-00-00_0007 (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
E135-00-00_0007	1632.1	1PCT_100yr	1858.00	92.83	102.69		102.92	0.001237	3.85	482.56	93.03	0.30
E135-00-00_0007	1525.9	10PCT_10yr	863.00	92.57	99.80	97.17	99.98	0.001413	3.34	258.10	67.70	0.30
E135-00-00_0007	1525.9	2PCT_50yr	1520.00	92.57	101.73	98.20	101.95	0.001283	3.79	400.80	80.75	0.30
E135-00-00_0007	1525.9	1PCT_100yr	1858.00	92.57	102.54	98.65	102.79	0.001243	3.96	468.81	86.28	0.30
E135-00-00_0007	1498.9		Bridge									
E135-00-00_0007	1471.9	10PCT_10yr	863.00	92.42	99.51	97.03	99.70	0.001569	3.47	248.67	66.74	0.32
E135-00-00_0007	1471.9	2PCT_50yr	1520.00	92.42	101.45	98.05	101.68	0.001382	3.90	390.20	79.86	0.31
E135-00-00_0007	1471.9	1PCT_100yr	1858.00	92.42	102.26	98.50	102.51	0.001331	4.06	457.38	85.38	0.31
E135-00-00_0007	1375	10PCT_10yr	863.00	92.27	99.38		99.56	0.001338	3.36	257.19	64.31	0.30
E135-00-00_0007	1375	2PCT_50yr	1520.00	92.27	101.32		101.55	0.001273	3.85	394.43	76.97	0.30
E135-00-00_0007	1375	1PCT_100yr	1858.00	92.27	102.13		102.39	0.001292	4.05	459.13	84.19	0.31
E135-00-00_0007	1140.4	10PCT_10yr	863.00	91.89	99.13		99.28	0.000958	3.12	276.86	58.93	0.25
E135-00-00_0007	1140.4	2PCT_50yr	1520.00	91.89	101.05		101.28	0.001093	3.79	400.69	70.06	0.28
E135-00-00_0007	1140.4	1PCT_100yr	1858.00	91.89	101.85		102.10	0.001142	4.06	458.13	74.87	0.29
E135-00-00_0007	692.0	10PCT_10yr	863.00	91.92	98.52	95.69	98.73	0.001613	3.68	234.48	58.45	0.32
E135-00-00_0007	692.0	2PCT_50yr	1520.00	91.92	100.40	96.94	100.68	0.001612	4.27	356.18	70.94	0.34
E135-00-00_0007	692.0	1PCT_100yr	1858.00	91.92	101.18	97.46	101.49	0.001611	4.49	413.55	76.18	0.34

E135-00-00 Revised Existing
HEC-RAS Output

HEC-RAS Plan: Rev Ext River: E135-00-00 Reach: E135-00-00_0007

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
E135-00-00_0007	10028	10PCT_10yr	720.00	106.20	114.51		114.56	0.000285	1.81	435.98	240.71	0.14
E135-00-00_0007	10028	2PCT_50yr	1090.00	106.20	114.95		115.03	0.000456	2.39	716.10	1236.74	0.18
E135-00-00_0007	10028	1PCT_100yr	1270.00	106.20	115.26		115.34	0.000413	2.36	1181.35	1784.15	0.17
E135-00-00_0007	9808	10PCT_10yr	720.00	106.03	114.54		114.54	0.000003	0.20	5424.30	952.67	0.02
E135-00-00_0007	9808	2PCT_50yr	1090.00	106.03	115.00		115.00	0.000007	0.30	5936.31	1429.46	0.02
E135-00-00_0007	9808	1PCT_100yr	1270.00	106.03	115.30		115.31	0.000016	0.47	6434.75	1838.18	0.03
E135-00-00_0007	9728	10PCT_10yr	720.00	105.97	114.48		114.53	0.000251	1.75	438.10	221.73	0.13
E135-00-00_0007	9728	2PCT_50yr	1090.00	105.97	114.90		114.99	0.000449	2.39	650.16	1251.00	0.18
E135-00-00_0007	9728	1PCT_100yr	1270.00	105.97	115.21		115.29	0.000441	2.43	1098.48	1718.38	0.18
E135-00-00_0007	9528	10PCT_10yr	720.00	105.90	114.42	110.21	114.47	0.000306	1.94	485.63	383.09	0.15
E135-00-00_0007	9528	2PCT_50yr	1090.00	105.90	114.79	111.53	114.89	0.000517	2.60	708.38	693.56	0.19
E135-00-00_0007	9528	1PCT_100yr	1270.00	105.90	115.12	112.12	115.20	0.000478	2.57	1159.04	1612.56	0.19
E135-00-00_0007	9488		Culvert									
E135-00-00_0007	9449	10PCT_10yr	720.00	104.33	113.34	108.58	113.41	0.000418	2.13	363.61	166.43	0.17
E135-00-00_0007	9449	2PCT_50yr	1090.00	104.33	114.40	109.92	114.48	0.000544	2.37	690.23	542.42	0.19
E135-00-00_0007	9449	1PCT_100yr	1270.00	104.33	115.11	110.50	115.15	0.000367	1.98	1424.31	1408.79	0.16
E135-00-00_0007	9423	10PCT_10yr	720.00	104.48	113.35	107.39	113.39	0.000176	1.54	466.17	80.59	0.11
E135-00-00_0007	9423	2PCT_50yr	1090.00	104.48	114.39	108.06	114.45	0.000261	1.97	552.58	88.56	0.14
E135-00-00_0007	9423	1PCT_100yr	1270.00	104.48	115.07	108.35	115.14	0.000257	2.07	613.15	131.40	0.14
E135-00-00_0007	9415		Bridge									
E135-00-00_0007	9401	10PCT_10yr	720.00	104.59	113.31	108.13	113.36	0.000334	1.94	370.23	73.58	0.15
E135-00-00_0007	9401	2PCT_50yr	1090.00	104.59	114.27	108.91	114.36	0.000468	2.46	443.74	79.65	0.18
E135-00-00_0007	9401	1PCT_100yr	1270.00	104.59	114.89	109.24	114.99	0.000487	2.57	495.00	209.19	0.19
E135-00-00_0007	9357	10PCT_10yr	720.00	104.14	113.30	107.85	113.33	0.000142	1.37	526.71	114.68	0.10
E135-00-00_0007	9357	2PCT_50yr	1090.00	104.14	114.28	108.39	114.33	0.000190	1.76	618.04	711.08	0.12
E135-00-00_0007	9357	1PCT_100yr	1270.00	104.14	114.90	108.63	114.96	0.000191	1.88	676.24	1048.49	0.12
E135-00-00_0007	9330		Bridge									
E135-00-00_0007	9304	10PCT_10yr	720.00	103.79	112.67	107.02	112.70	0.000153	1.41	511.66	93.47	0.11
E135-00-00_0007	9304	2PCT_50yr	1090.00	103.79	114.21	107.62	114.26	0.000154	1.66	655.54	128.98	0.11
E135-00-00_0007	9304	1PCT_100yr	1270.00	103.79	114.80	107.88	114.85	0.000160	1.79	710.50	296.26	0.11
E135-00-00_0007	9282	10PCT_10yr	720.00	103.89	112.66	106.92	112.69	0.000136	1.32	543.87	99.66	0.10
E135-00-00_0007	9282	2PCT_50yr	1090.00	103.89	114.21	107.50	114.24	0.000139	1.55	702.19	204.22	0.10
E135-00-00_0007	9282	1PCT_100yr	1270.00	103.89	114.80	107.75	114.84	0.000143	1.66	763.46	652.63	0.11
E135-00-00_0007	9202		Bridge									
E135-00-00_0007	9120.7	10PCT_10yr	720.00	103.85	112.26	106.40	112.29	0.000145	1.38	522.21	94.15	0.10
E135-00-00_0007	9120.7	2PCT_50yr	1090.00	103.85	113.74	107.02	113.78	0.000164	1.63	669.31	1049.95	0.11
E135-00-00_0007	9120.7	1PCT_100yr	1270.00	103.85	114.28	107.28	114.33	0.000171	1.75	725.16	1220.11	0.12
E135-00-00_0007	9110.7	10PCT_10yr	720.00	103.85	112.25	106.50	112.28	0.000156	1.42	506.32	92.71	0.11
E135-00-00_0007	9110.7	2PCT_50yr	1090.00	103.85	113.73	107.14	113.77	0.000173	1.64	785.67	903.87	0.12
E135-00-00_0007	9110.7	1PCT_100yr	1270.00	103.85	114.29	107.42	114.32	0.000134	1.49	1359.69	1098.93	0.10
E135-00-00_0007	9076.7		Bridge									
E135-00-00_0007	9042.7	10PCT_10yr	720.00	103.45	112.23	106.53	112.26	0.000161	1.43	504.47	94.10	0.11
E135-00-00_0007	9042.7	2PCT_50yr	1090.00	103.45	113.70	107.16	113.74	0.000183	1.68	655.71	169.03	0.12
E135-00-00_0007	9042.7	1PCT_100yr	1270.00	103.45	114.26	107.43	114.31	0.000186	1.75	960.82	1023.67	0.12
E135-00-00_0007	8955.1	10PCT_10yr	770.00	103.05	112.18	106.63	112.24	0.000280	1.93	399.41	70.00	0.14
E135-00-00_0007	8955.1	2PCT_50yr	1160.00	103.05	113.63	107.39	113.71	0.000333	2.29	506.79	649.15	0.16
E135-00-00_0007	8955.1	1PCT_100yr	1360.00	103.05	114.17	107.73	114.27	0.000366	2.47	550.13	699.73	0.17
E135-00-00_0007	8219.0	10PCT_10yr	800.00	101.69	111.88	106.57	111.97	0.000476	2.44	328.52	59.17	0.18
E135-00-00_0007	8219.0	2PCT_50yr	1220.00	101.69	113.25	107.51	113.38	0.000593	2.94	416.14	167.78	0.21
E135-00-00_0007	8219.0	1PCT_100yr	1430.00	101.69	113.75	107.95	113.91	0.000658	3.18	463.33	308.58	0.22
E135-00-00_0007	7810.4	10PCT_10yr	800.00	101.63	111.78		111.83	0.000225	1.77	451.14	76.19	0.13
E135-00-00_0007	7810.4	2PCT_50yr	1220.00	101.63	113.13		113.20	0.000292	2.16	601.24	304.81	0.15
E135-00-00_0007	7810.4	1PCT_100yr	1430.00	101.63	113.63		113.71	0.000295	2.28	836.20	610.89	0.15
E135-00-00_0007	7711.8	10PCT_10yr	810.00	101.62	111.76	106.92	111.80	0.000190	1.67	484.27	78.64	0.12
E135-00-00_0007	7711.8	2PCT_50yr	1230.00	101.62	113.10	108.46	113.17	0.000252	2.07	595.58	428.52	0.14
E135-00-00_0007	7711.8	1PCT_100yr	1450.00	101.62	113.60	109.18	113.68	0.000289	2.27	639.69	647.89	0.15
E135-00-00_0007	7691.3		Culvert									

E135-00-00 Revised Existing
HEC-RAS Output

HEC-RAS Plan: Rev Ext River: E135-00-00 Reach: E135-00-00_0007 (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
E135-00-00_0007	7670.8	10PCT_10yr	810.00	101.44	109.12	105.50	109.23	0.000631	2.61	309.82	63.36	0.21
E135-00-00_0007	7670.8	2PCT_50yr	1230.00	101.44	110.82	105.76	110.95	0.000617	2.88	426.37	73.91	0.21
E135-00-00_0007	7670.8	1PCT_100yr	1450.00	101.44	111.63	106.13	111.77	0.000597	2.97	488.27	78.96	0.21
E135-00-00_0007	7579.9	10PCT_10yr	850.00	100.95	108.97	105.48	109.14	0.001089	3.23	263.31	59.01	0.27
E135-00-00_0007	7579.9	2PCT_50yr	1300.00	100.95	110.67	106.39	110.86	0.001001	3.49	372.17	69.48	0.27
E135-00-00_0007	7579.9	1PCT_100yr	1530.00	100.95	111.49	106.79	111.68	0.000937	3.55	430.92	74.69	0.26
E135-00-00_0007	7131.5	10PCT_10yr	850.00	100.39	108.55		108.70	0.000850	3.08	275.64	53.85	0.24
E135-00-00_0007	7131.5	2PCT_50yr	1300.00	100.39	110.23		110.42	0.000980	3.49	372.38	67.44	0.26
E135-00-00_0007	7131.5	1PCT_100yr	1530.00	100.39	111.02		111.21	0.001167	3.49	460.56	155.14	0.28
E135-00-00_0007	7000.5	10PCT_10yr	870.00	100.22	108.51	103.87	108.60	0.000460	2.37	366.83	68.03	0.18
E135-00-00_0007	7000.5	2PCT_50yr	1340.00	100.22	110.19	104.67	110.30	0.000471	2.76	486.33	76.02	0.19
E135-00-00_0007	7000.5	1PCT_100yr	1580.00	100.22	110.96	105.02	111.09	0.000453	2.91	543.21	116.43	0.19
E135-00-00_0007	6932.0		Bridge									
E135-00-00_0007	6863.5	10PCT_10yr	870.00	100.22	108.43	103.87	108.52	0.000480	2.41	361.27	67.64	0.18
E135-00-00_0007	6863.5	2PCT_50yr	1340.00	100.22	110.10	104.67	110.22	0.000492	2.79	480.22	75.63	0.19
E135-00-00_0007	6863.5	1PCT_100yr	1580.00	100.22	110.85	105.02	110.98	0.000477	2.95	534.86	138.76	0.19
E135-00-00_0007	6690.1	10PCT_10yr	930.00	99.21	108.24	104.51	108.39	0.000964	3.10	300.20	64.22	0.25
E135-00-00_0007	6690.1	2PCT_50yr	1440.00	99.21	109.90	105.42	110.09	0.000952	3.47	415.20	74.38	0.26
E135-00-00_0007	6690.1	1PCT_100yr	1710.00	99.21	110.64	105.84	110.85	0.000945	3.62	472.35	164.08	0.26
E135-00-00_0007	5858.9	10PCT_10yr	950.00	98.38	107.45	103.56	107.60	0.000929	3.11	305.49	63.56	0.25
E135-00-00_0007	5858.9	2PCT_50yr	1478.00	98.38	109.10	104.53	109.30	0.000955	3.53	420.29	83.60	0.26
E135-00-00_0007	5858.9	1PCT_100yr	1759.00	98.38	109.86	104.98	110.06	0.000945	3.67	493.16	241.24	0.26
E135-00-00_0007	5657.4	10PCT_10yr	950.00	98.28	107.27	103.34	107.42	0.000903	3.04	312.28	65.52	0.25
E135-00-00_0007	5657.4	2PCT_50yr	1478.00	98.28	108.92	104.32	109.11	0.000909	3.45	428.56	74.62	0.25
E135-00-00_0007	5657.4	1PCT_100yr	1759.00	98.28	109.68	104.76	109.88	0.000884	3.60	504.22	131.28	0.25
E135-00-00_0007	5559	10PCT_10yr	998.00	98.23	107.16	103.33	107.32	0.001017	3.19	313.26	66.27	0.26
E135-00-00_0007	5559	2PCT_50yr	1561.00	98.23	108.80	104.34	109.01	0.000995	3.63	429.93	77.03	0.26
E135-00-00_0007	5559	1PCT_100yr	1865.00	98.23	109.55	104.80	109.78	0.000950	3.84	485.11	81.95	0.26
E135-00-00_0007	5503.0		Bridge									
E135-00-00_0007	5447	10PCT_10yr	998.00	98.12	106.83	103.22	107.00	0.001157	3.34	298.82	64.83	0.27
E135-00-00_0007	5447	2PCT_50yr	1561.00	98.12	108.46	104.23	108.68	0.001137	3.78	413.02	75.53	0.28
E135-00-00_0007	5447	1PCT_100yr	1865.00	98.12	109.21	104.69	109.45	0.001071	3.99	467.95	80.42	0.28
E135-00-00_0007	5348.6	10PCT_10yr	998.00	97.91	106.71	103.11	106.89	0.001168	3.38	295.34	63.95	0.28
E135-00-00_0007	5348.6	2PCT_50yr	1561.00	97.91	108.34	104.14	108.56	0.001228	3.82	408.41	76.67	0.29
E135-00-00_0007	5348.6	1PCT_100yr	1865.00	97.91	109.09	104.58	109.34	0.001314	3.96	472.44	121.54	0.30
E135-00-00_0007	4823.1	10PCT_10yr	998.00	96.77	106.00	102.47	106.21	0.001396	3.68	271.42	59.09	0.30
E135-00-00_0007	4823.1	2PCT_50yr	1561.00	96.77	107.59	103.62	107.86	0.001457	4.19	373.10	71.32	0.32
E135-00-00_0007	4823.1	1PCT_100yr	1865.00	96.77	108.30	104.13	108.60	0.001472	4.39	428.22	83.60	0.32
E135-00-00_0007	3974.0	10PCT_10yr	998.00	95.78	104.93	101.45	105.11	0.001191	3.37	296.41	65.62	0.28
E135-00-00_0007	3974.0	2PCT_50yr	1561.00	95.78	106.49	102.44	106.72	0.001219	3.85	405.12	74.54	0.29
E135-00-00_0007	3974.0	1PCT_100yr	1865.00	95.78	107.19	102.89	107.45	0.001217	4.05	470.82	135.81	0.29
E135-00-00_0007	3301.1	10PCT_10yr	998.00	95.67	104.14	100.86	104.31	0.001175	3.35	298.29	65.88	0.28
E135-00-00_0007	3301.1	2PCT_50yr	1561.00	95.67	105.67	101.77	105.90	0.001218	3.85	405.51	74.60	0.29
E135-00-00_0007	3301.1	1PCT_100yr	1865.00	95.67	106.37	102.19	106.62	0.001232	4.06	459.16	78.60	0.30
E135-00-00_0007	2595.9	10PCT_10yr	998.00	94.90	102.99		103.26	0.001937	4.14	241.27	56.92	0.35
E135-00-00_0007	2595.9	2PCT_50yr	1561.00	94.90	104.46		104.80	0.002003	4.71	331.09	65.84	0.37
E135-00-00_0007	2595.9	1PCT_100yr	1865.00	94.90	105.14		105.52	0.002002	4.94	377.66	70.02	0.37
E135-00-00_0007	2496.4	10PCT_10yr	1023.00	94.79	102.73	100.13	103.04	0.002293	4.45	229.65	54.89	0.38
E135-00-00_0007	2496.4	2PCT_50yr	1603.00	94.79	104.16	101.19	104.57	0.002400	5.09	314.76	63.72	0.40
E135-00-00_0007	2496.4	1PCT_100yr	1919.00	94.79	104.84	101.69	105.28	0.002407	5.34	359.27	67.88	0.41
E135-00-00_0007	2475.4		Bridge									
E135-00-00_0007	2454.4	10PCT_10yr	1023.00	94.72	102.50	100.06	102.83	0.002545	4.63	220.98	53.91	0.40
E135-00-00_0007	2454.4	2PCT_50yr	1603.00	94.72	103.92	101.12	104.35	0.002645	5.28	303.60	62.63	0.42
E135-00-00_0007	2454.4	1PCT_100yr	1919.00	94.72	104.59	101.62	105.06	0.002645	5.53	346.90	66.75	0.43
E135-00-00_0007	2354.5	10PCT_10yr	1023.00	94.51	102.21		102.55	0.002935	4.71	217.22	58.09	0.43
E135-00-00_0007	2354.5	2PCT_50yr	1603.00	94.51	103.65		104.07	0.002851	5.17	310.31	70.90	0.44
E135-00-00_0007	2354.5	1PCT_100yr	1919.00	94.51	104.34		104.77	0.002754	5.32	360.83	76.99	0.43
E135-00-00_0007	2146.0	10PCT_10yr	1023.00	94.07	101.44		101.86	0.003689	5.23	195.74	52.76	0.48
E135-00-00_0007	2146.0	2PCT_50yr	1603.00	94.07	102.90		103.41	0.003424	5.74	279.38	61.94	0.48

E135-00-00 Revised Existing
HEC-RAS Output

HEC-RAS Plan: Rev Ext River: E135-00-00 Reach: E135-00-00_0007 (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
E135-00-00_0007	2146.0	1PCT_100yr	1919.00	94.07	103.59		104.13	0.003285	5.93	323.80	66.30	0.47
E135-00-00_0007	1632.1	10PCT_10yr	1023.00	92.83	100.49		100.67	0.001421	3.44	297.14	75.27	0.31
E135-00-00_0007	1632.1	2PCT_50yr	1603.00	92.83	102.08		102.30	0.001282	3.75	427.35	88.03	0.30
E135-00-00_0007	1632.1	1PCT_100yr	1919.00	92.83	102.83		103.06	0.001229	3.87	495.59	94.26	0.30
E135-00-00_0007	1525.9	10PCT_10yr	1023.00	92.57	100.34	97.47	100.52	0.001363	3.47	295.11	71.31	0.30
E135-00-00_0007	1525.9	2PCT_50yr	1603.00	92.57	101.93	98.32	102.16	0.001275	3.84	417.44	82.14	0.30
E135-00-00_0007	1525.9	1PCT_100yr	1919.00	92.57	102.68	98.72	102.93	0.001237	3.99	480.87	87.23	0.30
E135-00-00_0007	1498.9		Bridge									
E135-00-00_0007	1471.9	10PCT_10yr	1023.00	92.42	100.05	97.32	100.25	0.001494	3.58	285.57	70.40	0.31
E135-00-00_0007	1471.9	2PCT_50yr	1603.00	92.42	101.65	98.17	101.89	0.001370	3.94	406.72	81.25	0.31
E135-00-00_0007	1471.9	1PCT_100yr	1919.00	92.42	102.40	98.58	102.66	0.001322	4.09	469.38	86.33	0.31
E135-00-00_0007	1375	10PCT_10yr	1023.00	92.27	99.92		100.11	0.001309	3.49	293.03	67.85	0.30
E135-00-00_0007	1375	2PCT_50yr	1603.00	92.27	101.53		101.77	0.001270	3.91	410.32	78.30	0.30
E135-00-00_0007	1375	1PCT_100yr	1919.00	92.27	102.27		102.53	0.001314	4.07	470.98	86.65	0.31
E135-00-00_0007	1140.4	10PCT_10yr	1023.00	91.89	99.67		99.84	0.000997	3.31	309.35	62.04	0.26
E135-00-00_0007	1140.4	2PCT_50yr	1603.00	91.89	101.26		101.49	0.001107	3.86	414.90	71.22	0.28
E135-00-00_0007	1140.4	1PCT_100yr	1919.00	91.89	101.98		102.24	0.001150	4.10	468.15	75.70	0.29
E135-00-00_0007	692.0	10PCT_10yr	1023.00	91.92	99.05	96.04	99.28	0.001610	3.84	266.10	62.02	0.33
E135-00-00_0007	692.0	2PCT_50yr	1603.00	91.92	100.60	97.07	100.89	0.001611	4.33	370.34	72.19	0.34
E135-00-00_0007	692.0	1PCT_100yr	1919.00	91.92	101.31	97.55	101.63	0.001610	4.53	423.69	77.10	0.34

MAP INDEX

FIRM

FLOOD INSURANCE RATE MAP

HARRIS COUNTY, TEXAS

AND INCORPORATED AREAS

(SEE LISTING OF COMMUNITIES TABLE)

MAP INDEX

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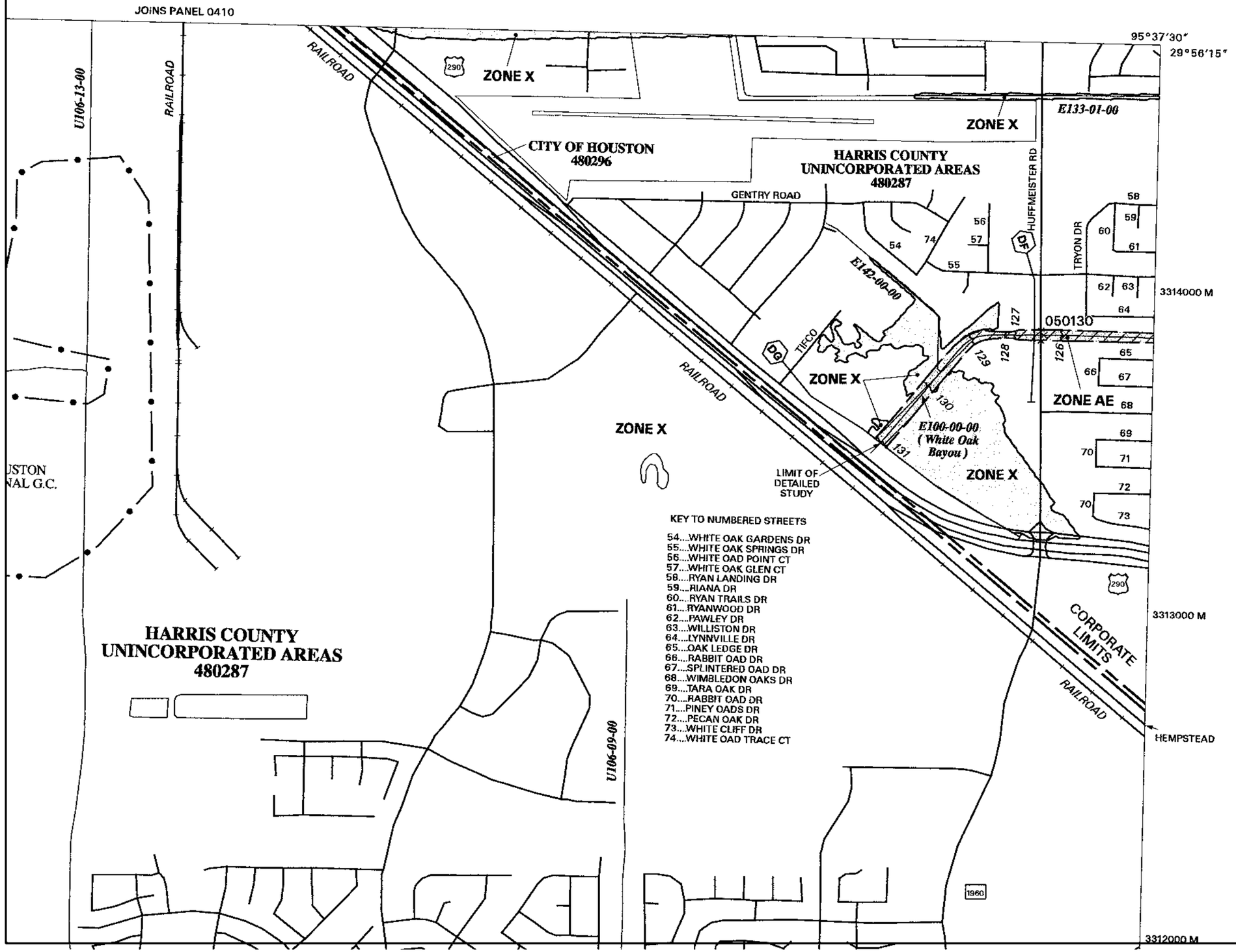
MAP NUMBER
48201CIND0A

MAP REVISED
JUNE 18, 2007

Federal Emergency Management Agency



MAP SCALE 1" = 1000'

500 0 1000 2000 FEET

PANEL 0420L

FIRM

FLOOD INSURANCE RATE MAP

HARRIS COUNTY,
TEXAS
AND INCORPORATED AREAS

PANEL 420 OF 1150

(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

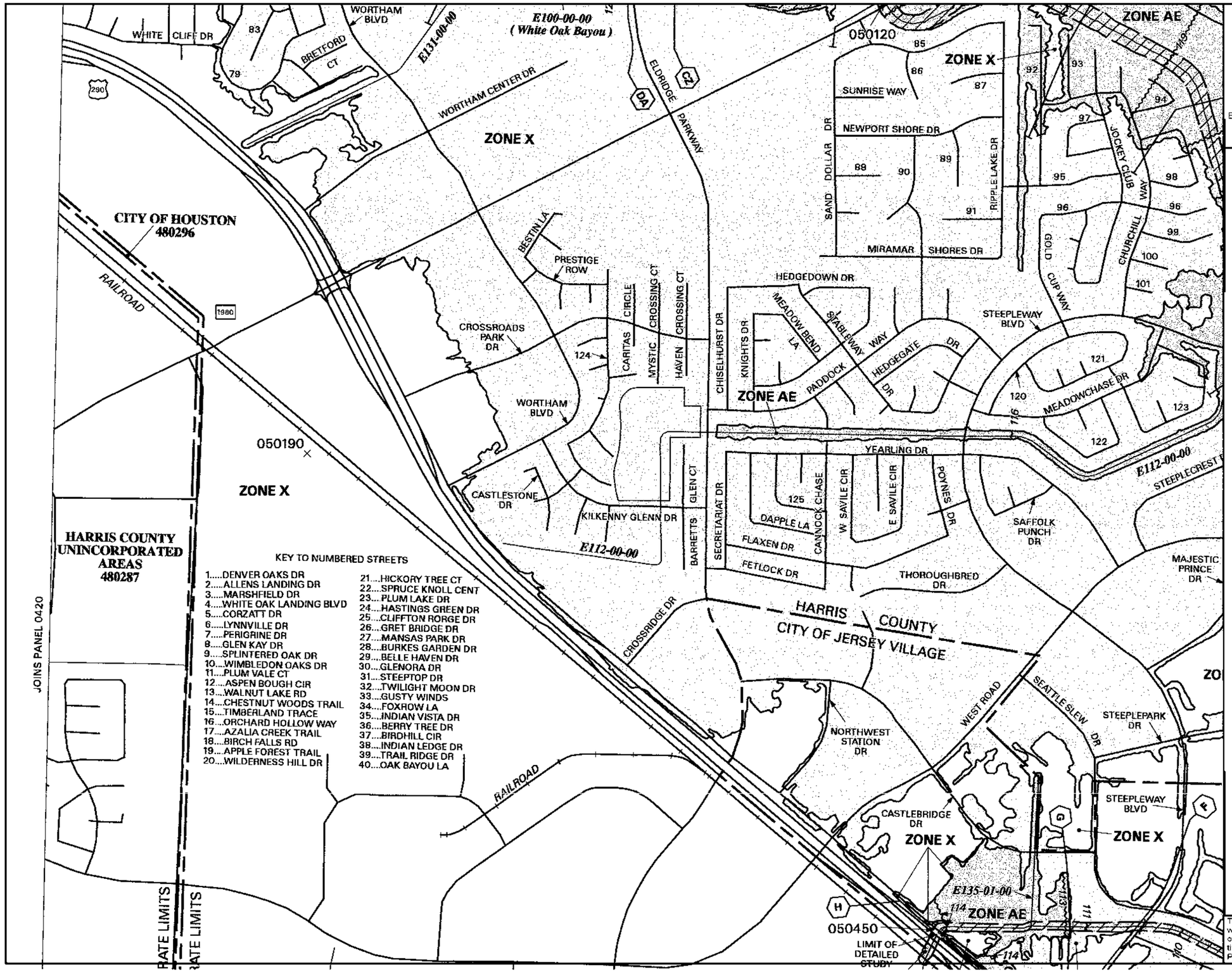
COMMUNITY	NUMBER	PANEL	SUFFIX
HARRIS COUNTY, UNINCORPORATED AREAS	480287	0420	L
HOUSTON, CITY OF	480296	0420	L

Notice to User: The **Map Number** shown below should be used when placing map orders; the **Community Number** shown above should be used on insurance applications for the subject community.

MAP NUMBER
48201C0420L

MAP REVISED:
JUNE 18, 2007

Federal Emergency Management Agency



MAP SCALE 1" = 1000'

500 0 1000 2000 FEET

METERS

PANEL 0440L

FIRM

FLOOD INSURANCE RATE MAP

HARRIS COUNTY, TEXAS AND INCORPORATED AREAS

PANEL 440 OF 1150

(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

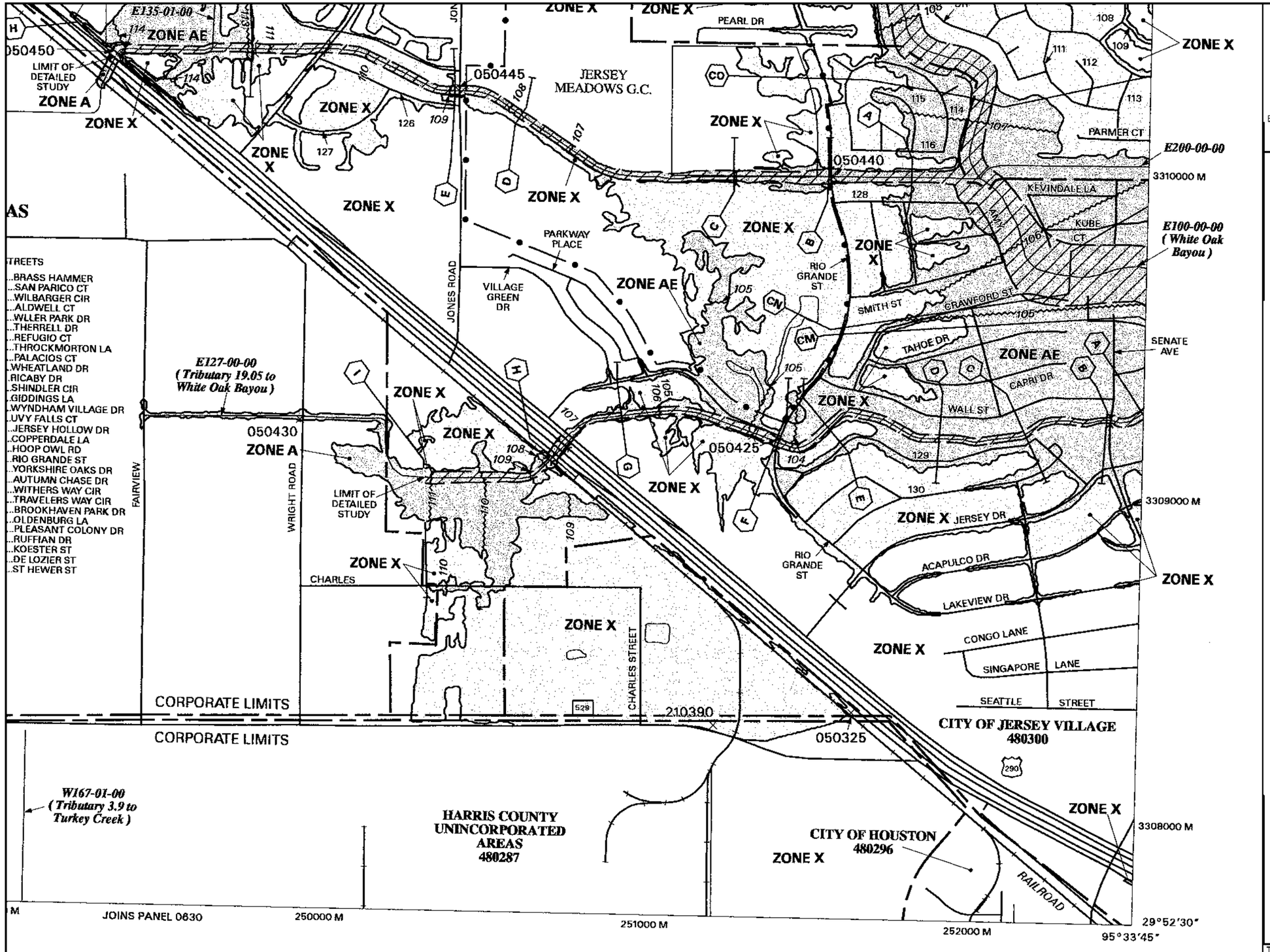
COMMUNITY	NUMBER	PANEL	SUFFIX
HARRIS COUNTY, UNINCORPORATED AREAS	480287	0440	L
JERSEY VILLAGE, CITY OF	480300	0440	L
HOUSTON, CITY OF	480296	0440	L

Notice to User: The **Map Number** shown below should be used when placing map orders; the **Community Number** shown above should be used on insurance applications for the subject community.

MAP NUMBER
48201C0440L

MAP REVISED:
JUNE 18, 2007

Federal Emergency Management Agency



MAP SCALE 1" = 1000'

500 0 1000 2000 FEET

METERS

PANEL 0440L

FIRM

FLOOD INSURANCE RATE MAP

HARRIS COUNTY, TEXAS AND INCORPORATED AREAS

PANEL 440 OF 1150

(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

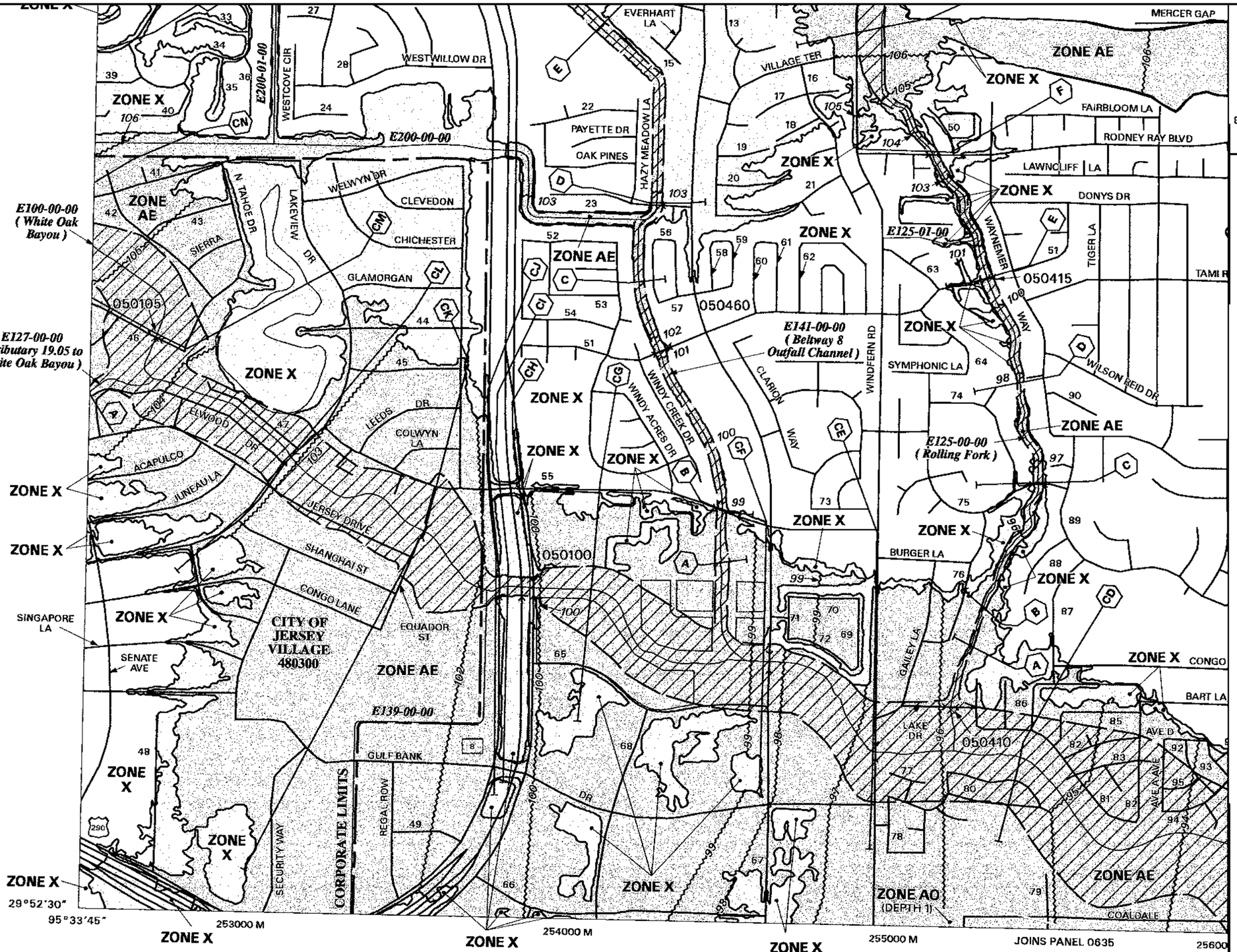
COMMUNITY	NUMBER	PANEL	SUFFIX
HARRIS COUNTY, UNINCORPORATED AREAS	480287	0440	L
JERSEY VILLAGE, CITY OF	480300	0440	L
HOUSTON, CITY OF	480296	0440	L

Notice to User: The **Map Number** shown below should be used when placing map orders; the **Community Number** shown above should be used on insurance applications for the subject community.

MAP NUMBER 48201C0440L

MAP REVISED: JUNE 18, 2007

Federal Emergency Management Agency



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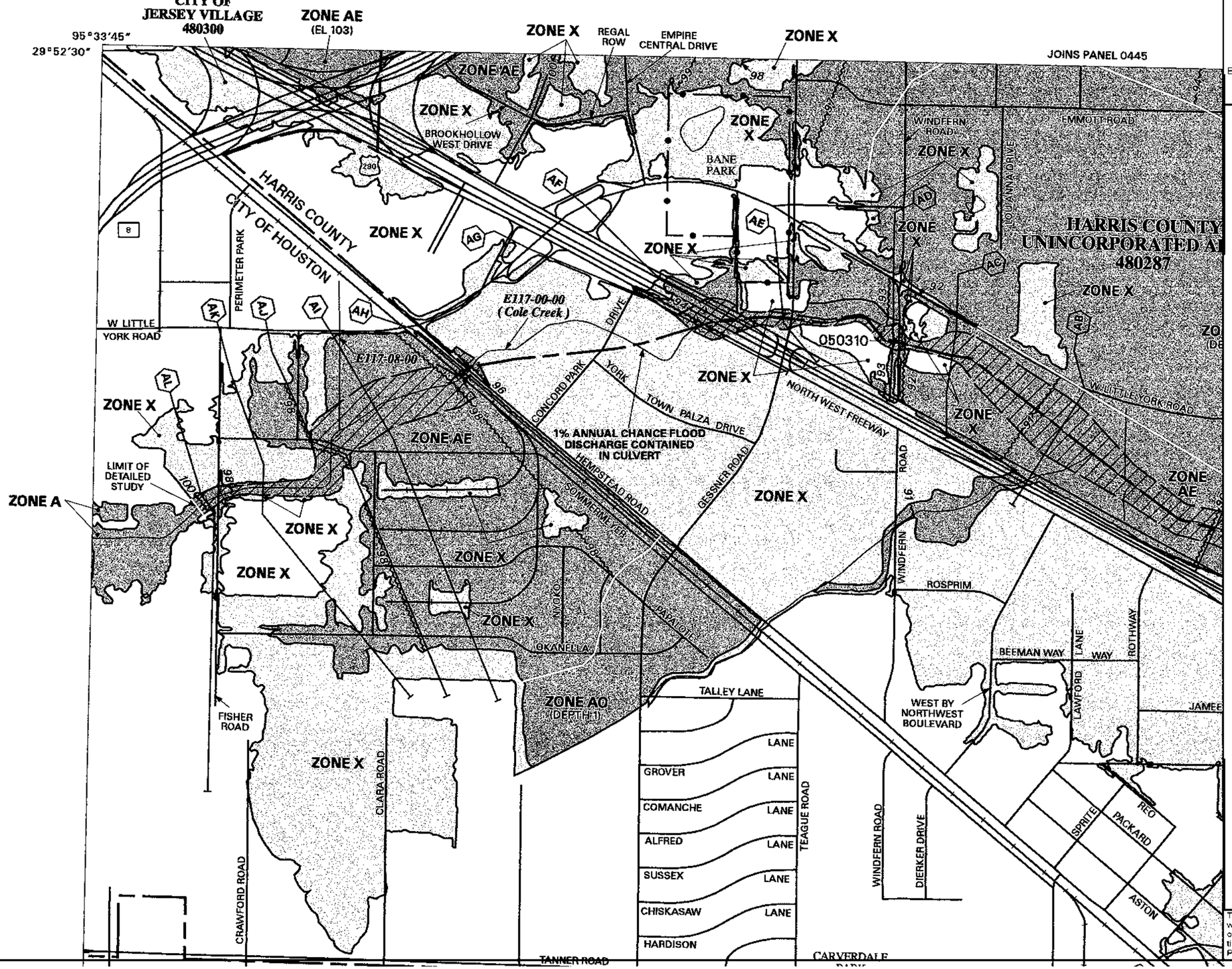

MAP SCALE 1" = 1000'

500 0 1000 2000 FEET

PANEL 0635L

FIRM

FLOOD INSURANCE RATE MAP

HARRIS COUNTY, TEXAS AND INCORPORATED AREAS

PANEL 635 OF 1150

(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
JERSEY VILLAGE, CITY OF	480300	0635	L
HARRIS COUNTY UNINCORPORATED AREAS	480287	0635	L
HOUSTON, CITY OF	480296	0635	L

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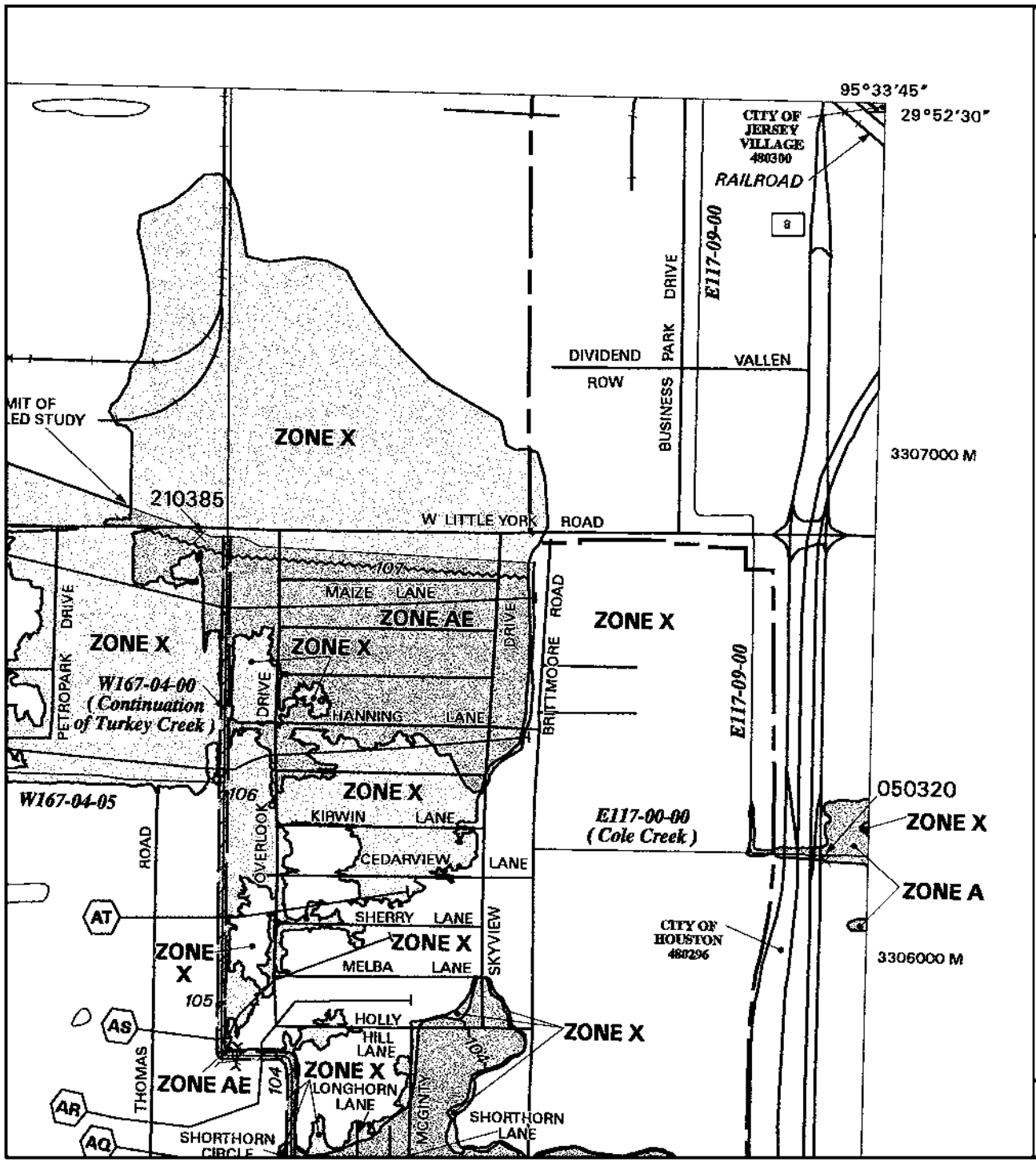
MAP NUMBER 48201C0635L

MAP REVISED: JUNE 18, 2007

Federal Emergency Management Agency

NATIONAL FLOOD INSURANCE PROGRAM



MAP SCALE 1" = 1000'

500 0 1000 2000 FEET

PANEL 0630L

FIRM

FLOOD INSURANCE RATE MAP

HARRIS COUNTY, TEXAS AND INCORPORATED AREAS

PANEL 630 OF 1150

(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
JERSEY VILLAGE, CITY OF	480300	0630	L
HARRIS COUNTY, UNINCORPORATED AREAS	480287	0630	L
HOUSTON, CITY OF	480296	0630	L

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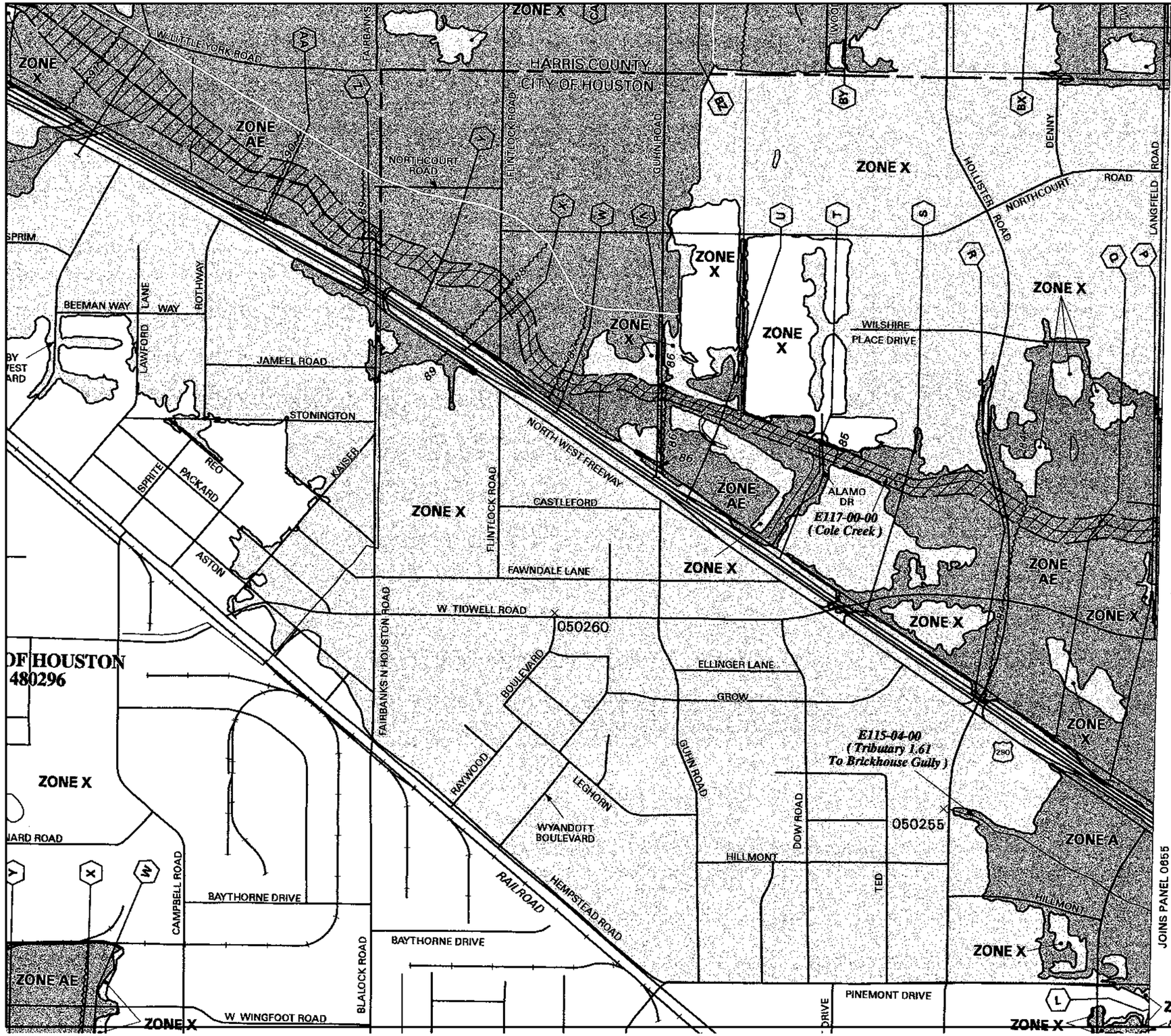
MAP NUMBER
48201C0630L

MAP REVISED:
JUNE 18, 2007

Federal Emergency Management Agency



MAP SCALE 1" = 1000'

500 0 1000 2000 FEET

METERS

PANEL 0635L

FIRM

FLOOD INSURANCE RATE MAP

HARRIS COUNTY, TEXAS AND INCORPORATED AREAS

PANEL 635 OF 1150

(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
JERSEY VILLAGE, CITY OF	480309	0635	L
HARRIS COUNTY, UNINCORPORATED AREAS	480287	0635	L
HOUSTON, CITY OF	480296	0635	L

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MAP NUMBER 48201C0635L

MAP REVISED: JUNE 18, 2007

Federal Emergency Management Agency

National Flood Insurance Program at (800) 638-6620.

MAP SCALE 1" = 1000'

500 0 1000 2000 FEET

PANEL 0655L

FIRM

FLOOD INSURANCE RATE MAP

HARRIS COUNTY, TEXAS AND INCORPORATED AREAS

PANEL 655 OF 1150

(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
HOUSTON, CITY OF	480296	0655	L
HARRIS COUNTY, UNINCORPORATED AREAS	480287	0655	L

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MAP NUMBER 48201C0655L

MAP REVISED: JUNE 18, 2007

Federal Emergency Management Agency

CITY OF HOUSTON 480296

E117-00-00 (Cole Creek)

E100-00-00 (White Oak Bayou)

E115-04-00 (Tributary 1.61 to Brickhouse Gully)

JOINS PANEL 0635

LIMIT OF DETAILED STUDY

050250 050285 050245 050200

ROSSLYN PARK

NACOL PARK

FOREST WEST PARK

DEIHL RD

DE SOTO

GROVEHILL

MILLPORT

GROVECREST

NEWBRIDGE

GOLDEN FOREST DR

PINEMONT DR

CHERRY TREE

HOOVER

ACORN

COTTON DR

43RD

BARNEY RD

LODGE

CLEMSON

FELDSPAR

HEWITT DR

CHESHIRE LA

LIBBEY DR

DE MILO DR

LIDO LA

COLE CREEK DR

SAMPLEY WAY

CHINABERRY DR

SHUMARD DR

BITTERNUT DR

WILLOW OAK DR

NORTHWEST DR

NORTHWEST CENTRAL DR

BURR OAK DR

BINGLE RD

ANTOINE

BOLIVIA

BOLIVIA BLVD

COSTA RICA RD

NORTHFIELD LA

DAYCO AVE

SOUTHERLAND RD

CITADEL LA

LANG RD

THORNWALL

HEMPSTEAD RD

ZONE X

ZONE AE

ZONE A

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National Flood Insurance Program at (800) 638-6620.

MAP SCALE 1" = 1000'

500 0 1000 2000 FEET

PANEL 0655L

FIRM

FLOOD INSURANCE RATE MAP

HARRIS COUNTY, TEXAS AND INCORPORATED AREAS

PANEL 655 OF 1150

(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
HOUSTON, CITY OF	480296	0655	L
HARRIS COUNTY, UNINCORPORATED AREAS	480287	0655	L

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MAP NUMBER 48201C0655L

MAP REVISED: JUNE 18, 2007

Federal Emergency Management Agency

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US 290 / Hempstead Corridor Phase II - Drainage Impact & Mitigation Analysis
Small Watershed Method Hydrologic Calculations

1	2	3	4	5	6	7	8	9	10	11	12	13	18	19	20	25	26	27	28	29	30	31	32	33	34	35	36
COMP POINT NAME	TOTAL DRAINAGE AREA (AC)	PAVED AREA (AC)	GRASSED AREA (AC)	RESD/COMM DEV. (AC)	INDUSTRIAL DEV. (AC)	INC. % IMPERV.	WGH'T RUNOFF COEFF C	OVERLAND LENGTH (FT)	STRM. SWR LENGTH (FT)	CHAN. LENGTH (FT)	TIME OF CONCEN. TC	COMP POINT NAME	OVERLAND VELOCITY (FPS)	STRM. SWR VELOCITY (FT)	CHAN. VELOCITY (FT)	RAINFALL INTENSITY IN/HR						RUNOFF IN CFS					
																100-YR i IN/HR	50-YR i IN/HR	25-YR i IN/HR	10-YR i IN/HR	5-YR i IN/HR	2-YR i IN/HR	100-YR Q CFS	50-YR Q CFS	25-YR Q CFS	10-YR Q CFS	5-YR Q CFS	2-YR Q CFS
	IMP%>>>	100	0	55	73																						
	C>>>>	0.9	0.35	0.65	0.75																						
EXISTING CONDITIONS:																											
OUTFALL 1 (WHITE OAK BAYOU [E100-00-00])																											
A2	0.56	0.53	0.02	0.00		96.04	0.88	0.00	0.00	200.00	10.000	A2	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	5.80	5.49	4.94	4.54	3.97	3.30
A4	0.82	0.80	0.01	0.00		98.41	0.89	0.00	0.00	203.00	10.000	A4	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	8.64	8.18	7.37	6.78	5.92	4.93
A6	1.91	0.31	1.60	0.00		16.25	0.44	0.00	0.00	535.00	10.000	A6	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	9.95	9.42	8.48	7.80	6.82	5.67
A8	0.37	0.26	0.11	0.00		70.59	0.74	30.00	0.00	200.00	10.000	A8	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	3.28	3.10	2.79	2.57	2.25	1.87
A10	0.33	0.23	0.10	0.00		70.48	0.74	60.00	0.00	200.00	10.000	A10	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	2.91	2.75	2.48	2.28	1.99	1.66
A12	0.44	0.28	0.16	0.00		63.80	0.70	60.00	0.00	270.00	10.000	A12	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	3.68	3.48	3.13	2.88	2.52	2.10
A14	0.42	0.32	0.10	0.00		76.02	0.77	45.00	0.00	140.00	10.000	A14	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	3.80	3.60	3.24	2.98	2.61	2.17
A16	0.12	0.00	0.12	0.00		0.00	0.35	0.00	0.00	158.00	10.000	A16	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	0.49	0.46	0.41	0.38	0.33	0.28
A-F4	1.13	0.87	0.26	0.00		77.02	0.77	68.00	0.00	570.00	10.000	A-F4	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	10.35	9.79	8.82	8.11	7.09	5.90
A-F8	0.48	0.28	0.20	0.00		58.00	0.67	82.00	0.00	353.00	10.000	A-F8	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	3.82	3.61	3.25	2.99	2.62	2.18
A-F12	0.27	0.15	0.12	0.00		56.67	0.66	39.00	0.00	202.00	10.000	A-F12	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	2.12	2.01	1.81	1.66	1.45	1.21
A-F16	0.45	0.23	0.21	0.00		52.13	0.64	40.00	0.00	355.00	10.000	A-F16	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	3.38	3.20	2.88	2.65	2.32	1.93
A-F20	0.29	0.16	0.13	0.00		55.21	0.65	39.00	0.00	206.00	10.000	A-F20	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	2.23	2.11	1.90	1.75	1.53	1.27
A-F24	0.68	0.33	0.35	0.00		48.82	0.62	37.00	0.00	585.00	10.000	A-F24	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	4.98	4.71	4.24	3.90	3.41	2.84
A-F28	0.81	0.40	0.41	0.00		49.20	0.62	40.00	0.00	717.00	10.000	A-F28	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	5.98	5.65	5.09	4.68	4.09	3.40
A-F32	0.65	0.31	0.34	0.00		47.52	0.61	41.00	0.00	512.00	10.000	A-F32	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	4.69	4.44	3.99	3.68	3.21	2.67
A-OUT	1.94	1.25	0.68	0.00		64.75	0.71	55.00	0.00	534.00	10.000	A-OUT	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	16.22	15.35	13.82	12.72	11.12	9.24
A-F40	0.95	0.31	0.64	0.00		32.21	0.53	148.00	0.00	239.00	10.000	A-F40	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	5.95	5.63	5.07	4.66	4.07	3.39
A-F38	2.30	0.63	1.66	0.00		27.61	0.50	257.00	0.00	490.00	14.011	A-F38	0.50	3.00	1.50	10.29	9.68	8.72	7.98	6.98	5.75	11.86	11.16	10.05	9.19	8.04	6.63
A-F36	1.18	0.63	0.55	0.00		53.73	0.65	49.00	0.00	739.00	10.000	A-F36	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	9.04	8.56	7.70	7.09	6.20	5.15
C2	0.27	0.27	0.00	0.00		100.00	0.90	0.00	0.00	224.00	10.000	C2	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	2.90	2.74	2.47	2.27	1.98	1.65
C4	0.20	0.20	0.00	0.00		100.00	0.90	0.00	0.00	186.00	10.000	C4	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	2.08	1.97	1.78	1.63	1.43	1.19
C6	0.27	0.27	0.00	0.00		100.00	0.90	0.00	0.00	226.00	10.000	C6	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	2.85	2.70	2.43	2.24	1.95	1.63
C8	0.27	0.27	0.00	0.00		100.00	0.90	0.00	0.00	230.00	10.000	C8	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	2.85	2.70	2.43	2.24	1.95	1.63
A-M2	0.56	0.56	0.00	0.00		100.00	0.90	0.00	0.00	285.00	10.000	A-M2	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	5.95	5.63	5.07	4.67	4.08	3.39
A-M4	0.68	0.14	0.54	0.00		20.65	0.46	68.00	0.00	336.00	10.000	A-M4	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	3.73	3.53	3.18	2.92	2.56	2.13
A-M6	2.81	1.31	1.50	0.00		46.70	0.61	124.00	0.00	943.00	14.611	A-M6	0.50	3.00	1.50	10.10	9.49	8.55	7.82	6.84	5.63	17.20	16.17	14.57	13.32	11.65	9.59
A-M8	1.31	0.83	0.48	0.00		63.28	0.70	83.00	0.00	229.00	10.000	A-M8	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	10.86	10.27	9.25	8.51	7.44	6.19
A-M12	1.83	1.41	0.43	0.00		76.65	0.77	0.00	0.00	680.00	10.000	A-M12	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	16.79	15.89	14.31	13.16	11.51	9.57
A-M14	1.84	1.10	0.74	0.00		59.67	0.68	94.00	0.00	600.00	10.000	A-M14	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	14.82	14.02	12.62	11.61	10.15	8.44
A-M16	2.86	1.71	1.15	0.00		59.75	0.68	90.00	0.00	717.00	10.967	A-M16	0.50	3.00	1.50	11.44	10.81	9.73	8.94	7.82	6.49	22.18	20.95	18.87	17.33	15.16	12.57
A-M18	1.67	1.07	0.60	0.00		64.01	0.70	89.00	0.00	302.00	10.000	A-M18	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	13.92	13.17	11.86	10.91	9.54	7.93
A-M20	1.85	1.33	0.51	0.00		72.23	0.75	95.00	0.00	350.00	10.000	A-M20	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	16.39	15.50	13.96	12.84	11.23	9.34
A-M28	1.15	0.65	0.50	0.00		56.78	0.66	76.00	0.00	466.00	10.000	A-M28	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	9.04	8.56	7.70	7.09	6.20	5.15
A-M30	1.45	0.82	0.63	0.00		56.55	0.66	94.00	0.00	545.00	10.000	A-M30	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	11.38	10.77	9.69	8.92	7.80	6.48
A-M32	0.96	0.96	0.00	0.00		100.00	0.90	0.00	0.00	417.00	10.000	A-M32	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	10.21	9.67	8.70	8.01	7.00	5.82
A11	0.23	0.23	0.00	0.00		100.00	0.90	0.00	0.00	367.00	10.000	A11	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	2.50	2.37	2.13	1.96	1.71	1.42
A-M3	0.87	0.61	0.26	0.00		69.93	0.73	0.00	0.00	723.00	10.000	A-M3	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	7.57	7.16	6.45	5.93	5.19	4.31
A-M5	1.29	0.65	0.64	0.00		50.35	0.63	97.00	0.00	472.00	10.000	A-M5	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	9.58	9.06	8.16	7.51	6.56	5.46
A-M7	2.02	1.37	0.65	0.00		67.67	0.72	0.00	0.00	576.00	10.000	A-M7	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	17.32	16.39	14.76	13.58	11.87	9.87
A-M13	1.60	1.30	0.30	0.00		80.99	0.80	365.00	0.00	284.00	15.322	A-M13	0.50	3.00	1.50	9.88	9.28	8.36	7.63	6.68	5.49	12.57	11.80	10.64	9.71	8.50	6.99
A-M15	1.26	0.78	0.49	0.00		61.54	0.69	85.00	0.00	439.00	10.000	A-M15	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	10.31	9.75	8.78	8.08	7.06	5.87
A-M17	1.29	0.79	0.50	0.00		61.51	0.69	83.00	0.00	469.00	10.000	A-M17	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	10.51	9.94	8.95	8.24	7.20	5.99
A-M19	3.03	2.06	0.97	0.00		67.85	0.72	82.00	0.00	585.00	10.000	A-M19	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	26.02	24.62	22.16	20.39	17.83	14.82
A-M25	1.80	1.29	0.50	0.00		71.91	0.75	69.00	0.00	616.00	10.000	A-M25	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	15.90	15.04	13.54	12.46	10.89	9.06
A-M27	2.39	1.12	1.27	0.00		46.73	0.61	70.00	0.00	630.00	10.000	A-M27	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	17.19	16.27	14.65	13.48	11.78	9.80
A-M35	0.38	0.07	0.31	0.00		19.42	0.46	44.00	0.00	357.00	10.000	A-M35	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	2.07	1.96	1.77	1.62	1.42	1.18
A-M26	2.11	1.32	0.79	0.00		62.56	0.69	88.00	0.00	448.00	10.000	A-M26	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	17.39	16.45	14.81	13.63	11.91	9.91
C1	0.27	0.27	0.00	0.00		100.00	0.90	0.00	0.00	200.00	10.000	C1	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	2.93	2.77	2.49	2.29	2.01	1.67
C3	0.20	0.20	0.00	0.00		100.00	0.90	0.00	0.00	173.00	10.000	C3	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	2.18	2.06	1.86	1.71	1.49	1.24
C5	0.27	0.27	0.00	0.00		100.00	0.90	0.00	0.00	230.00	10.000	C5	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	2.91	2.75	2.48	2.28	1.99	1.66
C7	0.41	0.41	0.00	0.00		100.00	0.90	0.00	0.00	337.00	10.000	C7	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	4.35	4.11	3.71	3.41	2.98	2.48
A-F35	0.74	0.10	0.65	0.00		12.82	0.42	0.00	0.00	354.00	10.000	A-F35	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	3.70	3.50	3.15	2.90	2.53	2.11
A-M31	0.95	0.35	0.59	0.00		37.28	0.56	38.00	0.00	318.00	10.000	A-M31	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	6.24	5.90	5.32	4.89	4.28	3.56
A-M33	0.44	0.44	0.00	0.00		100.00	0.90	38.00	0.00	330.00	10.000	A-M33	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	4.66	4.41	3.97	3.65	3.19	2.65
A-M37	0.93	0.93	0.00	0.00		100.00	0.90	0.00	0.00	535.00	10.000	A-M37	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	9.94	9.40	8.47	7.79	6.81	5.66
A-M39	0.66	0.66	0.00	0.00		100.00	0.90	0.00	0.00	542.00	10.000	A-M39	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	7.06	6.68	6.02	5.54	4.84	4.02
A-M41	1.39	1.39	0.00	0.00		100.00	0.90	0.00	0.00	1090.00	12.111	A-M41	0.50	3.00	1.50	10.97	10.35	9.32	8.55	7.48	6.19	13.73	12.95	11.66	10.69	9.35	7.74
TOTAL	60.55	37.78	22.77	0.00		62.39	0.69																				
OUTFALL 2 (WHITE OAK BAYOU TRIB. [E131-00-00])																											
B2	0.53	0.53	0.00	0.00		100.00	0.90	0.00	0.00	452.00	10.000	B2	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	5.61	5.31	4.78	4.40	3.84	3.20
B4	0.13	0.13	0.00	0.00		100.00	0.90	0.00	0.00	166.00	10.000	B4	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	1.35	1.27	1.15	1.06	0.92	0.77
B6	0.12	0.12	0.00	0.00		100.00	0.90	0.00	0.00	156.00	10.000	B6	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	1.28	1.21	1.09	1.01	0.88	0.73
B8	0.11	0.11	0.00	0.00		100.00	0.90	0.00	0.00	157.00	10.000	B8	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	1.21	1.14	1.03	0.95	0.83	0.69
B10	0.12	0.12	0.00	0.00		100.00	0.90	0.00	0.00	160.00	10.000	B10	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	1.32	1.25	1.13	1.04	0.91	0.75
B12	0.18	0.18	0.00	0.00		100.00	0.90	0.00	0.00	161.00	10.000	B12	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	1.97	1.86	1.67	1.54	1.35	1.12
B14	0.08	0.08	0.00	0.00		100.00	0.90	0.00	0.00	108.00	10.000	B14	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	0.83	0.78	0.71	0.65	0.57	0.47
B16	0.30	0.30	0.00	0.00		100.00	0.90	0.00	0.00	467.00	10.000	B16	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	3.17	3.00	2.70	2.49	2.17	1.81
B18	0.31	0.31	0.00	0.00		100.00	0.90	0.00	0.00	165.00	10.000	B18	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	3.26	3.08	2.78	2.55	2.23	1.86
B20	0.14	0.14	0.00	0.00		100.00	0.90	0.00	0.00	150.00	10.000	B20	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	1.45	1.37	1.24	1.14	1.00	0.83
B22	0.22	0.13	0.09	0.00		60.09	0.68	0.00	0.00	158.00	10.000	B22	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	1.76	1.67	1.50	1.38	1.21	1.00
B24	0.61	0.20	0.41	0.00		32.41	0.53	83.00	0.00	112.00	10.000	B24	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	3.83	3.63	3.26	3.00	2.63	2.18

US 290 / Hempstead Corridor Phase II - Drainage Impact & Mitigation Analysis

Small Watershed Method Hydrologic Calculations

1	2	3	4	5	6	7	8	9	10	11	12	13	18	19	20	25	26	27	28	29	30	31	32	33	34	35	36
																RAINFALL INTENSITY IN/HR						RUNOFF IN CFS					
COMP POINT NAME	TOTAL DRAINAGE AREA (AC)	PAVED AREA (AC)	GRASSED AREA (AC)	RESD/COMM DEV. (AC)	INDUSTRIAL DEV. (AC)	INC. % IMPERV.	WGH'T RUNOFF COEFF C	OVERLAND LENGTH (FT)	STRM. SWR LENGTH (FT)	CHAN. LENGTH (FT)	TIME OF CONCEN. TC	COMP POINT NAME	OVERLAND VELOCITY (FPS)	STRM. SWR VELOCITY (FT)	CHAN. VELOCITY (FT)	100-YR i IN/HR	50-YR i IN/HR	25-YR i IN/HR	10-YR i IN/HR	5-YR i IN/HR	2-YR i IN/HR	100-YR Q CFS	50-YR Q CFS	25-YR Q CFS	10-YR Q CFS	5-YR Q CFS	2-YR Q CFS
B26	0.30	0.11	0.18	0.00		38.05	0.56	59.00	0.00	120.00	10.000	**B26**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*1.97*	*1.87*	*1.68*	*1.55*	*1.35*	*1.12*
B28	0.18	0.09	0.09	0.00		50.28	0.63	55.00	0.00	100.00	10.000	**B28**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*1.33*	*1.26*	*1.13*	*1.04*	*0.91*	*0.76*
B30	0.20	0.19	0.01	0.00		95.15	0.87	0.00	0.00	157.00	10.000	**B30**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*2.05*	*1.94*	*1.75*	*1.61*	*1.41*	*1.17*
B32	0.07	0.07	0.00	0.00		93.43	0.86	0.00	0.00	94.00	10.000	**B32**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*0.72*	*0.68*	*0.61*	*0.56*	*0.49*	*0.41*
B34	0.30	0.29	0.01	0.00		96.90	0.88	0.00	0.00	384.00	10.000	**B34**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*3.11*	*2.95*	*2.65*	*2.44*	*2.13*	*1.77*
B40	0.08	0.08	0.00	0.00		100.00	0.90	0.00	0.00	146.00	10.000	**B40**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*0.87*	*0.82*	*0.74*	*0.68*	*0.59*	*0.49*
B42	0.73	0.73	0.00	0.00		100.00	0.90	0.00	0.00	418.00	10.000	**B42**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*7.76*	*7.34*	*6.61*	*6.08*	*5.32*	*4.42*
B44	0.56	0.56	0.00	0.00		100.00	0.90	0.00	0.00	292.00	10.000	**B44**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*6.02*	*5.69*	*5.13*	*4.72*	*4.12*	*3.43*
B38	0.09	0.09	0.00	0.00		100.00	0.90	0.00	0.00	156.00	10.000	**B38**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*0.91*	*0.86*	*0.77*	*0.71*	*0.62*	*0.52*
B36	0.05	0.05	0.00	0.00		93.88	0.87	0.00	0.00	93.00	10.000	**B36**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*0.50*	*0.48*	*0.43*	*0.40*	*0.35*	*0.29*
B-M2	1.04	1.04	0.00	0.00		100.00	0.90	0.00	0.00	585.00	10.000	**B-M2**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*11.11*	*10.51*	*9.47*	*8.71*	*7.61*	*6.33*
B-M4	0.22	0.22	0.00	0.00		100.00	0.90	0.00	0.00	295.00	10.000	**B-M4**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*2.37*	*2.24*	*2.02*	*1.86*	*1.63*	*1.35*
B-M6	0.54	0.54	0.00	0.00		100.00	0.90	0.00	0.00	698.00	10.000	**B-M6**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*5.76*	*5.45*	*4.91*	*4.51*	*3.95*	*3.28*
B-M20	1.02	1.02	0.00	0.00		100.00	0.90	0.00	0.00	700.00	10.000	**B-M20**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*10.90*	*10.31*	*9.29*	*8.54*	*7.47*	*6.21*
B-M22	1.69	1.69	0.00	0.00		100.00	0.90	0.00	0.00	960.00	10.667	**B-M22**	0.50	3.00	1.50	*11.57*	*10.94*	*9.85*	*9.05*	*7.91*	*6.57*	*17.60*	*16.63*	*14.98*	*13.77*	*12.04*	*9.99*
B-M24	1.18	1.18	0.00	0.00		100.00	0.90	0.00	0.00	890.00	10.000	**B-M24**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*12.62*	*11.94*	*10.75*	*9.89*	*8.65*	*7.19*
B-M8	0.45	0.00	0.45	0.00		0.00	0.35	0.00	0.00	645.00	10.000	**B-M8**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*1.87*	*1.77*	*1.60*	*1.47*	*1.28*	*1.07*
B-M10	0.35	0.35	0.00	0.00		100.00	0.90	32.00	0.00	187.00	10.000	**B-M10**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*3.77*	*3.57*	*3.21*	*2.96*	*2.58*	*2.15*
B-M12	0.60	0.00	0.60	0.00		0.00	0.35	0.00	0.00	385.00	10.000	**B-M12**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*2.48*	*2.35*	*2.11*	*1.94*	*1.70*	*1.41*
B-F2	2.49	0.00	2.49	0.00		0.00	0.35	204.00	0.00	761.00	15.256	**B-F2**	0.50	3.00	1.50	*9.90*	*9.30*	*8.38*	*7.65*	*6.70*	*5.51*	*8.63*	*8.10*	*7.30*	*6.67*	*5.84*	*4.80*
B-F4	1.85	0.00	1.85	0.00		0.00	0.35	302.00	0.00	686.00	17.689	**B-F4**	0.50	3.00	1.50	*9.22*	*8.64*	*7.79*	*7.09*	*6.21*	*5.08*	*5.96*	*5.58*	*5.04*	*4.58*	*4.01*	*3.29*
B-F3	6.18	0.32	5.86	0.00		5.13	0.38	474.00	0.00	385.00	20.078	**B-F3**	0.50	3.00	1.50	*8.66*	*8.09*	*7.30*	*6.63*	*5.80*	*4.73*	*20.23*	*18.90*	*17.05*	*15.48*	*13.56*	*11.05*
B-F5	5.02	0.50	4.52	0.00		9.94	0.40	380.00	0.00	544.00	18.711	**B-F5**	0.50	3.00	1.50	*8.97*	*8.39*	*7.57*	*6.88*	*6.03*	*4.93*	*18.23*	*17.06*	*15.38*	*13.99*	*12.25*	*10.01*
B-F7	5.24	1.03	4.21	0.00		19.70	0.46	241.00	0.00	521.00	13.822	**B-F7**	0.50	3.00	1.50	*10.36*	*9.74*	*8.78*	*8.03*	*7.03*	*5.79*	*24.89*	*23.41*	*21.10*	*19.30*	*16.89*	*13.92*
B-F9	6.70	0.81	5.88	0.00		12.11	0.42	376.00	0.00	480.00	17.867	**B-F9**	0.50	3.00	1.50	*9.18*	*8.60*	*7.75*	*7.06*	*6.18*	*5.05*	*25.61*	*23.97*	*21.62*	*19.68*	*17.23*	*14.10*
B-F11	7.18	0.89	6.29	0.00		12.42	0.42	466.00	0.00	426.00	20.267	**B-F11**	0.50	3.00	1.50	*8.62*	*8.05*	*7.26*	*6.59*	*5.78*	*4.71*	*25.89*	*24.18*	*21.81*	*19.80*	*17.34*	*14.14*
B-M38	0.70	0.70	0.00	0.00		100.00	0.90	0.00	0.00	530.00	10.000	**B-M38**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*7.45*	*7.05*	*6.34*	*5.84*	*5.10*	*4.24*
B-M52	1.82	1.82	0.00	0.00		100.00	0.90	0.00	0.00	1345.00	14.944	**B-M52**	0.50	3.00	1.50	*9.99*	*9.39*	*8.46*	*7.73*	*6.76*	*5.57*	*16.33*	*15.35*	*13.83*	*12.63*	*11.06*	*9.10*
B-M43	0.06	0.06	0.00	0.00		100.00	0.90	0.00	0.00	128.00	10.000	**B-M43**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*0.64*	*0.61*	*0.55*	*0.50*	*0.44*	*0.37*
B-M44	0.06	0.06	0.00	0.00		100.00	0.90	0.00	0.00	145.00	10.000	**B-M44**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*0.66*	*0.63*	*0.56*	*0.52*	*0.45*	*0.38*
B-M45	0.06	0.06	0.00	0.00		100.00	0.90	0.00	0.00	134.00	10.000	**B-M45**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*0.61*	*0.58*	*0.52*	*0.48*	*0.42*	*0.35*
B-M46	0.06	0.06	0.00	0.00		100.00	0.90	0.00	0.00	134.00	10.000	**B-M46**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*0.61*	*0.58*	*0.52*	*0.48*	*0.42*	*0.35*
B-M14	0.60	0.00	0.60	0.00		0.02	0.35	0.00	0.00	554.00	10.000	**B-M14**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*2.50*	*2.36*	*2.13*	*1.96*	*1.71*	*1.42*
B-M16	0.44	0.00	0.44	0.00		0.00	0.35	22.00	0.00	422.00	10.000	**B-M16**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*1.81*	*1.71*	*1.54*	*1.42*	*1.24*	*1.03*
B-M18	0.32	0.00	0.32	0.00		0.00	0.35	39.00	0.00	303.00	10.000	**B-M18**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*1.34*	*1.27*	*1.14*	*1.05*	*0.92*	*0.76*
B-F20	0.03	0.03	0.00	0.00		100.00	0.90	0.00	0.00	63.00	10.000	**B-F20**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*0.36*	*0.34*	*0.31*	*0.28*	*0.25*	*0.21*
B-F23	0.45	0.45	0.00	0.00		100.00	0.90	0.00	0.00	362.00	10.000	**B-F23**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*4.75*	*4.50*	*4.05*	*3.73*	*3.26*	*2.71*
B-F21	4.47	0.44	4.03	0.00		9.75	0.40	42.00	0.00	698.00	10.000	**B-F21**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*21.42*	*20.27*	*18.25*	*16.79*	*14.68*	*12.20*
B-F1	2.11	0.76	1.35	0.00		35.98	0.55	63.00	0.00	276.00	10.000	**B-F1**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*13.70*	*12.97*	*11.68*	*10.74*	*9.39*	*7.81*
B-M1	1.38	0.85	0.53	0.00		61.35	0.69	0.00	0.00	750.00	10.000	**B-M1**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*11.25*	*10.65*	*9.59*	*8.82*	*7.71*	*6.41*
B-M3	1.40	0.83	0.57	0.00		59.51	0.68	0.00	0.00	573.00	10.000	**B-M3**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*11.24*	*10.64*	*9.58*	*8.81*	*7.70*	*6.41*
B-M9	2.17	1.24	0.93	0.00		56.98	0.66	0.00	0.00	845.00	10.000	**B-M9**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*17.08*	*16.16*	*14.55*	*13.39*	*11.71*	*9.73*
B-M11	0.97	0.65	0.32	0.00		67.08	0.72	0.00	0.00	590.00	10.000	**B-M11**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*8.27*	*7.83*	*7.05*	*6.48*	*5.67*	*4.71*
B-F19	0.87	0.24	0.00	0.63		67.59	0.72	0.00	0.00	260.00	10.000	**B-F19**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*7.43*	*7.03*	*6.33*	*5.82*	*5.09*	*4.23*
B-F17	7.99	0.28	3.41	4.31		33.08	0.53	85.00	0.00	1080.00	14.833	**B-F17**	0.50	3.00	1.50	*10.03*	*9.42*	*8.49*	*7.76*	*6.79*	*5.59*	*42.52*	*39.95*	*36.01*	*32.90*	*28.78*	*23.69*
B-F15	0.71	0.12	0.59	0.00		17.33	0.45	179.00	0.00	160.00	10.000	**B-F15**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*3.75*	*3.55*	*3.20*	*2.94*	*2.57*	*2.14*
B-F13	10.89	0.18	10.70	0.00		1.69	0.36	900.00	0.00	280.00	33.111	**B-F13**	0.50	3.00	1.50	*6.61*	*6.11*	*5.52*	*4.96*	*4.35*	*3.48*	*25.86*	*23.92*	*21.61*	*19.40*	*17.02*	*13.63*
B-F71	3.13	0.36	2.77	0.00		11.52	0.41	569.00	0.00	127.00	20.378	**B-F71**	0.50	3.00	1.50	*8.60*	*8.03*	*7.24*	*6.57*	*5.76*	*4.69*	*11.10*	*10.37*	*9.36*	*8.49*	*7.44*	*6.06*
B-F73	1.77	0.13	0.00	1.64		58.38	0.67	60.00	0.00	400.00	10.000	**B-F73**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*14.06*	*13.30*	*11.98*	*11.02*	*9.64*	*8.01*
B-F75	0.38	0.11	0.00	0.27		67.69	0.72	0.00	0.00	130.00	10.000	**B-F75**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*3.25*	*3.08*	*2.77*	*2.55*	*2.23*	*1.85*
B-F77	0.79	0.52	0.00	0.27		84.69	0.81	0.00	0.00	207.00	10.000	**B-F77**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*7.68*	*7.27*	*6.54*	*6.02*	*5.26*	*4.38*
B-F33	0.45	0.18	0.00	0.27		73.23	0.75	0.00	0.00	202.00	10.000	**B-F33**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*4.05*	*3.83*	*3.45*	*3.17*	*2.77*	*2.31*
B-F35	1.52	0.32	0.00	1.20		64.55	0.70	0.00	0.00	385.00	10.000	**B-F35**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*12.66*	*11.98*	*10.79*	*9.93*	*8.68*	*7.21*
B-F37	1.21	0.43	0.00	0.78		70.95	0.74	0.00	0.00	265.00	10.000	**B-F37**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*10.59*	*10.02*	*9.03*	*8.30*	*7.26*	*6.04*
B-F39	0.54	0.12	0.00	0.42		65.20	0.71	0.00	0.00	235.00	10.000	**B-F39**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*4.53*	*4.29*	*3.86*	*3.55*	*3.10*	*2.58*
B-F41	0.14	0.14	0.00	0.00		100.00	0.90	0.00	0.00	142.00	10.000	**B-F41**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*1.47*	*1.40*	*1.26*	*1.16*	*1.01*	*0.84*
B-F45	0.24	0.24	0.00	0.00		100.00	0.90	0.00	0.00	231.00	10.000	**B-F45**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*2.58*	*2.44*	*2.19*	*2.02*	*1.76*	*1.47*
B-F47	0.15	0.15	0.00	0.00		100.00	0.90	0.00	0.00	155.00	10.000	**B-F47**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*1.63*	*1.55*	*1.39*	*1.28*	*1.12*	*0.93*
B-F49	0.24	0.24	0.00	0.00		100.00	0.90	0.00	0.00	205.00	10.000	**B-F49**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*2.56*	*2.43*	*2.18*	*2.01*	*1.76*	*1.46*
B-F51	1.52	0.12	0.00	1.40		58.56	0.67	0.00	0.00	435.00	10.000	**B-F51**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*12.11*	*11.46*	*10.32*	*9.49*	*8.30*	*6.90*
B-F53	2.32	0.49	0.00	1.83		64.59	0.70	0.00	0.00	565.00	10.000	**B-F53**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*19.39*	*18.35*	*16.52*	*15.20*	*13.29*	*11.05*
B-F55	2.23	0.11	0.00	2.12		57.25	0.66	0.00	0.00	480.00	10.000	**B-F55**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*17.52*	*16.58*	*14.93*	*13.74*	*12.01*	*9.98*
B-F59	0.82	0.35	0.00	0.46		74.45	0.76	0.00	0.00	300.00	10.000	**B-F59**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*7.35*	*6.96*	*6.26*	*5.76*	*5.04*	*4.19*
TOTAL	**102.11**	**27.02**	**59.51**	**15.59**		**34.86**	**0.54**																				
OUTFALL 3 (SH6)																											
F1	5.39	1.27	4.12	0.00		23.55	0.48	381.00	0.00	741.00	20.933	**F1**	0.50	3.00	1.50	*8.48*	*7.91*	*7.14*	*6.48*	*5.67*	*4.62*	*21.91*	*20.45*	*18.45*	*16.74*	*14.66*	*11.94*
F2	0.21	0.21	0.00	0.00		100.00	0.90	0.00	0.00	300.00	10.000	**F2**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*2.21*	*2.09*	*1.88*	*1.73*	*1.52*	*1.26*
F3	2.10	0.60	1.50	0.00		28.38	0.51	196.00	0.00	177.00	10.000	**F3**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*12.62*	*11.94*	*10.76*	*9.90*	*8.65*	*7.19*
F4	1.45	1.15	0.30	0.00		79.37	0.79	0.00	0.00	674.00	10.000	**F4**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*13.52*	*12.79*	*11.52*	*10.60*	*9.27*	*7.70*
F5	0.24	0.24	0.00	0.00		100.00	0.90	0.00	0.00	233.00	10.000	**F5**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*2.58*	*2.44*	*2.19*	*2.02*	*1.76*	*1.47*
F6	0.24	0.24	0.00	0.00		100.00	0.90	0.00	0.00	233.00	10.000	**F6**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*2.58*	*2.44*	*2.19*	*2.02*	*1.76*	*1.47*
F7	0.13	0.13	0.00	0.00		100.00	0.90	0.00	0.00	139.00	10.000	**F7**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*1.34*	*1.26*	*1.14*	*1.05*	*0.92*	*0.76*
F8	0.12	0.12	0.00	0.00		100.00	0.90	0.00	0.00	139.00	10.000	**F8**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*1.30*	*1.23*	*1.11*	*1.02*	*0.89*	*0.74*
F9	1.05	0.26	0.79	0.00		24.59	0.49	205.00	0.00	140.00	10.000	**F9**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*6.03*	*5.70*	*5.13*	*4.72*	*4.13*	*3.43*
F10	0.35	0.30	0.05	0.00		84.69	0.82	0.00	0.00	225.00	10.000	**F10**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*3.43*	*3.24*	*2.92*	*2.69*	*2.35*	*1.95*
F12	0.40	0.33	0.07	0.00		82.80	0.81	0.00	0.00	270.00	10.000	**F12**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*3.85*	*3.65*	*3.28*	*3.02*	*2.64*	*2.20*
F13	1.60	0.28	1.32	0.00		17.56	0.45	250.00	0.00	200.00	10.556	**F13**	0.50	3.00	1.50	*11.62*	*10.98*	*9.89*	*9.09*	*7.95*	*6.60*	*8.32*	*7.86*	*7.08*	*6.51*	*5.69*	*4.73*
F15	2.77	0.48	2.29	0.00		17.44	0.45	270.00	0.00	245.00	11.722	**F15**	0.50	3.00	1.50	*11.13*	*10.50*	*9.46*	*8.68*	*7.59*	*6.29*	*13.76*	*12.99*	*11.70*	*10.73*	*9.39*	*7.77*

US 290 / Hempstead Corridor Phase II - Drainage Impact & Mitigation Analysis
Small Watershed Method Hydrologic Calculations

1	2	3	4	5	6	7	8	9	10	11	12	13	18	19	20	25	26	27	28	29	30	31	32	33	34	35	36
																RAINFALL INTENSITY IN/HR						RUNOFF IN CFS					
COMP POINT NAME	TOTAL DRAINAGE AREA (AC)	PAVED AREA (AC)	GRASSED AREA (AC)	RESD/COMM DEV. (AC)	INDUSTRIAL DEV. (AC)	INC. % IMPERV.	WGH'T RUNOFF COEFF C	OVERLAND LENGTH (FT)	STRM. SWR LENGTH (FT)	CHAN. LENGTH (FT)	TIME OF CONCEN. TC	COMP POINT NAME	OVERLAND VELOCITY (FPS)	STRM. SWR VELOCITY (FT)	CHAN. VELOCITY (FT)	100-YR i IN/HR	50-YR i IN/HR	25-YR i IN/HR	10-YR i IN/HR	5-YR i IN/HR	2-YR i IN/HR	100-YR Q CFS	50-YR Q CFS	25-YR Q CFS	10-YR Q CFS	5-YR Q CFS	2-YR Q CFS
F16	0.36	0.25	0.11	0.00		68.76	0.73	0.00	0.00	260.00	10.000	**F16**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*3.14*	*2.97*	*2.67*	*2.46*	*2.15*	*1.79*
F17	0.73	0.19	0.00	0.54		66.71	0.72	120.00	0.00	190.00	10.000	**F17**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*6.23*	*5.90*	*5.31*	*4.88*	*4.27*	*3.55*
F18	0.75	0.52	0.22	0.00		70.27	0.74	0.00	0.00	280.00	10.000	**F18**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*6.51*	*6.16*	*5.55*	*5.11*	*4.46*	*3.71*
F19	0.65	0.15	0.00	0.50		65.13	0.71	115.00	0.00	150.00	10.000	**F19**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*5.46*	*5.16*	*4.65*	*4.28*	*3.74*	*3.11*
F21	0.38	0.22	0.00	0.16		80.65	0.79	115.00	0.00	95.00	10.000	**F21**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*3.57*	*3.37*	*3.04*	*2.80*	*2.44*	*2.03*
F24	0.29	0.21	0.08	0.00		71.26	0.74	0.00	0.00	236.00	10.000	**F24**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*2.59*	*2.45*	*2.21*	*2.03*	*1.77*	*1.48*
F26	0.24	0.20	0.04	0.00		83.54	0.81	0.00	0.00	186.00	10.000	**F26**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*2.28*	*2.16*	*1.94*	*1.79*	*1.56*	*1.30*
F28	0.14	0.11	0.03	0.00		80.28	0.79	0.00	0.00	123.00	10.000	**F28**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*1.33*	*1.26*	*1.14*	*1.05*	*0.91*	*0.76*
TOTAL	**19.60**	**7.45**	**10.93**	**1.21**		**41.43**	**0.58**																				
OUTFALL 4 (FM 1960)																											
D1	0.46	0.16	0.00	0.30		70.52	0.74	0.00	0.00	225.00	10.000	**D1**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*4.03*	*3.81*	*3.43*	*3.16*	*2.76*	*2.30*
D2	1.71	0.65	1.06	0.00		38.18	0.56	315.00	0.00	285.00	13.667	**D2**	0.50	3.00	1.50	*10.41*	*9.79*	*8.83*	*8.08*	*7.07*	*5.83*	*9.96*	*9.37*	*8.45*	*7.73*	*6.76*	*5.58*
D3	0.58	0.19	0.00	0.39		69.70	0.73	125.00	0.00	130.00	10.000	**D3**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*5.01*	*4.74*	*4.27*	*3.93*	*3.43*	*2.86*
D4	0.91	0.16	0.74	0.00		18.00	0.45	300.00	0.00	120.00	11.333	**D4**	0.50	3.00	1.50	*11.28*	*10.66*	*9.60*	*8.81*	*7.70*	*6.39*	*4.60*	*4.34*	*3.91*	*3.59*	*3.14*	*2.60*
D5	0.63	0.19	0.00	0.44		68.64	0.73	140.00	0.00	135.00	10.000	**D5**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*5.39*	*5.10*	*4.59*	*4.22*	*3.69*	*3.07*
D6	0.63	0.16	0.47	0.00		25.57	0.49	190.00	0.00	135.00	10.000	**D6**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*3.69*	*3.49*	*3.15*	*2.89*	*2.53*	*2.10*
D7	1.46	0.42	0.00	1.04		67.91	0.72	150.00	0.00	165.00	10.000	**D7**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*12.48*	*11.80*	*10.63*	*9.78*	*8.55*	*7.11*
D8	1.09	0.28	0.81	0.00		25.53	0.49	100.00	0.00	165.00	10.000	**D8**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*6.34*	*6.00*	*5.40*	*4.97*	*4.34*	*3.61*
D9	0.53	0.17	0.00	0.37		69.10	0.73	160.00	0.00	110.00	10.000	**D9**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*4.60*	*4.35*	*3.92*	*3.61*	*3.15*	*2.62*
D10	0.38	0.09	0.29	0.00		23.14	0.48	105.00	0.00	110.00	10.000	**D10**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*2.16*	*2.05*	*1.84*	*1.70*	*1.48*	*1.23*
D11	1.24	0.33	0.00	0.91		66.96	0.72	170.00	0.00	140.00	10.000	**D11**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*10.56*	*10.00*	*9.00*	*8.28*	*7.24*	*6.02*
D12	0.88	0.21	0.67	0.00		23.40	0.48	100.00	0.00	140.00	10.000	**D12**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*4.98*	*4.71*	*4.24*	*3.90*	*3.41*	*2.84*
D13	0.71	0.17	0.00	0.54		65.68	0.71	170.00	0.00	140.00	10.000	**D13**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*5.99*	*5.67*	*5.10*	*4.69*	*4.10*	*3.41*
D14	0.51	0.12	0.39	0.00		23.74	0.48	100.00	0.00	145.00	10.000	**D14**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*2.88*	*2.73*	*2.45*	*2.26*	*1.97*	*1.64*
D15	0.73	0.23	0.00	0.49		69.46	0.73	180.00	0.00	145.00	10.000	**D15**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*6.32*	*5.98*	*5.39*	*4.95*	*4.33*	*3.60*
D16	0.54	0.21	0.33	0.00		39.23	0.57	125.00	0.00	150.00	10.000	**D16**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*3.64*	*3.44*	*3.10*	*2.85*	*2.49*	*2.07*
D17	0.77	0.27	0.00	0.49		71.05	0.74	180.00	0.00	150.00	10.000	**D17**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*6.72*	*6.36*	*5.73*	*5.27*	*4.61*	*3.83*
D18	0.50	0.19	0.00	0.32		71.67	0.74	115.00	0.00	140.00	10.000	**D18**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*4.42*	*4.18*	*3.76*	*3.46*	*3.03*	*2.52*
D19	0.62	0.22	0.00	0.40		70.98	0.74	0.00	0.00	285.00	10.000	**D19**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*5.42*	*5.13*	*4.62*	*4.25*	*3.71*	*3.09*
D20	0.42	0.10	0.00	0.31		66.19	0.71	105.00	0.00	115.00	10.000	**D20**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*3.54*	*3.35*	*3.02*	*2.78*	*2.43*	*2.02*
D21	0.57	0.13	0.00	0.44		65.51	0.71	175.00	0.00	110.00	10.000	**D21**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*4.83*	*4.57*	*4.11*	*3.78*	*3.31*	*2.75*
D22	0.39	0.10	0.00	0.29		66.21	0.71	100.00	0.00	105.00	10.000	**D22**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*3.29*	*3.11*	*2.80*	*2.58*	*2.25*	*1.87*
D23	1.12	0.32	0.00	0.80		67.85	0.72	120.00	0.00	145.00	10.000	**D23**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*9.55*	*9.04*	*8.14*	*7.49*	*6.54*	*5.44*
D24	0.89	0.22	0.00	0.66		66.23	0.71	95.00	0.00	145.00	10.000	**D24**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*7.48*	*7.08*	*6.38*	*5.87*	*5.13*	*4.26*
D25	0.82	0.28	0.00	0.53		70.60	0.74	110.00	0.00	120.00	10.000	**D25**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*7.14*	*6.75*	*6.08*	*5.59*	*4.89*	*4.07*
D26	0.76	0.19	0.00	0.57		66.26	0.71	95.00	0.00	120.00	10.000	**D26**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*6.39*	*6.04*	*5.44*	*5.01*	*4.38*	*3.64*
D27	0.97	0.32	0.00	0.65		69.64	0.73	110.00	0.00	145.00	10.000	**D27**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*8.42*	*7.97*	*7.18*	*6.60*	*5.77*	*4.80*
D28	0.92	0.23	0.00	0.69		66.29	0.71	100.00	0.00	140.00	10.000	**D28**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*7.80*	*7.38*	*6.65*	*6.12*	*5.35*	*4.45*
D29	0.47	0.15	0.00	0.32		69.57	0.73	110.00	0.00	130.00	10.000	**D29**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*4.07*	*3.85*	*3.47*	*3.19*	*2.79*	*2.32*
D30	0.45	0.11	0.00	0.34		66.32	0.71	100.00	0.00	125.00	10.000	**D30**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*3.83*	*3.63*	*3.27*	*3.01*	*2.63*	*2.18*
D31	1.12	0.37	0.00	0.75		69.96	0.73	100.00	0.00	190.00	10.000	**D31**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*9.77*	*9.24*	*8.32*	*7.65*	*6.69*	*5.56*
D32	1.10	0.28	0.00	0.82		66.35	0.71	95.00	0.00	175.00	10.000	**D32**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*9.34*	*8.84*	*7.96*	*7.32*	*6.40*	*5.32*
D33	1.04	0.36	0.00	0.68		70.48	0.74	100.00	0.00	160.00	10.000	**D33**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*9.05*	*8.57*	*7.71*	*7.10*	*6.20*	*5.16*
D34	1.04	0.26	0.00	0.77		66.40	0.71	100.00	0.00	160.00	10.000	**D34**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*8.78*	*8.31*	*7.48*	*6.88*	*6.02*	*5.00*
D35	0.67	0.23	0.00	0.44		70.73	0.74	100.00	0.00	90.00	10.000	**D35**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*5.87*	*5.56*	*5.00*	*4.60*	*4.03*	*3.35*
D36	0.58	0.15	0.00	0.44		66.43	0.71	100.00	0.00	90.00	10.000	**D36**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*4.95*	*4.68*	*4.21*	*3.88*	*3.39*	*2.82*
D37	0.34	0.09	0.00	0.25		66.70	0.72	80.00	0.00	95.00	10.000	**D37**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*2.87*	*2.71*	*2.44*	*2.25*	*1.97*	*1.63*
D38	0.47	0.10	0.00	0.37		64.68	0.70	95.00	0.00	90.00	10.000	**D38**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*3.89*	*3.68*	*3.31*	*3.05*	*2.66*	*2.21*
TOTAL	**28.99**	**8.41**	**4.76**	**15.81**		**59.03**	**0.67**																				
PROPOSED CONDITIONS:																											
OUTFALL 1 (WHITE OAK BAYOU [E100-00-00])																											
EX-1	0.28	0.07	0.05	0.15		56.30	0.66	65.00	0.00	195.00	10.000	**EX-1**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*2.16*	*2.05*	*1.84*	*1.70*	*1.48*	*1.23*
A-1	1.34	1.30	0.04	0.00		97.38	0.89	0.00	0.00	248.00	10.000	**A-1**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*14.05*	*13.29*	*11.97*	*11.01*	*9.63*	*8.00*
A-2	1.65	0.42	0.17	1.06		60.58	0.68	0.00	0.00	328.00	10.000	**A-2**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*13.36*	*12.64*	*11.38*	*10.47*	*9.15*	*7.61*
A-3	1.18	0.35	0.28	0.54		55.16	0.65	0.00	0.00	400.00	10.000	**A-3**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*9.10*	*8.61*	*7.76*	*7.14*	*6.24*	*5.19*
A-4	0.46	0.26	0.20	0.00		56.97	0.66	0.00	0.00	175.00	10.000	**A-4**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*3.61*	*3.41*	*3.07*	*2.83*	*2.47*	*2.06*
A-5	0.81	0.39	0.42	0.00		48.39	0.62	0.00	0.00	245.00	10.000	**A-5**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*5.95*	*5.63*	*5.07*	*4.67*	*4.08*	*3.39*
A-6	0.38	0.38	0.00	0.00		100.00	0.90	0.00	0.00	243.00	10.000	**A-6**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*4.03*	*3.82*	*3.44*	*3.16*	*2.76*	*2.30*
A-7	0.38	0.38	0.00	0.00		100.00	0.90	0.00	0.00	267.00	10.000	**A-7**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*4.03*	*3.82*	*3.44*	*3.16*	*2.76*	*2.30*
A-8	0.85	0.40	0.45	0.00		47.00	0.61	0.00	0.00	468.00	10.000	**A-8**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*6.11*	*5.78*	*5.20*	*4.79*	*4.19*	*3.48*
A-9	0.40	0.40	0.00	0.00		100.00	0.90	0.00	0.00	270.00	10.000	**A-9**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*4.25*	*4.02*	*3.62*	*3.33*	*2.91*	*2.42*
A-10	1.65	0.94	0.72	0.00		56.62	0.66	0.00	0.00	426.00	10.000	**A-10**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*12.98*	*12.28*	*11.06*	*10.18*	*8.90*	*7.40*
A-11	0.62	0.62	0.00	0.00		100.00	0.90	0.00	0.00	216.00	10.000	**A-11**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*6.58*	*6.23*	*5.61*	*5.16*	*4.51*	*3.75*
A-12	0.66	0.66	0.00	0.00		100.00	0.90	0.00	0.00	220.00	10.000	**A-12**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*7.03*	*6.65*	*5.99*	*5.51*	*4.81*	*4.00*
A-13	1.14	0.61	0.53	0.00		53.79	0.65	0.00	0.00	440.00	10.000	**A-13**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*8.75*	*8.28*	*7.46*	*6.86*	*6.00*	*4.99*
A-14	0.68	0.68	0.00	0.00		100.00	0.90	0.00	0.00	220.00	10.000	**A-14**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*7.23*	*6.84*	*6.16*	*5.67*	*4.96*	*4.12*
A-15	0.68	0.68	0.00	0.00		100.00	0.90	0.00	0.00	220.00	10.000	**A-15**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*7.23*	*6.84*	*6.16*	*5.67*	*4.96*	*4.12*
A-16	0.68	0.68	0.00	0.00		100.00	0.90	0.00	0.00	220.00	10.000	**A-16**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*7.27*	*6.87*	*6.19*	*5.70*	*4.98*	*4.14*
A-17	2.39	1.78	0.61	0.00		74.49	0.76	0.00	0.00	635.00	10.000	**A-17**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*21.54*	*20.38*	*18.35*	*16.88*	*14.76*	*12.27*
A-18	0.93	0.63	0.30	0.00		67.93	0.72	0.00	0.00	386.00	10.000	**A-18**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*7.99*	*7.56*	*6.81*	*6.27*	*5.48*	*4.55*
A-19	0.80	0.52	0.28	0.00		65.52	0.71	0.00	0.00	320.00	10.000	**A-19**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*6.74*	*6.37*	*5.74*	*5.28*	*4.62*	*3.84*
A-20	1.04	0.69	0.34	0.00		66.83	0.72	0.00	0.00	420.00	10.000	**A-20**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*8.85*	*8.37*	*7.54*	*6.93*	*6.06*	*5.04*
A-21	1.60	1.33	0.28	0.00		82.81	0.81	0.00	0.00	720.00	10.000	**A-21**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*15.31*	*14.49*	*13.05*	*12.00*	*10.49*	*8.72*
A-22	2.69	1.99	0.70	0.00		73.97	0.76	0.00	0.00	600.00	10.000	**A-22**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*24.14*	*22.84*	*20.56*	*18.92*	*16.54*	*13.75*

US 290 / Hempstead Corridor Phase II - Drainage Impact & Mitigation Analysis
Small Watershed Method Hydrologic Calculations

1	2	3	4	5	6	7	8	9	10	11	12	13	18	19	20	25	26	27	28	29	30	31	32	33	34	35	36
																RAINFALL INTENSITY IN/HR						RUNOFF IN CFS					
COMP POINT NAME	TOTAL DRAINAGE AREA (AC)	PAVED AREA (AC)	GRASSED AREA (AC)	RESD/COMM DEV. (AC)	INDUSTRIAL DEV. (AC)	INC. % IMPERV.	WGH'T RUNOFF COEFF C	OVERLAND LENGTH (FT)	STRM. SWR LENGTH (FT)	CHAN. LENGTH (FT)	TIME OF CONCEN. TC	COMP POINT NAME	OVERLAND VELOCITY (FPS)	STRM. SWR VELOCITY (FT)	CHAN. VELOCITY (FT)	100-YR i IN/HR	50-YR i IN/HR	25-YR i IN/HR	10-YR i IN/HR	5-YR i IN/HR	2-YR i IN/HR	100-YR Q CFS	50-YR Q CFS	25-YR Q CFS	10-YR Q CFS	5-YR Q CFS	2-YR Q CFS
A-23	1.49	1.13	0.36	0.00		75.95	0.77	0.00	0.00	637.00	10.000	**A-23**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*13.56*	*12.83*	*11.55*	*10.63*	*9.29*	*7.73*
A-24	0.72	0.72	0.00	0.00		100.00	0.90	0.00	0.00	281.00	10.000	**A-24**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*7.71*	*7.30*	*6.57*	*6.05*	*5.29*	*4.40*
A-25	0.52	0.47	0.05	0.00		90.87	0.85	0.00	0.00	225.00	10.000	**A-25**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*5.26*	*4.98*	*4.48*	*4.12*	*3.61*	*3.00*
A-26	0.54	0.48	0.06	0.00		88.36	0.84	0.00	0.00	225.00	10.000	**A-26**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*5.38*	*5.09*	*4.58*	*4.22*	*3.69*	*3.07*
A-27	1.43	1.06	0.38	0.00		73.67	0.76	0.00	0.00	645.00	10.000	**A-27**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*12.84*	*12.15*	*10.94*	*10.06*	*8.80*	*7.32*
A-28	0.36	0.14	0.22	0.00		39.54	0.57	0.00	0.00	415.00	10.000	**A-28**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*2.40*	*2.27*	*2.04*	*1.88*	*1.64*	*1.36*
A-29	0.73	0.52	0.21	0.00		71.21	0.74	0.00	0.00	330.00	10.000	**A-29**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*6.39*	*6.05*	*5.45*	*5.01*	*4.38*	*3.64*
A-30	2.35	2.01	0.34	0.00		85.57	0.82	0.00	0.00	900.00	10.000	**A-30**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*22.85*	*21.62*	*19.47*	*17.91*	*15.66*	*13.02*
A-31	0.91	0.49	0.42	0.00		54.06	0.65	0.00	0.00	332.00	10.000	**A-31**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*7.01*	*6.63*	*5.97*	*5.49*	*4.80*	*3.99*
A-32	0.12	0.12	0.00	0.00		100.00	0.90	0.00	0.00	204.00	10.000	**A-32**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*1.25*	*1.18*	*1.07*	*0.98*	*0.86*	*0.71*
A-33	0.81	0.81	0.00	0.00		100.00	0.90	0.00	0.00	392.00	10.000	**A-33**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*8.61*	*8.15*	*7.34*	*6.75*	*5.90*	*4.91*
A-34	0.92	0.24	0.68	0.00		26.04	0.49	0.00	0.00	296.00	10.000	**A-34**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*5.41*	*5.12*	*4.61*	*4.24*	*3.71*	*3.08*
A-35	3.28	0.64	2.64	0.00		19.56	0.46	0.00	0.00	496.00	10.000	**A-35**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*17.80*	*16.84*	*15.17*	*13.95*	*12.20*	*10.14*
A-36	0.63	0.63	0.00	0.00		100.00	0.90	0.00	0.00	352.00	10.000	**A-36**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*6.68*	*6.32*	*5.69*	*5.24*	*4.58*	*3.81*
A-37	0.61	0.61	0.00	0.00		100.00	0.90	0.00	0.00	358.00	10.000	**A-37**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*6.51*	*6.16*	*5.54*	*5.10*	*4.46*	*3.71*
A-38	0.38	0.38	0.00	0.00		100.00	0.90	0.00	0.00	250.00	10.000	**A-38**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*4.03*	*3.81*	*3.43*	*3.16*	*2.76*	*2.29*
A-39	0.38	0.38	0.00	0.00		100.00	0.90	0.00	0.00	252.00	10.000	**A-39**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*4.03*	*3.82*	*3.44*	*3.16*	*2.76*	*2.30*
A-40	0.38	0.38	0.00	0.00		100.00	0.90	0.00	0.00	253.00	10.000	**A-40**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*4.03*	*3.82*	*3.44*	*3.16*	*2.76*	*2.30*
A-41	0.72	0.40	0.32	0.00		55.56	0.66	0.00	0.00	445.00	10.000	**A-41**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*5.57*	*5.27*	*4.74*	*4.36*	*3.81*	*3.17*
A-42	0.40	0.40	0.00	0.00		100.00	0.90	0.00	0.00	265.00	10.000	**A-42**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*4.24*	*4.01*	*3.61*	*3.33*	*2.91*	*2.42*
A-43	0.95	0.60	0.36	0.00		62.60	0.69	0.00	0.00	504.00	10.000	**A-43**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*7.84*	*7.42*	*6.68*	*6.15*	*5.37*	*4.47*
A-44	1.54	1.18	0.36	0.00		76.62	0.77	0.00	0.00	350.00	10.000	**A-44**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*14.14*	*13.38*	*12.05*	*11.08*	*9.69*	*8.06*
A-45	0.42	0.41	0.02	0.00		96.07	0.88	0.00	0.00	505.00	10.000	**A-45**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*4.43*	*4.19*	*3.77*	*3.47*	*3.03*	*2.52*
A-46	0.53	0.53	0.00	0.00		100.00	0.90	0.00	0.00	417.00	10.000	**A-46**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*5.69*	*5.39*	*4.85*	*4.46*	*3.90*	*3.24*
A-47	0.44	0.44	0.00	0.00		100.00	0.90	0.00	0.00	313.00	10.000	**A-47**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*4.70*	*4.45*	*4.00*	*3.68*	*3.22*	*2.68*
A-48	0.51	0.50	0.01	0.00		97.15	0.88	0.00	0.00	416.00	10.000	**A-48**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*5.37*	*5.08*	*4.58*	*4.21*	*3.68*	*3.06*
A-49	0.95	0.77	0.18	0.00		81.22	0.80	0.00	0.00	506.00	10.000	**A-49**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*8.96*	*8.48*	*7.63*	*7.02*	*6.14*	*5.11*
A-50	1.87	1.37	0.50	0.00		73.09	0.75	0.00	0.00	472.00	10.000	**A-50**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*16.72*	*15.82*	*14.25*	*13.11*	*11.46*	*9.53*
A-51	0.96	0.78	0.18	0.00		81.07	0.80	0.00	0.00	506.00	10.000	**A-51**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*9.03*	*8.55*	*7.70*	*7.08*	*6.19*	*5.15*
A-52	0.42	0.42	0.00	0.00		100.00	0.90	0.00	0.00	406.00	10.000	**A-52**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*4.46*	*4.22*	*3.80*	*3.50*	*3.06*	*2.54*
A-53	0.42	0.42	0.00	0.00		100.00	0.90	0.00	0.00	415.00	10.000	**A-53**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*4.46*	*4.22*	*3.80*	*3.50*	*3.06*	*2.54*
A-54	0.48	0.48	0.00	0.00		100.00	0.90	0.00	0.00	509.00	10.000	**A-54**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*5.10*	*4.83*	*4.35*	*4.00*	*3.50*	*2.91*
A-55	0.54	0.54	0.00	0.00		100.00	0.90	0.00	0.00	617.00	10.000	**A-55**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*5.74*	*5.43*	*4.89*	*4.50*	*3.93*	*3.27*
A-56	2.61	2.02	0.59	0.00		77.50	0.78	0.00	0.00	755.00	10.000	**A-56**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*24.02*	*22.73*	*20.47*	*18.83*	*16.46*	*13.69*
A-57	1.83	1.39	0.44	0.00		75.92	0.77	0.00	0.00	484.00	10.000	**A-57**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*16.69*	*15.80*	*14.22*	*13.09*	*11.44*	*9.51*
A-58	2.47	1.91	0.55	0.00		77.57	0.78	0.00	0.00	598.00	10.000	**A-58**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*22.73*	*21.51*	*19.37*	*17.82*	*15.58*	*12.95*
A-59	0.59	0.53	0.06	0.00		90.63	0.85	0.00	0.00	255.00	10.000	**A-59**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*5.94*	*5.62*	*5.06*	*4.66*	*4.07*	*3.39*
A-60	0.45	0.30	0.15	0.00		67.30	0.72	0.00	0.00	385.00	10.000	**A-60**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*3.86*	*3.65*	*3.29*	*3.03*	*2.64*	*2.20*
A-61	0.69	0.52	0.17	0.00		75.69	0.77	0.00	0.00	305.00	10.000	**A-61**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*6.26*	*5.93*	*5.34*	*4.91*	*4.29*	*3.57*
A-62	0.76	0.43	0.32	0.00		57.27	0.66	0.00	0.00	484.00	10.000	**A-62**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*5.98*	*5.66*	*5.10*	*4.69*	*4.10*	*3.41*
A-63	0.72	0.05	0.67	0.00		6.64	0.39	310.00	0.00	0.00	10.333	**A-63**	0.50	3.00	1.50	*11.72*	*11.08*	*9.98*	*9.18*	*8.02*	*6.67*	*3.27*	*3.09*	*2.79*	*2.56*	*2.24*	*1.86*
EX-15	1.23	1.23	0.00	0.00		100.00	0.90	0.00	0.00	530.00	10.000	**EX-15**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*13.19*	*12.48*	*11.23*	*10.34*	*9.03*	*7.51*
EX-16	0.96	0.96	0.00	0.00		100.00	0.90	0.00	0.00	555.00	10.000	**EX-16**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*10.26*	*9.71*	*8.74*	*8.04*	*7.03*	*5.84*
EX-17	1.93	1.93	0.00	0.00		100.00	0.90	0.00	0.00	1087.00	12.078	**EX-17**	0.50	3.00	1.50	*10.99*	*10.36*	*9.33*	*8.56*	*7.49*	*6.20*	*19.05*	*17.97*	*16.19*	*14.85*	*12.98*	*10.74*
E-1	18.12	18.12	0.00	0.00		100.00	0.90	240.00	4700.00	0.00	34.111	**E-1**	0.50	3.00	1.50	*6.50*	*6.01*	*5.43*	*4.87*	*4.27*	*3.42*	*105.99*	*97.96*	*88.51*	*79.43*	*69.68*	*55.74*
E-2	16.08	16.08	0.00	0.00		100.00	0.90	240.00	3550.00	0.00	27.722	**E-2**	0.50	3.00	1.50	*7.30*	*6.78*	*6.12*	*5.52*	*4.84*	*3.90*	*105.71*	*98.12*	*88.60*	*79.89*	*70.03*	*56.46*
E100-Pond	8.46	8.46	0.00	0.00		100.00	0.90	730.00	0.00	0.00	24.333	**E100-Pond**	0.50	3.00	1.50	*7.84*	*7.29*	*6.58*	*5.95*	*5.22*	*4.23*	*59.67*	*55.54*	*50.12*	*45.33*	*39.72*	*32.17*
TOTAL	**107.83**	**90.49**	**15.58**	**1.75**		**84.82**	**0.82**																				
TxDOT TOTAL	**73.63**	**56.29**	**15.58**	**1.75**		**77.77**	**0.78**																				
OUTFALL 2 (WHITE OAK BAYOU TRIB. [E131-00-00])																											
B-1	0.35	0.19	0.16	0.00		54.15	0.65	0.00	0.00	332.00	10.000	**B-1**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*2.66*	*2.52*	*2.27*	*2.09*	*1.82*	*1.52*
B-2	0.52	0.43	0.09	0.00		82.70	0.80	0.00	0.00	284.00	10.000	**B-2**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*4.93*	*4.67*	*4.20*	*3.87*	*3.38*	*2.81*
B-3	4.38	0.27	4.10	0.00		6.27	0.38	48.00	0.00	758.00	10.022	**B-3**	0.50	3.00	1.50	*11.86*	*11.22*	*10.11*	*9.30*	*8.13*	*6.76*	*19.95*	*18.88*	*17.00*	*15.64*	*13.67*	*11.37*
B-4	2.77	0.85	0.54	1.38		58.17	0.67	169.00	0.00	264.00	10.000	**B-4**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*22.03*	*20.84*	*18.77*	*17.27*	*15.09*	*12.55*
B-5	0.42	0.42	0.00	0.00		100.00	0.90	0.00	0.00	275.00	10.000	**B-5**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*4.46*	*4.22*	*3.80*	*3.49*	*3.05*	*2.54*
B-6	0.61	0.61	0.00	0.00		100.00	0.90	0.00	0.00	376.00	10.000	**B-6**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*6.57*	*6.22*	*5.60*	*5.15*	*4.50*	*3.74*
B-7	0.36	0.36	0.00	0.00		100.00	0.90	0.00	0.00	269.00	10.000	**B-7**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*3.84*	*3.63*	*3.27*	*3.01*	*2.63*	*2.19*
B-8	0.34	0.34	0.00	0.00		100.00	0.90	0.00	0.00	259.00	10.000	**B-8**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*3.65*	*3.46*	*3.11*	*2.86*	*2.50*	*2.08*
B-9	0.72	0.34	0.38	0.00		47.29	0.61	0.00	0.00	475.00	10.000	**B-9**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*5.24*	*4.96*	*4.47*	*4.11*	*3.59*	*2.99*
B-10	2.02	1.56	0.45	0.00		77.50	0.78	0.00	0.00	550.00	10.000	**B-10**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*18.59*	*17.59*	*15.83*	*14.57*	*12.74*	*10.59*
B-11	0.44	0.22	0.22	0.00		50.08	0.63	0.00	0.00	279.00	10.000	**B-11**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*3.23*	*3.06*	*2.75*	*2.53*	*2.21*	*1.84*
B-12	0.72	0.72	0.00	0.00		100.00	0.90	0.00	0.00	291.00	10.000	**B-12**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*7.74*	*7.32*	*6.59*	*6.06*	*5.30*	*4.41*
B-13	1.31	1.31	0.00	0.00		100.00	0.90	0.00	0.00	704.00	10.000	**B-13**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*14.00*	*13.24*	*11.93*	*10.97*	*9.59*	*7.98*
B-14	2.27	2.27	0.00	0.00		100.00	0.90	0.00	0.00	963.00	10.700	**B-14**	0.50	3.00	1.50	*11.55*	*10.92*	*9.83*	*9.04*	*7.90*	*6.56*	*23.55*	*22.26*	*20.05*	*18.42*	*16.11*	*13.37*
B-15	1.55	1.55	0.00	0.00		100.00	0.90	0.00	0.00	892.00	10.000	**B-15**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*16.56*	*15.67*	*14.11*	*12.98*	*11.35*	*9.44*
B-16	0.18	0.18	0.00	0.00		100.00	0.90	0.00	0.00	163.00	10.000	**B-16**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*1.92*	*1.82*	*1.64*	*1.51*	*1.32*	*1.10*
B-17	0.20	0.20	0.00	0.00		100.00	0.90	0.00	0.00	175.00	10.000	**B-17**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*2.13*	*2.01*	*1.81*	*1.67*	*1.46*	*1.21*
B-18	0.19	0.19	0.00	0.00		100.00	0.90	0.00	0.00	172.00	10.000	**B-18**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*2.01*	*1.90*	*1.71*	*1.57*	*1.38*	*1.14*
B-19	0.18	0.17	0.01	0.00		93.41	0.86	0.00	0.00	169.00	10.000	**B-19**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*1.87*	*1.77*	*1.59*	*1.46*	*1.28*	*1.06*
B-20	0.32	0.22	0.10	0.00		68.60	0.73	0.00	0.00	167.00	10.000	**B-20**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*2.77*	*2.62*	*2.36*	*2.17*	*1.90*	*1.58*
B-21	0.30	0.17	0.12	0.00		58.71	0.67	0.00	0.00	223.00	10.000	**B-21**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*2.37*	*2.24*	*2.02*	*1.85*	*1.62*	*1.35*
B-22	0.24	0.17	0.07	0.00		70.42	0.74	0.00	0.00	194.00	10.000	**B-22**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*2.14*	*2.02*	*1.82*	*1.68*	*1.47*	*1.22*
B-23	0.24	0.14	0.10	0.00		57.14	0.66	0.00	0.00	163.00	10.000	**B-23**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*1.89*	*1.79*	*1.61*	*1.48*	*1.29*	*1.08*
B-24	0.52	0.31	0.22	0.00		58.52	0.67	0.00	0.00	150.00	10.000	**B-24**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*4.17*	*3.95*	*3.56*	*3.27*	*2.86*	*2.38*
B-25	0.23	0.16	0.08	0.00		67.18	0.72	0.00	0.00	165.00	10.000	**B-25**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*2.00*	*1.89*	*1.71*	*1.57*	*1.37*	*1.14*
B-26	0.73	0.29	0.44	0.00		39.77	0.57	0.00	0.00	744.00	10.000	**B-26**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*4.96*	*4.69*	*4.22*	*3.88*	*3.40*	*2.82*
B-27	0.50	0.36	0.14	0.00		71.34	0.74	0.00	0.00	218.00	10.000	**B-27**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*4.43*	*4.19*	*3.78*	*3.47*	*3.04*	*2.52*
B-28	0.22	0.16	0.06	0.00		71.45	0.74	0.00	0.00	165.00	10.000	**B-28**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*1.95*	*1.85*	*1.66*	*1.53*	*1.34*	*1.11*

US 290 / Hempstead Corridor Phase II - Drainage Impact & Mitigation Analysis

Small Watershed Method Hydrologic Calculations

1	2	3	4	5	6	7	8	9	10	11	12	13	18	19	20	25	26	27	28	29	30	31	32	33	34	35	36
																RAINFALL INTENSITY IN/HR						RUNOFF IN CFS					
COMP POINT NAME	TOTAL DRAINAGE AREA (AC)	PAVED AREA (AC)	GRASSED AREA (AC)	RESD/COMM DEV. (AC)	INDUSTRIAL DEV. (AC)	INC. % IMPERV.	WGH'T RUNOFF COEFF C	OVERLAND LENGTH (FT)	STRM. SWR LENGTH (FT)	CHAN. LENGTH (FT)	TIME OF CONCEN. TC	COMP POINT NAME	OVERLAND VELOCITY (FPS)	STRM. SWR VELOCITY (FT)	CHAN. VELOCITY (FT)	100-YR i IN/HR	50-YR i IN/HR	25-YR i IN/HR	10-YR i IN/HR	5-YR i IN/HR	2-YR i IN/HR	100-YR Q CFS	50-YR Q CFS	25-YR Q CFS	10-YR Q CFS	5-YR Q CFS	2-YR Q CFS
B-29	0.56	0.40	0.16	0.00		71.56	0.74	0.00	0.00	238.00	10.000	**B-29**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*4.98*	*4.71*	*4.24*	*3.90*	*3.41*	*2.84*
B-30	1.53	0.48	1.05	0.00		31.35	0.52	260.00	0.00	58.00	10.000	**B-30**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*9.52*	*9.00*	*8.11*	*7.46*	*6.52*	*5.42*
B-31	1.31	0.00	1.31	0.00		0.00	0.35	0.00	0.00	586.00	10.000	**B-31**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*5.45*	*5.16*	*4.64*	*4.27*	*3.74*	*3.11*
B-32	1.45	0.45	1.00	0.00		31.04	0.52	0.00	0.00	415.00	10.000	**B-32**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*8.94*	*8.46*	*7.62*	*7.01*	*6.13*	*5.10*
B-33	0.53	0.23	0.30	0.00		43.67	0.59	0.00	0.00	400.00	10.000	**B-33**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*3.72*	*3.52*	*3.17*	*2.92*	*2.55*	*2.12*
B-34	0.78	0.78	0.00	0.00		100.00	0.90	0.00	0.00	515.00	10.000	**B-34**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*8.32*	*7.88*	*7.09*	*6.52*	*5.70*	*4.74*
B-35	2.36	2.36	0.00	0.00		100.00	0.90	0.00	0.00	1317.00	14.633	**B-35**	0.50	3.00	1.50	*10.09*	*9.48*	*8.55*	*7.81*	*6.83*	*5.63*	*21.46*	*20.17*	*18.18*	*16.61*	*14.54*	*11.97*
B-36	2.86	0.73	2.13	0.00		25.42	0.49	227.00	0.00	264.00	10.500	**B-36**	0.50	3.00	1.50	*11.64*	*11.01*	*9.91*	*9.11*	*7.97*	*6.62*	*16.30*	*15.41*	*13.87*	*12.76*	*11.15*	*9.26*
B-37	4.57	0.70	3.87	0.00		15.37	0.43	440.00	0.00	293.00	17.922	**B-37**	0.50	3.00	1.50	*9.17*	*8.58*	*7.74*	*7.04*	*6.17*	*5.05*	*18.22*	*17.06*	*15.38*	*14.00*	*12.26*	*10.03*
B-38	4.04	0.24	3.80	0.00		5.91	0.38	438.00	0.00	390.00	18.933	**B-38**	0.50	3.00	1.50	*8.92*	*8.34*	*7.52*	*6.84*	*5.99*	*4.89*	*13.80*	*12.91*	*11.64*	*10.58*	*9.27*	*7.57*
B-39	3.79	0.30	3.49	0.00		7.92	0.39	409.00	0.00	335.00	17.356	**B-39**	0.50	3.00	1.50	*9.31*	*8.72*	*7.86*	*7.16*	*6.27*	*5.14*	*13.90*	*13.02*	*11.74*	*10.69*	*9.36*	*7.67*
B-40	1.80	0.29	1.50	0.00		16.34	0.44	220.00	0.00	295.00	10.611	**B-40**	0.50	3.00	1.50	*11.59*	*10.96*	*9.87*	*9.07*	*7.93*	*6.59*	*9.16*	*8.66*	*7.80*	*7.17*	*6.27*	*5.21*
B-41	2.82	0.35	2.47	0.00		12.48	0.42	223.00	0.00	398.00	11.856	**B-41**	0.50	3.00	1.50	*11.07*	*10.45*	*9.41*	*8.63*	*7.55*	*6.25*	*13.08*	*12.34*	*11.12*	*10.20*	*8.92*	*7.39*
B-42	4.76	0.44	4.32	0.00		9.21	0.40	419.00	0.00	293.00	17.222	**B-42**	0.50	3.00	1.50	*9.35*	*8.76*	*7.90*	*7.19*	*6.30*	*5.16*	*17.81*	*16.68*	*15.04*	*13.70*	*11.99*	*9.83*
B-43	2.59	2.07	0.53	0.00		79.70	0.79	0.00	0.00	925.00	10.278	**B-43**	0.50	3.00	1.50	*11.74*	*11.11*	*10.00*	*9.20*	*8.04*	*6.68*	*23.99*	*22.69*	*20.43*	*18.79*	*16.43*	*13.65*
B-44	2.73	0.22	2.51	0.00		7.99	0.39	417.00	0.00	236.00	16.522	**B-44**	0.50	3.00	1.50	*9.53*	*8.94*	*8.06*	*7.35*	*6.43*	*5.28*	*10.25*	*9.61*	*8.66*	*7.90*	*6.91*	*5.67*
B-45	2.95	0.33	2.63	0.00		11.12	0.41	508.00	0.00	186.00	19.000	**B-45**	0.50	3.00	1.50	*8.91*	*8.33*	*7.51*	*6.83*	*5.98*	*4.88*	*10.81*	*10.11*	*9.12*	*8.29*	*7.26*	*5.93*
B-46	1.55	1.24	0.31	0.00		80.22	0.79	0.00	0.00	470.00	10.000	**B-46**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*14.56*	*13.78*	*12.40*	*11.41*	*9.98*	*8.30*
B-47	5.93	0.23	5.70	0.00		3.87	0.37	826.00	0.00	290.00	30.756	**B-47**	0.50	3.00	1.50	*6.89*	*6.39*	*5.77*	*5.19*	*4.55*	*3.65*	*15.18*	*14.06*	*12.70*	*11.43*	*10.02*	*8.05*
B-48	0.32	0.32	0.00	0.00		100.00	0.90	0.00	0.00	230.00	10.000	**B-48**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*3.44*	*3.26*	*2.93*	*2.70*	*2.36*	*1.96*
B-49	0.59	0.59	0.00	0.00		100.00	0.90	0.00	0.00	369.00	10.000	**B-49**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*6.30*	*5.96*	*5.37*	*4.94*	*4.32*	*3.59*
B-50	0.59	0.59	0.00	0.00		100.00	0.90	0.00	0.00	369.00	10.000	**B-50**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*6.27*	*5.93*	*5.34*	*4.92*	*4.30*	*3.57*
B-51	0.59	0.59	0.00	0.00		100.00	0.90	0.00	0.00	369.00	10.000	**B-51**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*6.25*	*5.91*	*5.33*	*4.90*	*4.28*	*3.56*
B-52	0.60	0.60	0.00	0.00		100.00	0.90	0.00	0.00	369.00	10.000	**B-52**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*6.43*	*6.09*	*5.48*	*5.04*	*4.41*	*3.66*
B-53	0.44	0.44	0.00	0.00		100.00	0.90	0.00	0.00	302.00	10.000	**B-53**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*4.68*	*4.43*	*3.99*	*3.67*	*3.21*	*2.67*
B-54	5.02	0.25	4.77	0.00		5.04	0.38	825.00	0.00	288.00	30.700	**B-54**	0.50	3.00	1.50	*6.90*	*6.39*	*5.77*	*5.19*	*4.55*	*3.66*	*13.08*	*12.12*	*10.94*	*9.84*	*8.63*	*6.93*
B-55	11.85	0.30	7.25	4.31		22.49	0.47	554.00	0.00	524.00	24.289	**B-55**	0.50	3.00	1.50	*7.85*	*7.30*	*6.59*	*5.96*	*5.22*	*4.23*	*43.97*	*40.92*	*36.93*	*33.40*	*29.27*	*23.71*
B-56	1.81	0.08	0.16	1.57		52.35	0.64	215.00	0.00	380.00	11.389	**B-56**	0.50	3.00	1.50	*11.26*	*10.63*	*9.58*	*8.79*	*7.69*	*6.37*	*12.97*	*12.25*	*11.03*	*10.13*	*8.85*	*7.34*
B-57	1.55	0.57	0.22	0.75		63.76	0.70	0.00	0.00	312.00	10.000	**B-57**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*12.86*	*12.17*	*10.96*	*10.08*	*8.81*	*7.33*
B-58	0.47	0.36	0.00	0.11		89.15	0.84	0.00	0.00	235.00	10.000	**B-58**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*4.67*	*4.42*	*3.98*	*3.66*	*3.20*	*2.66*
B-59	0.46	0.15	0.00	0.31		70.10	0.73	0.00	0.00	207.00	10.000	**B-59**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*4.01*	*3.80*	*3.42*	*3.15*	*2.75*	*2.29*
B-60	2.10	0.49	0.00	1.61		65.58	0.71	0.00	0.00	365.00	10.000	**B-60**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*17.68*	*16.73*	*15.06*	*13.86*	*12.12*	*10.07*
B-61	0.70	0.15	0.00	0.55		64.74	0.70	0.00	0.00	273.00	10.000	**B-61**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*5.87*	*5.55*	*5.00*	*4.60*	*4.02*	*3.34*
B-62	1.59	0.50	0.00	1.09		69.16	0.73	0.00	0.00	468.00	10.000	**B-62**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*13.78*	*13.04*	*11.74*	*10.80*	*9.44*	*7.85*
B-63	1.94	0.30	0.00	1.64		61.90	0.69	0.00	0.00	536.00	10.000	**B-63**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*15.82*	*14.97*	*13.48*	*12.40*	*10.84*	*9.01*
B-64	3.43	0.57	0.00	2.87		62.42	0.69	0.00	0.00	548.00	10.000	**B-64**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*28.16*	*26.65*	*24.00*	*22.08*	*19.30*	*16.05*
B-65	0.92	0.45	0.00	0.47		77.01	0.77	0.00	0.00	280.00	10.000	**B-65**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*8.42*	*7.97*	*7.17*	*6.60*	*5.77*	*4.80*
C-1	1.43	0.63	0.81	0.00		43.64	0.59	320.00	0.00	200.00	12.889	**C-1**	0.50	3.00	1.50	*10.68*	*10.06*	*9.07*	*8.30*	*7.26*	*6.00*	*9.03*	*8.51*	*7.66*	*7.02*	*6.14*	*5.07*
C-2	1.15	0.63	0.00	0.51		79.78	0.79	0.00	0.00	480.00	10.000	**C-2**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*10.72*	*10.14*	*9.13*	*8.40*	*7.34*	*6.11*
E-3	6.77	6.77	0.00	0.00		100.00	0.90	240.00	1200.00	0.00	14.667	**E-3**	0.50	3.00	1.50	*10.08*	*9.47*	*8.54*	*7.80*	*6.83*	*5.62*	*61.39*	*57.69*	*51.99*	*47.51*	*41.57*	*34.22*
E-4	8.45	8.45	0.00	0.00		100.00	0.90	240.00	1800.00	0.00	18.000	**E-4**	0.50	3.00	1.50	*9.15*	*8.56*	*7.72*	*7.03*	*6.15*	*5.03*	*69.54*	*65.10*	*58.71*	*53.43*	*46.78*	*38.27*
E131-Pond	11.76	11.76	0.00	0.00		100.00	0.90	1430.00	0.00	0.00	47.667	**E131-Pond**	0.50	3.00	1.50	*5.34*	*4.90*	*4.43*	*3.94*	*3.46*	*2.73*	*56.47*	*51.83*	*46.88*	*41.73*	*36.65*	*28.93*
TOTAL	**136.28**	**61.54**	**57.58**	**17.17**		**52.08**	**0.64**																				
TxDOT TOTAL	**121.07**	**46.33**	**57.58**	**17.17**		**46.06**	**0.60**																				
OUTFALL 3 (SH6)																											
D-1	3.92	0.26	3.66	0.00		6.64	0.39	395.00	0.00	765.00	21.667	**D-1**	0.50	3.00	1.50	*8.33*	*7.77*	*7.01*	*6.36*	*5.57*	*4.53*	*12.61*	*11.76*	*10.61*	*9.62*	*8.43*	*6.85*
D-2	0.64	0.46	0.19	0.00		70.76	0.74	0.00	0.00	283.00	10.000	**D-2**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*5.65*	*5.35*	*4.81*	*4.43*	*3.87*	*3.22*
D-3	0.68	0.55	0.13	0.00		81.20	0.80	0.00	0.00	339.00	10.000	**D-3**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*6.43*	*6.09*	*5.48*	*5.04*	*4.41*	*3.67*
D-4	1.38	0.55	0.83	0.00		39.94	0.57	0.00	0.00	356.00	10.000	**D-4**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*9.33*	*8.82*	*7.95*	*7.31*	*6.39*	*5.31*
D-5	0.83	0.65	0.18	0.00		78.19	0.78	0.00	0.00	397.00	10.000	**D-5**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*7.72*	*7.31*	*6.58*	*6.05*	*5.29*	*4.40*
D-6	2.16	0.53	1.64	0.00		24.38	0.48	148.00	0.00	333.00	10.000	**D-6**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*12.44*	*11.77*	*10.60*	*9.75*	*8.52*	*7.09*
D-7	0.85	0.61	0.24	0.00		71.92	0.75	0.00	0.00	436.00	10.000	**D-7**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*7.55*	*7.14*	*6.43*	*5.92*	*5.17*	*4.30*
D-8	1.61	0.28	1.33	0.00		17.25	0.44	245.00	0.00	202.00	10.411	**D-8**	0.50	3.00	1.50	*11.68*	*11.05*	*9.95*	*9.15*	*8.00*	*6.64*	*8.35*	*7.90*	*7.11*	*6.54*	*5.72*	*4.75*
D-9	0.39	0.32	0.07	0.00		81.91	0.80	0.00	0.00	268.00	10.000	**D-9**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*3.69*	*3.50*	*3.15*	*2.90*	*2.53*	*2.10*
D-10	1.66	0.33	1.34	0.00		19.54	0.46	270.00	0.00	240.00	11.667	**D-10**	0.50	3.00	1.50	*11.15*	*10.52*	*9.48*	*8.70*	*7.60*	*6.30*	*8.48*	*8.00*	*7.21*	*6.62*	*5.79*	*4.79*
D-11	0.41	0.32	0.09	0.00		79.10	0.79	0.00	0.00	300.00	10.000	**D-11**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*3.81*	*3.61*	*3.25*	*2.99*	*2.61*	*2.17*
D-12	1.11	0.28	0.83	0.00		24.94	0.49	185.00	0.00	230.00	10.000	**D-12**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*6.43*	*6.08*	*5.48*	*5.04*	*4.40*	*3.66*
D-13	0.36	0.27	0.09	0.00		75.31	0.76	0.00	0.00	277.00	10.000	**D-13**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*3.25*	*3.07*	*2.77*	*2.54*	*2.22*	*1.85*
D-14	1.38	0.36	0.18	0.84		59.56	0.68	110.00	0.00	290.00	10.000	**D-14**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*11.11*	*10.51*	*9.47*	*8.71*	*7.61*	*6.33*
D-15	0.53	0.32	0.21	0.00		60.44	0.68	0.00	0.00	425.00	10.000	**D-15**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*4.30*	*4.07*	*3.66*	*3.37*	*2.95*	*2.45*
D-16	0.38	0.11	0.00	0.27		67.82	0.72	0.00	0.00	220.00	10.000	**D-16**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*3.25*	*3.07*	*2.76*	*2.54*	*2.22*	*1.85*
D-17	0.14	0.11	0.03	0.00		80.28	0.79	0.00	0.00	125.00	10.000	**D-17**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*1.33*	*1.26*	*1.14*	*1.05*	*0.91*	*0.76*
TOTAL	**18.44**	**6.31**	**11.02**	**1.11**		**37.51**	**0.56**																				
OUTFALL 4 (FM 1960)																											
C-3	2.19	0.81	1.38	0.00		36.92	0.55	250.00	0.00	490.00	13.778	**C-3**	0.50	3.00	1.50	*10.37*	*9.76*	*8.79*	*8.04*	*7.04*	*5.80*	*12.56*	*11.82*	*10.65*	*9.74*	*8.52*	*7.03*
C-4	2.19	0.84	0.17	1.17		67.96	0.72	100.00	0.00	490.00	10.000	**C-4**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*18.74*	*17.73*	*15.97*	*14.69*	*12.84*	*10.68*
C-5	1.69	0.77	0.91	0.00		45.77	0.60	75.00	0.00	495.00	10.000	**C-5**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*12.04*	*11.39*	*10.26*	*9.44*	*8.25*	*6.86*
C-6	2.37	0.80	0.22	1.35		65.09	0.71	125.00	0.00	495.00	10.000	**C-6**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*19.85*	*18.79*	*16.92*	*15.56*	*13.61*	*11.31*
C-7	0.89	0.55	0.33	0.00		62.37	0.69	75.00	0.00	260.00	10.000	**C-7**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*7.28*	*6.89*	*6.20*	*5.71*	*4.99*	*4.15*
C-8	1.21	0.51	0.15	0.55		66.92	0.72	125.00	0.00	260.00	10.000	**C-8**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*10.32*	*9.76*	*8.79*	*8.09*	*7.07*	*5.88*
C-9	0.80	0.50	0.15	0.15		73.13	0.75	70.00	0.00	220.00	10.000	**C-9**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*7.12*	*6.74*	*6.07*	*5.58*	*4.88*	*4.06*
C-10	1.20	0.52	0.15	0.54		67.56	0.72	125.00	0.00	220.00	10.000	**C-10**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*10.27*	*9.72*	*8.75*	*8.05*	*7.04*	*5.85*
C-11	1.68	0.74	0.27	0.67		66.05	0.71	75.00	0.00	490.00	10.000	**C-11**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*14.20*	*13.43*	*12.10*	*11.13*	*9.73*	*8.09*
C-12	2.19	0.75	0.26	1.18		63.87	0.70	125.00	0.00	490.00	10.000	**C-12**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*18.16*	*17.18*	*15.47*	*14.23*	*12.44*	*10.35*
C-13	1.85	0.67	0.21	0.98		65.17	0.71	75.00	0.00	550.00	10.000	**C-13**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*15.55*	*14.71*	*13.25*	*12.19*	*10.66*	*8.86*
C-14	1.95	0.65	0.20	1.10		64.29	0.70	90.00	0.00	550.00	10.000	**C-14**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*16.26*	*15.38*	*13.85*	*12.74*	*11.14*	*9.26*

US 290 / Hempstead Corridor Phase II - Drainage Impact & Mitigation Analysis

Small Watershed Method Hydrologic Calculations

1	2	3	4	5	6	7	8	9	10	11	12	13	18	19	20	25	26	27	28	29	30	31	32	33	34	35	36
COMP POINT NAME	TOTAL DRAINAGE AREA (AC)	PAVED AREA (AC)	GRASSED AREA (AC)	RESD/COMM DEV. (AC)	INDUSTRIAL DEV. (AC)	INC. % IMPERV.	WGH'T RUNOFF COEFF C	OVERLAND LENGTH (FT)	STRM. SWR LENGTH (FT)	CHAN. LENGTH (FT)	TIME OF CONCEN. TC	COMP POINT NAME	OVERLAND VELOCITY (FPS)	STRM. SWR VELOCITY (FT)	CHAN. VELOCITY (FT)	RAINFALL INTENSITY IN/HR						RUNOFF IN CFS					
																100-YR i IN/HR	50-YR i IN/HR	25-YR i IN/HR	10-YR i IN/HR	5-YR i IN/HR	2-YR i IN/HR	100-YR Q CFS	50-YR Q CFS	25-YR Q CFS	10-YR Q CFS	5-YR Q CFS	2-YR Q CFS
C-15	1.12	0.37	0.00	0.75		69.96	0.73	100.00	0.00	190.00	10.000	**C-15**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*9.77*	*9.24*	*8.32*	*7.65*	*6.69*	*5.56*
D32	1.10	0.28	0.00	0.82		66.35	0.71	95.00	0.00	175.00	10.000	**D32**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*9.34*	*8.84*	*7.96*	*7.32*	*6.40*	*5.32*
D33	1.04	0.36	0.00	0.68		70.48	0.74	100.00	0.00	160.00	10.000	**D33**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*9.05*	*8.57*	*7.71*	*7.10*	*6.20*	*5.16*
D34	1.04	0.26	0.00	0.77		66.40	0.71	100.00	0.00	160.00	10.000	**D34**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*8.78*	*8.31*	*7.48*	*6.88*	*6.02*	*5.00*
D35	0.67	0.23	0.00	0.44		70.73	0.74	100.00	0.00	90.00	10.000	**D35**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*5.87*	*5.56*	*5.00*	*4.60*	*4.03*	*3.35*
D36	0.58	0.15	0.00	0.44		66.43	0.71	100.00	0.00	90.00	10.000	**D36**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*4.95*	*4.68*	*4.21*	*3.88*	*3.39*	*2.82*
D37	0.34	0.09	0.00	0.25		66.70	0.72	80.00	0.00	95.00	10.000	**D37**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*2.87*	*2.71*	*2.44*	*2.25*	*1.97*	*1.63*
D38	0.47	0.10	0.00	0.37		64.68	0.70	95.00	0.00	90.00	10.000	**D38**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*3.89*	*3.68*	*3.31*	*3.05*	*2.66*	*2.21*
TOTAL	**26.55**	**9.94**	**4.40**	**12.20**		**62.73**	**0.69**																				

US 290 / Hempstead Corridor Phase II - Drainage Impact & Mitigation Analysis
Small Watershed Method Hydrologic Calculations

COMP POINT NAME	TOTAL DRAINAGE AREA (AC)	PAVED AREA (AC)	GRASSED AREA (AC)	RESD/COMM DEV. (AC)	INDUSTRIAL DEV. (AC)	INC. % IMPERV.	WGH'T RUNOFF COEFF C	OVERLAND LENGTH (FT)	STRM. SWR LENGTH (FT)	CHAN. LENGTH (FT)	TIME OF CONCEN. TC	COMP POINT NAME	OVERLAND VELOCITY (FPS)	STRM. SWR VELOCITY (FT)	CHAN. VELOCITY (FT)	RANFALL INTENSITY IN/HR						RUNOFF IN CFS					
																100-YR i IN/HR	50-YR i IN/HR	25-YR i IN/HR	10-YR i IN/HR	5-YR i IN/HR	2-YR i IN/HR	100-YR Q CFS	50-YR Q CFS	25-YR Q CFS	10-YR Q CFS	5-YR Q CFS	2-YR Q CFS
	IMP%>>>	100	0	55	73																						
	C>>>>	0.9	0.35	0.65	0.75																						
EXISTING CONDITIONS:																											
OUTFALL 5 (WHITE OAK BAYOU TRIB. [E112-00-00])																											
A-2	1.41	0.95	0.46	0.00	0.00	67.38	0.72	0.00	0.00	587.00	10.000	A-2	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	12.06	11.41	10.28	9.45	8.27	6.87
A-3	1.92	1.22	0.70	0.00	0.00	63.56	0.70	0.00	0.00	597.00	10.000	A-3	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	15.93	15.07	13.57	12.49	10.92	9.08
A-4	33.91	5.66	11.57	16.68	0.00	48.66	0.59	0.00	0.00	3241.00	36.011	A-4	0.50	3.00	1.50	6.30	5.82	5.26	4.71	4.13	3.30	125.92	116.25	105.05	94.15	82.61	65.94
AD-5A	5.15	1.40	3.75	0.00	0.00	27.18	0.50	137.00	0.00	620.00	11.456	AD-5A	0.50	3.00	1.50	11.23	10.61	9.55	8.77	7.67	6.35	28.90	27.28	24.57	22.56	19.72	16.35
A-5	1.43	0.81	0.62	0.00	0.00	56.64	0.66	70.00	0.00	403.00	10.000	A-5	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	11.23	10.63	9.57	8.80	7.70	6.40
A-7	4.53	1.92	2.61	0.00	0.00	42.38	0.58	56.00	0.00	1322.00	16.556	A-7	0.50	3.00	1.50	9.52	8.93	8.05	7.34	6.43	5.27	25.16	23.59	21.27	19.39	16.97	13.92
A-8	2.62	1.98	0.64	0.00	0.00	75.63	0.77	121.00	0.00	524.00	10.000	A-8	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	23.81	22.53	20.28	18.66	16.31	13.56
A-9	1.79	0.22	1.57	0.00	0.00	12.29	0.42	31.00	0.00	600.00	10.000	A-9	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	8.87	8.40	7.56	6.96	6.08	5.06
AD-2	1.99	0.74	1.25	0.00	0.00	37.28	0.56	56.00	0.00	690.00	10.000	AD-2	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	13.08	12.38	11.14	10.25	8.96	7.45
AD-3	4.11	1.27	0.56	2.29	0.00	67.00	0.69	0.00	0.00	894.00	10.000	AD-3	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	33.50	31.69	28.54	26.26	22.95	19.09
AD-4	1.48	0.31	0.25	0.92	0.00	61.35	0.65	0.00	0.00	431.00	10.000	AD-4	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	11.45	10.83	9.76	8.98	7.85	6.52
AD-5	1.55	0.29	0.37	0.89	0.00	56.21	0.63	200.00	0.00	300.00	10.000	AD-5	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	11.48	10.87	9.78	9.00	7.87	6.54
AD-6	3.07	0.98	2.10	0.00	0.00	31.76	0.52	80.00	0.00	780.00	11.333	AD-6	0.50	3.00	1.50	11.28	10.66	9.60	8.81	7.70	6.39	18.18	17.16	15.46	14.19	12.41	10.29
A-6	4.02	2.17	1.85	0.00	0.00	53.98	0.65	80.00	0.00	1140.00	15.333	A-6	0.50	3.00	1.50	9.88	9.27	8.36	7.63	6.68	5.49	25.68	24.12	21.74	19.85	17.37	14.28
A-10	2.87	2.28	0.59	0.00	0.00	79.44	0.79	86.00	0.00	580.00	10.000	A-10	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	26.81	25.37	22.84	21.02	18.37	15.28
A-12	1.38	0.48	0.90	0.00	0.00	34.71	0.54	52.00	0.00	627.07	10.000	A-12	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	8.86	8.39	7.55	6.95	6.07	5.05
A-13	2.94	2.17	0.77	0.00	0.00	73.94	0.76	94.00	0.00	653.00	10.389	A-13	0.50	3.00	1.50	11.69	11.06	9.96	9.15	8.00	6.65	25.97	24.56	22.11	20.33	17.77	14.77
A-14	1.21	0.52	0.69	0.00	0.00	43.01	0.59	30.00	0.00	598.00	10.000	A-14	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	8.42	7.97	7.17	6.60	5.77	4.80
A-15	1.15	0.86	0.29	0.00	0.00	74.59	0.76	30.00	0.00	352.00	10.000	A-15	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	10.41	9.85	8.87	8.16	7.13	5.93
A-1AB	6.92	2.02	4.90	0.00	0.00	29.18	0.51	0.00	0.00	2863.00	31.811	A-1AB	0.50	3.00	1.50	6.76	6.26	5.66	5.08	4.46	3.58	23.89	22.11	19.98	17.96	15.75	12.63
A-2AD	70.21	3.35	60.24	6.63	0.00	10.90	0.40	181.00	0.00	4394.00	54.856	A-2AD	0.50	3.00	1.50	4.90	4.48	4.05	3.60	3.16	2.48	139.08	127.27	115.17	102.15	89.75	70.43
A-3AD	7.24	2.35	4.89	0.00	0.00	32.46	0.53	0.00	0.00	3102.00	34.467	A-3AD	0.50	3.00	1.50	6.46	5.97	5.40	4.84	4.25	3.40	24.73	22.85	20.64	18.52	16.25	12.99
A-1AE	11.54	2.51	9.03	0.00	0.00	21.75	0.47	118.00	0.00	5236.00	62.111	A-1AE	0.50	3.00	1.50	4.53	4.14	3.75	3.31	2.91	2.27	24.56	22.42	20.30	17.95	15.77	12.31
A-1AF	8.61	2.91	5.70	0.00	0.00	33.80	0.54	0.00	0.00	3332.00	37.022	A-1AF	0.50	3.00	1.50	6.20	5.72	5.17	4.63	4.06	3.24	28.61	26.40	23.86	21.37	18.75	14.95
TOTAL	183.03	39.36	116.27	27.41	0.00	31.23	0.51																				
OUTFALL 6 (WHITE OAK BAYOU TRIB. [E135-00-00])																											
A1	0.16	0.16	0.00	0.00	0.00	100.00	0.90	0.00	0.00	305.00	10.000	A1	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	1.71	1.62	1.46	1.34	1.17	0.97
A2	0.14	0.06	0.08	0.00	0.00	41.48	0.58	0.00	0.00	117.00	10.000	A2	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	0.97	0.92	0.83	0.76	0.67	0.56
A3	0.15	0.06	0.08	0.00	0.00	44.14	0.59	0.00	0.00	117.00	10.000	A3	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	1.02	0.97	0.87	0.80	0.70	0.58
A4	0.19	0.11	0.08	0.00	0.00	58.42	0.67	0.00	0.00	139.00	10.000	A4	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	1.51	1.43	1.29	1.19	1.04	0.86
A5	0.09	0.05	0.04	0.00	0.00	54.78	0.65	0.00	0.00	86.00	10.000	A5	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	0.69	0.65	0.59	0.54	0.47	0.39
A6	0.17	0.09	0.08	0.00	0.00	52.35	0.64	0.00	0.00	129.00	10.000	A6	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	1.29	1.22	1.10	1.01	0.88	0.73
A7	0.24	0.14	0.10	0.00	0.00	59.75	0.68	0.00	0.00	168.00	10.000	A7	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	1.90	1.80	1.62	1.49	1.30	1.08
A8	0.14	0.08	0.06	0.00	0.00	58.93	0.67	0.00	0.00	121.00	10.000	A8	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	1.12	1.06	0.95	0.88	0.77	0.64
A9	0.27	0.17	0.10	0.00	0.00	64.68	0.71	0.00	0.00	220.00	10.000	A9	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	2.25	2.13	1.92	1.77	1.54	1.28
A10	0.22	0.14	0.08	0.00	0.00	64.55	0.71	0.00	0.00	122.00	10.000	A10	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	1.84	1.74	1.57	1.44	1.26	1.05
A11	1.41	0.92	0.50	0.00	0.00	64.97	0.71	0.00	0.00	361.00	10.000	A11	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	11.87	11.23	10.11	9.30	8.13	6.76
A12	4.02	2.81	1.21	0.00	0.00	69.97	0.73	0.00	0.00	1032.00	11.467	A12	0.50	3.00	1.50	11.23	10.60	9.55	8.76	7.66	6.35	33.14	31.28	28.18	25.86	22.62	18.74
A13	1.69	1.23	0.46	0.00	0.00	72.60	0.75	0.00	0.00	497.00	10.000	A13	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	15.03	14.23	12.81	11.78	10.30	8.57
A14	1.27	0.89	0.38	0.00	0.00	70.45	0.74	0.00	0.00	414.00	10.000	A14	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	11.11	10.51	9.47	8.71	7.61	6.33
A15	3.37	2.32	1.05	0.00	0.00	68.87	0.73	0.00	0.00	744.00	10.000	A15	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	29.13	27.57	24.82	22.84	19.96	16.60
B1	1.58	1.15	0.43	0.00	0.00	72.75	0.75	0.00	0.00	597.00	10.000	B1	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	14.05	13.30	11.97	11.02	9.63	8.01
B2	1.57	1.11	0.46	0.00	0.00	70.72	0.74	0.00	0.00	765.00	10.000	B2	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	13.77	13.03	11.73	10.79	9.44	7.85
C1	0.21	0.13	0.08	0.00	0.00	62.86	0.70	0.00	0.00	170.00	10.000	C1	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	1.73	1.64	1.48	1.36	1.19	0.99
C2	0.12	0.07	0.04	0.00	0.00	62.07	0.69	0.00	0.00	105.00	10.000	C2	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	0.95	0.90	0.81	0.75	0.65	0.54
C3	0.26	0.18	0.08	0.00	0.00	68.18	0.73	0.00	0.00	215.00	10.000	C3	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	2.27	2.15	1.94	1.78	1.56	1.29
C4	0.28	0.17	0.11	0.00	0.00	60.71	0.68	0.00	0.00	223.00	10.000	C4	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	2.27	2.15	1.94	1.78	1.56	1.30
C5	0.45	0.36	0.09	0.00	0.00	80.36	0.79	0.00	0.00	181.00	10.000	C5	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	4.21	3.99	3.59	3.30	2.89	2.40
D1	0.41	0.35	0.06	0.00	0.00	84.63	0.82	0.00	0.00	188.00	10.000	D1	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	3.97	3.76	3.38	3.11	2.72	2.26
D2	0.40	0.25	0.15	0.00	0.00	63.00	0.70	0.00	0.00	235.00	10.000	D2	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	3.28	3.10	2.80	2.57	2.25	1.87
D3	0.19	0.11	0.08	0.00	0.00	56.11	0.66	0.00	0.00	133.00	10.000	D3	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	1.48	1.40	1.26	1.16	1.01	0.84
D4	0.29	0.18	0.11	0.00	0.00	62.74	0.70	0.00	0.00	122.00	10.000	D4	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	2.38	2.25	2.03	1.87	1.63	1.36
E1	0.19	0.13	0.06	0.00	0.00	68.11	0.72	0.00	0.00	157.00	10.000	E1	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	1.59	1.51	1.36	1.25	1.09	0.91
E2	0.24	0.15	0.09	0.00	0.00	62.00	0.69	0.00	0.00	196.00	10.000	E2	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	1.97	1.86	1.68	1.54	1.35	1.12
E3	0.39	0.24	0.15	0.00	0.00	61.54	0.69	0.00	0.00	204.00	10.000	E3	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	3.19	3.02	2.72	2.50	2.18	1.82
E4	0.30	0.24	0.06	0.00	0.00	81.10	0.80	0.00	0.00	134.00	10.000	E4	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	2.82	2.66	2.40	2.21	1.93	1.60
F1	0.38	0.27	0.11	0.00	0.00	71.52	0.74	0.00	0.00	195.00	10.000	F1	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	3.32	3.14	2.82	2.60	2.27	1.89
F2	0.22	0.14	0.07	0.00	0.00	66.99	0.72	0.00	0.00	133.00	10.000	F2	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	1.84	1.74	1.57	1.44	1.26	1.05
F3	0.37	0.21	0.17	0.00	0.00	55.76	0.66	0.00	0.00	130.00	10.000	F3	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	2.91	2.75	2.48	2.28	1.99	1.66
F4	0.15	0.09	0.07	0.00	0.00	56.80	0.66	0.00	0.00	111.00	10.000	F4	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	1.20	1.14	1.03	0.94	0.82	0.69
F5	0.18	0.10	0.08	0.00	0.00	57.46	0.67	0.00	0.00	140.00	10.000	F5	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	1.43	1.35	1.22	1.12	0.98	0.82
F6	0.14	0.08	0.05	0.00	0.00	61.95	0.69	0.00	0.00	112.00	10.000	F6	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	1.11	1.05	0.95	0.87	0.76	0.63
F7	0.56	0.34	0.22	0.00	0.00	60.28	0.68	0.00	0.00	270.00	10.000	F7	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	4.56	4.32	3.89	3.58	3.13	2.60
G1	0.40	0.27	0.13	0.00	0.00	68.35	0.73	0.00	0.00	265.00	10.000	G1	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	3.40	3.22	2.90	2.67	2.33	1.94
L1	0.11	0.04	0.06	0.00	0.00	40.47	0.57	0.00	0.00	87.00	10.000	L1	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	0.72	0.68	0.61	0.56	0.49	0.41
L2	0.14	0.06	0.09	0.00	0.00	40.69	0.57	0.00	0.00	109.00	10.000	L2	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	0.98	0.93	0.84	0.77	0.67	0.56
L3	0.29	0.12	0.17	0.00	0.00	40.48	0.57	0.00	0.00	111.00	10.000	L3	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	1.96	1.86	1.67	1.54	1.35	1.12
L4	0.17	0.07	0.10	0.00	0.00	40.71	0.57	0.00	0.00	129.00	10.000	L4	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	1.15	1.09	0.98	0.90	0.79	0.66
L5	0.14	0.06	0.08	0.00	0.00	40.80	0.57	0.00	0.00	100.00	10.000	L5	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	0.93	0.88	0.80	0.73	0.64	0.53
L6	0.16	0.08	0.07	0.00	0.00	52.72	0.64	0.00	0.00	117.00	10.000	L6	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	1.20	1.14	1.02	0.94	0.82	0.68
L7	0.17	0.08	0.09	0.00	0.00	48.48	0.62	0.00	0.00	101.00	10.000	L7	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	1.21	1.14	1.03	0.95	0.83	0.69
L8	0.34	0.19	0.15	0.00	0.00	55.72	0.66	0.00	0.00	147.00	10.000	L8	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	2.62	2.48	2.24	2.06	1.80	1.50
L9	0.32	0.18	0.14	0.00	0.00	55.59	0.66	0.00	0.00	224.00	10.000	L9	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	2.51	2.37	2.14	1.96	1.72	1.43
M1	1.37	0.99	0.38	0.00	0.00	71.99	0.75	0.00	0.00	380.00	10.000	M1	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	12.12	11.47	10.33	9.50	8.31	6.91
A-1A	1.36	0.39	0.97	0.00	0.00	28.87	0.51	60.00	0.00	514.00	10.000	A-1A	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	8.20	7.76	6.99	6.43	5.62	4.67
A-1AA	2.95	0.53	2.42	0.00	0.00	18.07	0.45	0.00	0.00	724.36	10.000	A-1AA	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	15.74	14.89	13.41	12.34	10.78	8.97
A-5A	1.59	0.61	0.98	0.00	0.00	38.19	0.56	47.00	0.00	516.00	10.000	A-5A	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	10.59	10.02	9.02	8.30	7.25	6.03
B-10A	2.70	1.21	1.49	0.00	0.00	44.81	0.60	58.00	0.00	983.00	12.856	B-10A	0.50	3.00	1.50	10.69	10.07	9.08	8.31	7.27	6.01	17.22	16.23	14.62	13.39	11.71	9.68
B-11A	1.37	0.68	0.68	0.00	0.00	50.05	0.63	43.00	0.00	454.00	10.000	B-11A	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	10.15	9.61	8.65	7.96	6.96	5.79
B-12A	2.96	2.14	0.82	0.00	0.00	72.30	0.75	0.00	0.00	614.00	10.000	B-12A	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	26.27	24.86	22.38	20.59	18.00	14.97
B-14A	1.76	0.84	0.92	0.00	0.00	47.72	0.61	43.00	0.00	550.00	10.000	B-14A	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	12.78	12.10	10.89	10.02	8.76	7.28
B-16A	1.84	0.85	0.99	0.00	0.00	46.24	0.60	108.00	0.00	360.00	10.000	B-16A	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	13.22	12.51	11.26	10.36	9.06	7.53
B-18A	1.67	0.63	1.04	0.00	0.00	37.91	0.56	52.00	0.00	279.00	10.000	B-18A	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	11.07	10.47	9.43	8.67	7.58	6.30
E135-04	4.75	3.28	1.47	0.00	0.00	69.01	0.73	0.00	0.00	1550.00	17.222	E135-04	0.50	3.00	1.50	9.35	8.76	7.90	7.19	6.30	5.16	32.39	30.34	27.36	24.92	21.82	17.87
D-2A	1.37	0.49	0.88	0.00	0.00	35.77	0.55	0.00	0.00	300.00	10.000	D-2A	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	8.89	8.41	7.58	6.97	6.09	5.07

US 290 / Hempstead Corridor Phase II - Drainage Impact & Mitigation Analysis
Small Watershed Method Hydrologic Calculations

COMP POINT NAME	TOTAL DRAINAGE AREA (AC)	PAVED AREA (AC)	GRASSED AREA (AC)	RESD/COMM DEV. (AC)	INDUSTRIAL DEV. (AC)	INC. % IMPERV.	WGH'T RUNOFF COEFF C	OVERLAND LENGTH (FT)	STRM. SWR LENGTH (FT)	CHAN. LENGTH (FT)	TIME OF CONCEN. TC	COMP POINT NAME	OVERLAND VELOCITY (FPS)	STRM. SWR VELOCITY (FT)	CHAN. VELOCITY (FT)	RANFALL INTENSITY IN/HR						RUNOFF IN CFS					
																100-YR i IN/HR	50-YR i IN/HR	25-YR i IN/HR	10-YR i IN/HR	5-YR i IN/HR	2-YR i IN/HR	100-YR Q CFS	50-YR Q CFS	25-YR Q CFS	10-YR Q CFS	5-YR Q CFS	2-YR Q CFS
D-4A	0.66	0.00	0.66	0.00	0.00	0.00	0.35	0.00	0.00	540.00	10.000	D-4A	0.50	3.00	1.50	***11.87***	***11.23***	***10.11***	***9.31***	***8.14***	***6.76***	***2.76***	***2.61***	***2.35***	***2.16***	***1.89***	***1.57***
E135-03	1.23	0.89	0.34	0.00	0.00	72.19	0.75	0.00	0.00	596.00	10.000	E135-03	0.50	3.00	1.50	***11.87***	***11.23***	***10.11***	***9.31***	***8.14***	***6.76***	***10.91***	***10.32***	***9.29***	***8.55***	***7.47***	***6.22***
ML-D1	4.92	0.00	4.92	0.00	0.00	0.00	0.35	0.00	0.00	2759.00	30.656	ML-D1	0.50	3.00	1.50	***6.91***	***6.40***	***5.78***	***5.20***	***4.56***	***3.66***	***11.88***	***11.01***	***9.94***	***8.94***	***7.84***	***6.30***
ML-D3	66.50	0.00	46.55	19.95	0.00	19.50	0.44	464.00	0.00	2052.00	38.267	ML-D3	0.50	3.00	1.50	***6.08***	***5.61***	***5.07***	***4.54***	***3.98***	***3.17***	***177.95***	***164.08***	***148.30***	***132.72***	***116.47***	***92.75***
ML-D4	7.12	5.66	1.46	0.00	0.00	79.47	0.79	0.00	0.00	3000.00	33.333	ML-D4	0.50	3.00	1.50	***6.59***	***6.09***	***5.50***	***4.94***	***4.33***	***3.47***	***36.92***	***34.14***	***30.85***	***27.70***	***24.29***	***19.45***
ML-D6	15.35	5.66	5.06	4.63	0.00	56.48	0.64	0.00	0.00	3284.00	36.489	ML-D6	0.50	3.00	1.50	***6.25***	***5.77***	***5.22***	***4.67***	***4.10***	***3.27***	***61.74***	***56.99***	***51.50***	***46.14***	***40.48***	***32.30***
ML-D7	15.27	0.00	15.27	0.00	0.00	0.00	0.35	112.00	0.00	5278.00	62.378	ML-D7	0.50	3.00	1.50	***4.52***	***4.13***	***3.73***	***3.30***	***2.90***	***2.26***	***24.16***	***22.05***	***19.96***	***17.65***	***15.51***	***12.10***
ML-D8	11.16	0.00	11.16	0.00	0.00	0.00	0.35	118.00	0.00	3293.00	40.522	ML-D8	0.50	3.00	1.50	***5.88***	***5.42***	***4.90***	***4.38***	***3.84***	***3.05***	***22.97***	***21.15***	***19.12***	***17.09***	***15.00***	***11.92***
E535-02	7.23	7.23	0.00	0.00	0.00	100.00	0.90	480.00	0.00	468.00	21.200	E535-02	0.50	3.00	1.50	***8.42***	***7.86***	***7.09***	***6.43***	***5.63***	***4.59***	***54.82***	***51.16***	***46.15***	***41.86***	***36.67***	***29.84***
TOTAL	**179.73**	**48.51**	**106.63**	**24.58**	**0.00**	**35.88**	**0.54**																				
PROPOSED CONDITIONS:																											
OUTFALL 5 (WHITE OAK BAYOU TRIB. [E112-00-00])																											
A-1	0.70	0.54	0.01	0.14	0.00	88.68	0.84	0.00	0.00	360.00	10.000	A-1	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*6.92*	*6.55*	*5.90*	*5.43*	*4.74*	*3.94*
A-2	2.02	1.24	0.11	0.67	0.00	79.61	0.79	0.00	0.00	445.00	10.000	A-2	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*18.91*	*17.89*	*16.11*	*14.82*	*12.96*	*10.77*
A-3	1.59	1.13	0.45	0.00	0.00	71.56	0.74	0.00	0.00	455.00	10.000	A-3	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*14.00*	*13.24*	*11.92*	*10.97*	*9.59*	*7.97*
A-4	4.97	1.72	0.70	2.56	0.00	62.85	0.69	0.00	0.00	495.00	10.000	A-4	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*40.94*	*38.74*	*34.88*	*32.09*	*28.05*	*23.33*
A-5	2.70	1.40	1.30	0.00	0.00	51.88	0.64	0.00	0.00	650.00	10.000	A-5	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*20.36*	*19.27*	*17.35*	*15.96*	*13.95*	*11.60*
A-6	1.85	0.64	0.26	0.96	0.00	62.78	0.69	0.00	0.00	427.00	10.000	A-6	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*15.27*	*14.45*	*13.01*	*11.97*	*10.46*	*8.70*
A-7	3.25	1.56	1.69	0.00	0.00	47.98	0.61	0.00	0.00	545.00	10.000	A-7	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*23.72*	*22.44*	*20.21*	*18.59*	*16.25*	*13.51*
A-8	3.12	2.25	0.87	0.00	0.00	72.14	0.75	0.00	0.00	620.00	10.000	A-8	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*27.66*	*26.17*	*23.56*	*21.68*	*18.95*	*15.76*
A-9	2.02	1.15	0.86	0.00	0.00	57.23	0.66	0.00	0.00	545.00	10.000	A-9	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*15.91*	*15.06*	*13.56*	*12.47*	*10.90*	*9.07*
A-10	1.54	1.02	0.52	0.00	0.00	66.28	0.71	0.00	0.00	530.00	10.000	A-10	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*13.03*	*12.33*	*11.10*	*10.21*	*8.93*	*7.42*
A-11	1.87	1.03	0.84	0.00	0.00	55.00	0.65	0.00	0.00	520.00	10.000	A-11	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*14.48*	*13.70*	*12.34*	*11.35*	*9.92*	*8.25*
A-12	1.57	0.69	0.88	0.00	0.00	44.07	0.59	0.00	0.00	657.00	10.000	A-12	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*11.03*	*10.43*	*9.40*	*8.64*	*7.56*	*6.28*
A-13	3.78	2.52	1.26	0.00	0.00	66.59	0.72	0.00	0.00	748.00	10.000	A-13	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*32.12*	*30.39*	*27.36*	*25.17*	*22.01*	*18.30*
A-14	0.70	0.39	0.31	0.00	0.00	55.74	0.66	0.00	0.00	450.00	10.000	A-14	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*5.43*	*5.13*	*4.62*	*4.25*	*3.72*	*3.09*
A-15	2.63	1.87	0.76	0.00	0.00	71.07	0.74	0.00	0.00	425.00	10.000	A-15	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*23.13*	*21.89*	*19.71*	*18.13*	*15.85*	*13.18*
A-16	1.60	1.20	0.40	0.00	0.00	75.19	0.76	0.00	0.00	575.00	10.000	A-16	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*14.48*	*13.70*	*12.34*	*11.35*	*9.92*	*8.25*
A-17	2.44	1.95	0.48	0.00	0.00	80.17	0.79	0.00	0.00	618.00	10.000	A-17	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*22.90*	*21.66*	*19.51*	*17.95*	*15.69*	*13.05*
A-18	2.58	2.22	0.36	0.00	0.00	86.08	0.82	0.00	0.00	670.00	10.000	A-18	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*25.21*	*23.85*	*21.48*	*19.76*	*17.27*	*14.36*
A-19	1.81	1.46	0.35	0.00	0.00	80.47	0.79	0.00	0.00	348.00	10.000	A-19	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*17.03*	*16.11*	*14.51*	*13.35*	*11.67*	*9.70*
MH-A3	43.57	5.57	8.56	29.44	0.00	49.95	0.62	0.00	0.00	3241.00	36.011	MH-A3	0.50	3.00	1.50	*6.30*	*5.82*	*5.26*	*4.71*	*4.13*	*3.30*	*171.04*	*157.91*	*142.70*	*127.89*	*112.20*	*89.57*
A-21	17.77	17.67	0.10	0.00	0.00	99.43	0.90	0.00	3100.00	100.00	18.333	A-21	0.50	3.00	1.50	*9.06*	*8.48*	*7.65*	*6.96*	*6.09*	*4.98*	*144.44*	*135.18*	*121.90*	*110.91*	*97.10*	*79.39*
A-22	5.18	5.18	0.00	0.00	0.00	100.00	0.90	0.00	1040.00	100.00	10.000	A-22	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*55.36*	*52.38*	*47.16*	*43.39*	*37.93*	*31.54*
MH-A6	7.63	2.57	5.05	0.00	0.00	33.76	0.54	0.00	0.00	3102.00	34.467	MH-A6	0.50	3.00	1.50	*6.46*	*5.97*	*5.40*	*4.84*	*4.25*	*3.40*	*26.40*	*24.39*	*22.04*	*19.77*	*17.35*	*13.87*
MH-A6A	9.14	1.35	7.79	0.00	0.00	14.80	0.43	50.00	0.00	5236.00	59.844	MH-A6A	0.50	3.00	1.50	*4.64*	*4.24*	*3.84*	*3.39*	*2.98*	*2.33*	*18.30*	*16.72*	*15.13*	*13.39*	*11.77*	*9.20*
MH-A6B	6.73	1.06	5.67	0.00	0.00	15.74	0.44	0.00	0.00	3332.00	37.022	MH-A6B	0.50	3.00	1.50	*6.20*	*5.72*	*5.17*	*4.63*	*4.06*	*3.24*	*18.22*	*16.82*	*15.20*	*13.61*	*11.94*	*9.52*
MH-A9	5.24	0.29	4.95	0.00	0.00	5.57	0.38	150.00	0.00	2945.00	37.722	MH-A9	0.50	3.00	1.50	*6.13*	*5.66*	*5.11*	*4.58*	*4.02*	*3.20*	*12.23*	*11.28*	*10.19*	*9.13*	*8.01*	*6.38*
A-24	7.49	0.00	4.84	2.65	0.00	19.43	0.46	25.00	0.00	3284.00	37.322	A-24	0.50	3.00	1.50	*6.17*	*5.69*	*5.15*	*4.61*	*4.04*	*3.22*	*21.07*	*19.44*	*17.57*	*15.73*	*13.80*	*11.00*
A-24A	6.38	0.00	6.38	0.00	0.00	0.00	0.35	25.00	0.00	5278.00	59.478	A-24A	0.50	3.00	1.50	*4.66*	*4.25*	*3.85*	*3.41*	*3.00*	*2.34*	*10.41*	*9.51*	*8.60*	*7.62*	*6.69*	*5.23*
A-24B	3.97	0.00	3.97	0.00	0.00	0.00	0.35	118.00	0.00	3293.00	40.522	A-24B	0.50	3.00	1.50	*5.88*	*5.42*	*4.90*	*4.38*	*3.84*	*3.05*	*8.16*	*7.52*	*6.79*	*6.07*	*5.33*	*4.23*
BF-63	70.21	3.35	60.24	6.63	0.00	9.96	0.40	181.00	0.00	4394.00	54.856	BF-63	0.50	3.00	1.50	*4.90*	*4.48*	*4.05*	*3.60*	*3.16*	*2.48*	*139.08*	*127.27*	*115.17*	*102.15*	*89.75*	*70.43*
POND	7.65	7.65	0.00	0.00	0.00	100.00	0.90	0.00	0.00	800.00	10.000	POND	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*81.78*	*77.38*	*69.68*	*64.11*	*56.04*	*46.60*
TOTAL	**233.68**	**70.68**	**119.97**	**43.03**	**0.00**	**40.37**	**0.57**																				
OUTFALL 6 (WHITE OAK BAYOU TRIB. [E135-00-00])																											
B-1	2.01	1.78	0.23	0.00	0.00	88.56	0.84	0.00	0.00	506.00	10.000	B-1	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*19.95*	*18.88*	*17.00*	*15.64*	*13.67*	*11.37*
B-2	1.72	1.48	0.24	0.00	0.00	86.19	0.82	0.00	0.00	630.00	10.000	B-2	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*16.84*	*15.94*	*14.35*	*13.20*	*11.54*	*9.60*
B-3	1.54	1.26	0.28	0.00	0.00	81.68	0.80	0.00	0.00	440.00	10.000	B-3	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*14.64*	*13.85*	*12.47*	*11.47*	*10.03*	*8.34*
B-4	1.38	1.21	0.17	0.00	0.00	87.89	0.83	0.00	0.00	528.00	10.000	B-4	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*13.63*	*12.90*	*11.61*	*10.68*	*9.34*	*7.76*
B-5	1.49	1.14	0.35	0.00	0.00	76.64	0.77	0.00	0.00	335.00	10.000	B-5	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*13.67*	*12.94*	*11.65*	*10.72*	*9.37*	*7.79*
B-6	1.38	1.24	0.14	0.00	0.00	89.81	0.84	0.00	0.00	380.00	10.000	B-6	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*13.80*	*13.05*	*11.75*	*10.81*	*9.45*	*7.86*
B-7	2.46	2.08	0.38	0.00	0.00	84.51	0.81	0.00	0.00	730.00	10.000	B-7	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*23.76*	*22.48*	*20.24*	*18.62*	*16.28*	*13.54*
B-8	1.20	1.00	0.20	0.00	0.00	83.22	0.81	0.00	0.00	330.00	10.000	B-8	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*11.53*	*10.91*	*9.82*	*9.04*	*7.90*	*6.57*
B-9	0.45	0.28	0.16	0.00	0.00	63.55	0.70	0.00	0.00	206.00	10.000	B-9	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*3.70*	*3.50*	*3.15*	*2.90*	*2.54*	*2.11*
B-10	2.08	1.89	0.19	0.00	0.00	90.66	0.85	0.00	0.00	700.00	10.000	B-10	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*20.99*	*19.86*	*17.88*	*16.45*	*14.38*	*11.96*
B-11	0.43	0.34	0.10	0.00	0.00	77.48	0.78	0.00	0.00	285.00	10.000	B-11	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*3.99*	*3.77*	*3.40*	*3.12*	*2.73*	*2.27*
B-12	0.65	0.53	0.12	0.00	0.00	81.09	0.80	0.00	0.00	280.00	10.000	B-12	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*6.13*	*5.80*	*5.22*	*4.80*	*4.20*	*3.49*
B-13	2.04	1.72	0.32	0.00	0.00	84.09	0.81	0.00	0.00	547.00	10.000	B-13	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*19.68*	*18.62*	*16.77*	*15.43*	*13.49*	*11.21*
B-14	0.58	0.41	0.17	0.00	0.00	70.67	0.74	0.00	0.00	228.00	10.000	B-14	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*5.09*	*4.82*	*4.34*	*3.99*	*3.49*	*2.90*
B-15	1.49	1.14	0.35	0.00	0.00	76.62	0.77	0.00	0.00	438.00	10.000	B-15	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*13.67*	*12.93*	*11.65*	*10.72*	*9.37*	*7.79*
B-16	2.04	1.80	0.23	0.00	0.00	88.54	0.84	0.00	0.00	705.00	10.000	B-16	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*20.25*	*19.16*	*17.25*	*15.87*	*13.87*	*11.54*
B-17	0.45	0.27	0.18	0.00	0.00	59.77	0.68	0.00	0.00	246.00	10.000	B-17	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*3.65*	*3.46*	*3.11*	*2.86*	*2.50*	*2.08*
B-18	1.03	0.88	0.15	0.00	0.00	85.55	0.82	0.00	0.00	285.00	10.000	B-18	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*10.06*	*9.52*	*8.57*	*7.89*	*6.90*	*5.73*
B-19	0.25	0.21	0.03	0.00	0.00	87.14	0.83	0.00	0.00	180.00	10.000	B-19	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*2.43*	*2.30*	*2.07*	*1.90*	*1.66*	*1.38*
B-20	0.42	0.34	0.07	0.00	0.00	82.25	0.80	0.00	0.00	216.00	10.000	B-20	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*3.98*	*3.77*	*3.39*	*3.12*	*2.73*	*2.27*
B-21	2.82	2.56	0.26	0.00	0.00	90.64	0.85	0.00	0.00	735.00	10.000	B-21	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*28.41*	*26.88*	*24.20*	*22.27*	*19.47*	*16.19*
B-22	0.41	0.30	0.11	0.00	0.00	72.83	0.75	0.00	0.00	184.00	10.000	B-22	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*3.62*	*3.43*	*3.09*	*2.84*	*2.48*	*2.06*
B-23	1.89	1.59	0.30	0.00	0.00	84.36	0.81	0.00	0.00	432.00	10.000	B-23	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*18.22*	*17.24*	*15.52*	*14.28*	*12.49*	*10.38*
B-24	2.28	2.10	0.18	0.00	0.00	92.30	0.86	0.00	0.00	835.00	10.000	B-24	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*23.18*	*21.93*	*19.75*	*18.17*	*15.88*	*13.21*
B-25	1.47	1.28	0.19	0.00	0.00	87.10	0.83	0.00	0.00	408.00	10.000	B-25	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*14.46*	*13.69*	*12.32*	*11.34*	*9.91*	*8.24*
B-26	1.03	0.86	0.18	0.00	0.00	83.03	0.81	0.00	0.00	280.00	10.000	B-26	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*9.89*	*9.36*	*8.43*	*7.76*	*6.78*	*5.64*
B-27	1.06	0.90	0.17	0.00	0.00	84.32	0.81	0.00	0.00	310.00	10.000	B-27	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*10.26*	*9.71*	*8.74*	*8.04*	*7.03*	*5.85*
B-28	1.16	1.03	0.13	0.00	0.00	88.57	0.84	0.00	0.00	332.00	10.000	B-28	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*11.51*	*10.89*	*9.81*	*9.02*	*7.89*	*6.56*
B-29	2.46	2.01	0.46	0.00	0.00	81.47	0.80	0.00	0.00	505.00	10.000	B-29	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*23.32*	*22.07*	*19.87*	*18.28*	*15.98*	*13.29*
B-30	1.84	1.55	0.29	0.00	0.00	84.24	0.81	0.00	0.00	460.00	10.000	B-30	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*17.80*	*16.84*	*15.16*	*13.95*	*12.19*	*10.14*
B-31	2.03	1.53	0.50	0.00	0.00	75.27	0.76	0.00	0.00	435.00	10.000	B-31	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*18.45*	*17.46*	*15.72*	*14.46*	*12.64*	*10.51*
B-32	1.03	0.86	0.18	0.00	0.00	83.03	0.81	0.00	0.00	287.00	10.000	B-32	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*9.89*	*9.36*	*8.43*	*7.75*	*6.78*	*5.64*
AN-0	2.36	1.91	0.39	0.05	0.00	82.45	0.80	0.00	0.00	586.49	10.000	AN-0	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*22.48*	*21.27*	*19.15*	*17.62*	*15.40*	*12.81*
AS-0	2.31	2.00	0.31	0.00	0.00	86.58	0.83	0.00	0.00	490.30	10.000	AS-0	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*22.66*	*21.44*	*19.30*	*17.76*	*15.53*	*12.91*
AS-1	1.21	1.00	0.20	0.00	0.00	83.09	0.81	0.00	0.00	331.15	10.000	AS-1	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*11.55*	*10.93*	*9.84*	*9.05*	*7.91*	*6.58*
B-33	75.73	19.37	37.17	19.19	0.00	39.52	0.57	800.00	3646.00	1760.00	66.478	B-33	0.50	3.00	1.50	*4.34*	*3.96*	*3.58*	*3.16*	*2.78*	*2.16*	*186.40*	*169.87*	*153.83*	*135.77*	*119.37*	*92.90*
B-34	5.63	4.70	0.93	0.00	0.00	83.48	0.81	0.00	340.00	100.00	10.000	B-34	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*54.05*	*51.15*	*46.05*	*42.37*	*37.04*	*30.80*
ML-01	29.29	23.77	5.51	0.00	0.00	81.18	0.80	0.00	0.00	5285.05	58.723	ML-01	0.50	3.00	1.50	*4.69*	*4.29*	*3.88*	*3.44*	*3.02*	*2.36*	*109.50*	*100.05*	*90.57*	*80.19*	*70.47*	*55.14*
A-1A	0.70	0.00	0.70	0.00	0.00	0.00	0.35	35.00	0.00	590.00	10.000	A-1A	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*2.91*	*2.75*	*2.48*	*2.28*	*1.99*	*1.66*
A-5A	0.84	0.00	0.84	0.00	0.00	0.00	0.35	40.00	0.00	720.00	10.000	A-5A	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*3.50*	*3.31*	*2.98*	*2.75*	*2.40*	*2.00*
B-10A	1.26	0.00	1.26	0.00	0.00	0.00	0.35	40.00	0.00	1030.00	12.778	B-10A	0.50	3.00	1.50	*10.72*	*10.10*	*9.10*	*8.34*	*7.29*	*6.03*	*4.74*	*4.47*	*4.03*	*3.69*	*3.23*	*2.67*
B-11A	0.56	0.00	0.56	0.00	0.00	0.00	0.35	50.00	0.00	435.00	10.000	B-11A	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*2.34*	*2.21*	*1.99*	*1.83*	*1.60*	*1.33*

US 290 / Hempstead Corridor Phase II - Drainage Impact & Mitigation Analysis
Small Watershed Method Hydrologic Calculations

COMP POINT NAME	TOTAL DRAINAGE AREA (AC)	PAVED AREA (AC)	GRASSED AREA (AC)	RESD/COMM DEV. (AC)	INDUSTRIAL DEV. (AC)	INC. % IMPERV.	WGH'T RUNOFF COEFF C	OVERLAND LENGTH (FT)	STRM. SWR LENGTH (FT)	CHAN. LENGTH (FT)	TIME OF CONCEN. TC	COMP POINT NAME	OVERLAND VELOCITY (FPS)	STRM. SWR VELOCITY (FT)	CHAN. VELOCITY (FT)	RANFALL INTENSITY IN/HR						RUNOFF IN CFS					
																100-YR i IN/HR	50-YR i IN/HR	25-YR i IN/HR	10-YR i IN/HR	5-YR i IN/HR	2-YR i IN/HR	100-YR Q CFS	50-YR Q CFS	25-YR Q CFS	10-YR Q CFS	5-YR Q CFS	2-YR Q CFS
B-14A	0.77	0.00	0.77	0.00	0.00	0.00	0.35	40.00	0.00	600.00	10.000	**B-14A**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*3.20*	*3.02*	*2.72*	*2.50*	*2.19*	*1.82*
B-16A	0.83	0.00	0.83	0.00	0.00	0.00	0.35	50.00	0.00	670.00	10.000	**B-16A**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*3.45*	*3.27*	*2.94*	*2.71*	*2.37*	*1.97*
B-18A	0.93	0.00	0.93	0.00	0.00	0.00	0.35	40.00	0.00	745.00	10.000	**B-18A**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*3.87*	*3.66*	*3.30*	*3.03*	*2.65*	*2.20*
D-2A	0.78	0.00	0.78	0.00	0.00	0.00	0.35	30.00	0.00	640.00	10.000	**D-2A**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*3.23*	*3.06*	*2.75*	*2.53*	*2.22*	*1.84*
D-4A	0.19	0.00	0.19	0.00	0.00	0.00	0.35	25.00	0.00	145.00	10.000	**D-4A**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*0.77*	*0.73*	*0.66*	*0.61*	*0.53*	*0.44*
E535-02	5.80	5.80	0.00	0.00	0.00	100.00	0.90	0.00	0.00	815.00	10.000	**E535-02**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*61.97*	*58.64*	*52.80*	*48.58*	*42.47*	*35.31*
E535-03	19.17	19.17	0.00	0.00	0.00	100.00	0.90	0.00	0.00	1690.00	18.778	**E535-03**	0.50	3.00	1.50	*8.96*	*8.38*	*7.56*	*6.87*	*6.02*	*4.92*	*154.57*	*144.58*	*130.39*	*118.57*	*103.82*	*84.82*
TOTAL	**192.93**	**115.29**	**58.39**	**19.25**	**0.00**	**65.25**	**0.71**																				

US 290 / Hempstead Corridor Phase II - Drainage Impact & Mitigation Analysis
Small Watershed Method Hydrologic Calculations

COMP POINT NAME	TOTAL DRAINAGE AREA (AC)	PAVED AREA (AC)	GRASSED AREA (AC)	RESD/COMM DEV. (AC)	INDUSTRIAL DEV. (AC)	INC. % IMPERV.	WGH'T RUNOFF COEFF C	OVERLAND LENGTH (FT)	STRM. SWR LENGTH (FT)	CHAN. LENGTH (FT)	TIME OF CONCEN. TC	COMP POINT NAME	OVERLAND VELOCITY (FPS)	STRM. SWR VELOCITY (FT)	CHAN. VELOCITY (FT)	RAINFALL INTENSITY IN/HR						RUNOFF IN CFS					
																100-YR i IN/HR	50-YR i IN/HR	25-YR i IN/HR	10-YR i IN/HR	5-YR i IN/HR	2-YR i IN/HR	100-YR Q CFS	50-YR Q CFS	25-YR Q CFS	10-YR Q CFS	5-YR Q CFS	2-YR Q CFS
	IMP%>>>	100	0	55	73																						
	C>>>>	0.9	0.35	0.65	0.75																						
EXISTING CONDITIONS:																											
OUTFALL 7 (WHITE OAK BAYOU TRIB. [E127-00-00])																											
CO-1	0.18	0.08	0.10	0.00	0.00	44.44	0.59	8.20	0.00	128.44	10.000	CO-1	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	1.27	1.20	1.08	1.00	0.87	0.72
CO-3	0.54	0.31	0.23	0.00	0.00	57.41	0.67	9.50	0.00	338.80	10.000	CO-3	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	4.27	4.04	3.64	3.35	2.92	2.43
CO-9	1.77	0.30	0.22	1.25	0.00	55.79	0.66	57.34	0.00	412.64	10.000	CO-9	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	13.77	13.03	11.73	10.79	9.43	7.84
CO-10	2.40	0.05	0.08	2.27	0.00	54.10	0.65	426.97	0.00	153.32	15.936	CO-10	0.50	3.00	1.50	9.70	9.10	8.20	7.48	6.55	5.38	15.02	14.09	12.70	11.59	10.14	8.33
CN-1	2.12	1.50	0.62	0.00	0.00	70.75	0.74	90.26	0.00	538.96	10.000	CN-1	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	18.60	17.60	15.85	14.58	12.75	10.60
CN-2	1.24	0.88	0.36	0.00	0.00	70.97	0.74	99.92	0.00	208.95	10.000	CN-2	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	10.90	10.31	9.29	8.54	7.47	6.21
CN-3	0.77	0.54	0.23	0.00	0.00	70.13	0.74	106.67	0.00	215.90	10.000	CN-3	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	6.73	6.36	5.73	5.27	4.61	3.83
CN-4	0.86	0.63	0.23	0.00	0.00	73.26	0.75	105.52	0.00	129.78	10.000	CN-4	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	7.69	7.27	6.55	6.03	5.27	4.38
CS-1	5.17	3.70	1.47	0.00	0.00	71.57	0.74	105.69	0.00	1907.49	24.717	CS-1	0.50	3.00	1.50	7.77	7.23	6.53	5.90	5.17	4.19	29.88	27.80	25.09	22.68	19.88	16.09
CS-2	1.11	0.79	0.32	0.00	0.00	71.17	0.74	102.08	0.00	189.75	10.000	CS-2	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	9.77	9.25	8.32	7.66	6.70	5.57
CP-1	0.05	0.04	0.01	0.00	0.00	80.00	0.79	30.00	0.00	59.36	10.000	CP-1	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	0.47	0.44	0.40	0.37	0.32	0.27
CP-2	1.66	0.14	0.10	1.42	0.00	55.48	0.65	447.77	0.00	52.91	15.514	CP-2	0.50	3.00	1.50	9.82	9.22	8.31	7.59	6.64	5.46	10.65	10.00	9.01	8.22	7.20	5.92
CP-4	2.26	0.22	0.17	1.87	0.00	55.24	0.65	322.43	0.00	169.98	12.636	CP-4	0.50	3.00	1.50	10.77	10.15	9.15	8.38	7.33	6.06	15.87	14.96	13.47	12.35	10.80	8.93
CP-6	2.04	0.19	0.01	1.84	0.00	58.92	0.67	414.33	0.00	155.53	15.539	CP-6	0.50	3.00	1.50	9.81	9.21	8.31	7.58	6.63	5.45	13.45	12.63	11.38	10.39	9.09	7.47
CQ-1	0.06	0.05	0.01	0.00	0.00	83.33	0.81	48.81	0.00	34.71	10.000	CQ-1	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	0.58	0.54	0.49	0.45	0.39	0.33
CQ-3	2.16	0.28	0.13	1.75	0.00	57.52	0.66	364.08	0.00	322.32	15.717	CQ-3	0.50	3.00	1.50	9.76	9.16	8.26	7.54	6.60	5.42	14.01	13.15	11.85	10.82	9.47	7.78
CQ-5	1.70	0.25	0.06	1.39	0.00	59.68	0.68	262.11	0.00	321.88	12.313	CQ-5	0.50	3.00	1.50	10.90	10.27	9.25	8.48	7.42	6.14	12.52	11.81	10.64	9.75	8.53	7.06
CQ-7	1.38	0.22	0.04	1.12	0.00	60.58	0.68	248.55	0.00	314.20	11.776	CQ-7	0.50	3.00	1.50	11.11	10.48	9.44	8.66	7.57	6.27	10.44	9.85	8.87	8.14	7.12	5.90
CQ-8	0.18	0.15	0.03	0.00	0.00	83.33	0.81	42.34	0.00	85.20	10.000	CQ-8	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	1.73	1.63	1.47	1.35	1.18	0.98
CQ-9	0.09	0.08	0.01	0.00	0.00	88.89	0.84	42.52	0.00	78.13	10.000	CQ-9	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	0.90	0.85	0.76	0.70	0.61	0.51
CQ-10	0.50	0.39	0.10	0.01	0.00	79.10	0.79	58.00	0.00	59.57	10.000	CQ-10	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	4.66	4.41	3.97	3.65	3.19	2.66
CN-7	1.29	0.93	0.36	0.00	0.00	72.09	0.75	80.94	0.00	384.99	10.000	CN-7	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	11.43	10.82	9.74	8.96	7.83	6.51
CN-6	1.09	0.72	0.37	0.00	0.00	66.06	0.71	79.98	0.00	452.07	10.000	CN-6	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	9.23	8.73	7.86	7.24	6.33	5.26
CN-5	1.22	0.81	0.41	0.00	0.00	66.39	0.72	77.57	0.00	333.32	10.000	CN-5	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	10.36	9.80	8.83	8.12	7.10	5.90
X-21	0.25	0.18	0.07	0.00	0.00	72.00	0.75	32.47	0.00	212.15	10.000	X-21	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	2.21	2.10	1.89	1.74	1.52	1.26
X-22	0.16	0.12	0.04	0.00	0.00	75.00	0.76	29.78	0.00	93.55	10.000	X-22	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	1.45	1.37	1.23	1.14	0.99	0.83
X-23	0.19	0.15	0.04	0.00	0.00	78.95	0.78	29.25	0.00	91.52	10.000	X-23	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	1.77	1.67	1.51	1.39	1.21	1.01
X-24	0.25	0.19	0.06	0.00	0.00	76.00	0.77	29.95	0.00	145.44	10.000	X-24	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	2.28	2.16	1.94	1.79	1.56	1.30
X-25	0.25	0.19	0.06	0.00	0.00	76.00	0.77	28.67	0.00	136.64	10.000	X-25	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	2.28	2.16	1.94	1.79	1.56	1.30
X-26	0.22	0.17	0.05	0.00	0.00	77.27	0.78	29.39	0.00	145.19	10.000	X-26	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	2.02	1.92	1.72	1.59	1.39	1.15
X-27	0.27	0.21	0.06	0.00	0.00	77.78	0.78	30.98	0.00	201.35	10.000	X-27	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	2.49	2.36	2.12	1.95	1.71	1.42
X-28	0.23	0.19	0.04	0.00	0.00	82.61	0.80	28.04	0.00	189.10	10.000	X-28	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	2.20	2.08	1.87	1.72	1.51	1.25
X-29	0.19	0.14	0.05	0.00	0.00	73.68	0.76	31.38	0.00	130.84	10.000	X-29	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	1.70	1.61	1.45	1.34	1.17	0.97
X-30	0.51	0.44	0.07	0.00	0.00	86.27	0.82	30.63	0.00	157.58	10.000	X-30	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	4.99	4.72	4.25	3.91	3.42	2.84
X-31	0.28	0.23	0.05	0.00	0.00	82.14	0.80	42.32	0.00	142.69	10.000	X-31	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	2.67	2.52	2.27	2.09	1.83	1.52
X-32	0.30	0.25	0.05	0.00	0.00	83.33	0.81	40.69	0.00	143.37	10.000	X-32	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	2.88	2.72	2.45	2.26	1.97	1.64
X-33	0.30	0.26	0.04	0.00	0.00	86.67	0.83	40.84	0.00	160.31	10.000	X-33	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	2.94	2.79	2.51	2.31	2.02	1.68
X-34	0.46	0.37	0.09	0.00	0.00	80.43	0.79	52.48	0.00	144.36	10.000	X-34	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	4.33	4.09	3.69	3.39	2.97	2.47
X-35	0.38	0.30	0.08	0.00	0.00	78.95	0.78	75.15	0.00	153.23	10.000	X-35	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	3.54	3.35	3.01	2.77	2.42	2.02
X-36	0.30	0.24	0.06	0.00	0.00	80.00	0.79	42.03	0.00	168.76	10.000	X-36	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	2.81	2.66	2.40	2.21	1.93	1.60
X-37	0.26	0.21	0.05	0.00	0.00	80.77	0.79	40.17	0.00	126.45	10.000	X-37	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	2.45	2.32	2.09	1.92	1.68	1.40
X-38	0.29	0.24	0.05	0.00	0.00	82.76	0.81	41.16	0.00	132.88	10.000	X-38	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	2.77	2.62	2.36	2.17	1.90	1.58
X-39	0.41	0.34	0.07	0.00	0.00	82.93	0.81	40.41	0.00	102.82	10.000	X-39	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	3.92	3.71	3.34	3.08	2.69	2.24
X-40	0.42	0.35	0.07	0.00	0.00	83.33	0.81	54.37	0.00	88.10	10.000	X-40	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	4.03	3.81	3.43	3.16	2.76	2.30
X-41	0.23	0.20	0.03	0.00	0.00	86.96	0.83	30.25	0.00	143.70	10.000	X-41	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	2.26	2.14	1.93	1.77	1.55	1.29
X-42	0.24	0.18	0.06	0.00	0.00	75.00	0.76	25.59	0.00	151.49	10.000	X-42	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	2.17	2.06	1.85	1.70	1.49	1.24
X-43	0.23	0.17	0.06	0.00	0.00	73.91	0.76	28.89	0.00	139.99	10.000	X-43	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	2.07	1.95	1.76	1.62	1.42	1.18
RD-2	1.12	0.00	1.12	0.00	0.00	0.00	0.35	28.10	0.00	758.87	10.000	RD-2	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	4.65	4.40	3.96	3.65	3.19	2.65
RD-3	0.50	0.02	0.48	0.00	0.00	4.00	0.37	25.22	0.00	358.40	10.000	RD-3	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	2.21	2.09	1.88	1.73	1.51	1.26
RD-4	0.29	0.02	0.27	0.00	0.00	6.90	0.39	25.96	0.00	200.93	10.000	RD-4	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	1.34	1.26	1.14	1.05	0.92	0.76
RD-5	1.21	0.00	1.21	0.00	0.00	0.00	0.35	24.58	0.00	394.68	10.000	RD-5	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	5.03	4.76	4.28	3.94	3.45	2.86
RD-6	1.40	0.00	1.40	0.00	0.00	0.00	0.35	26.05	0.00	614.28	10.000	RD-6	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	5.82	5.50	4.96	4.56	3.99	3.31
RD-7	1.26	0.00	1.26	0.00	0.00	0.00	0.35	23.08	0.00	521.20	10.000	RD-7	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	5.24	4.95	4.46	4.10	3.59	2.98
RD-8	1.66	0.00	1.66	0.00	0.00	0.00	0.35	31.30	0.00	728.30	10.000	RD-8	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	6.90	6.53	5.88	5.41	4.73	3.93
RD-9	1.32	0.00	1.32	0.00	0.00	0.00	0.35	29.58	0.00	499.29	10.000	RD-9	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	5.48	5.19	4.67	4.30	3.76	3.13
RD-10	1.86	0.00	1.86	0.00	0.00	0.00	0.35	24.24	0.00	411.13	10.000	RD-10	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	7.73	7.31	6.58	6.06	5.30	4.40
CR-1	0.47	0.29	0.15	0.03	0.00	65.21	0.71	44.60	0.00	221.12	10.000	CR-1	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	3.95	3.74	3.37	3.10	2.71	2.25
CR-3	0.52	0.34	0.18	0.00	0.00	65.38	0.71	45.55	0.00	153.27	10.000	CR-3	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	4.38	4.15	3.73	3.43	3.00	2.50
CR-5	0.32	0.19	0.13	0.00	0.00	59.38	0.68	40.39	0.00	146.57	10.000	CR-5	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	2.57	2.43	2.19	2.01	1.76	1.46
CR-6	0.11	0.07	0.04	0.00	0.00	63.64	0.70	38.13	0.00	238.21	10.000	CR-6	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	0.91	0.86	0.78	0.72	0.63	0.52
CR-8	0.40	0.24	0.16	0.00	0.00	60.00	0.68	39.23	0.00	123.00	10.000	CR-8	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	3.23	3.06	2.75	2.53	2.21	1.84
CN-8	1.70	1.11	0.59	0.00	0.00	65.29	0.71	92.23	0.00	712.26	10.988	CN-8	0.50	3.00	1.50	11.43	10.80	9.72	8.93	7.81	6.48	13.78	13.02	11.72	10.77	9.42	7.81
CN-9	1.68	1.11	0.57	0.00	0.00	66.07	0.71	78.09	0.00	375.15	10.000	CN-9	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	14.23	13.46	12.12	11.15	9.75	8.11
CS-3	3.43	2.47	0.96	0.00	0.00	72.01	0.75	77.06	0.00	948.40	13.106	CS-3	0.50	3.00	1.50	10.60	9.99	9.00	8.24	7.21	5.95	27.14	25.55	23.02	21.08	18.44	15.23
CS-4	1.80	1.24	0.56	0.00	0.00	68.89	0.73	148.03	0.00	336.56	10.000	CS-4	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	15.58	14.74	13.27	12.21	10.67	8.87
CS-5	1.69	1.13	0.56	0.00	0.00	66.86	0.72	76.53	0.00	360.84	10.000	CS-5	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	14.40	13.63	12.27	11.29	9.87	8.21
CS-6	1.17	0.85	0.32	0.00	0.00	72.65	0.75	88.10	0.00	313.93	10.000	CS-6	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	10.41	9.85	8.87	8.16	7.13	5.93
CT2-1	0.31	0.22	0.09	0.00	0.00	70.97	0.74	38.46	0.00	80.01	10.000	CT2-1	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	2.72	2.58	2.32	2.14	1.87	1.55
CT2-2	0.25	0.15	0.10	0.00	0.00	60.00	0.68	85.86	0.00	91.81	10.000	CT2-2	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	2.02	1.91	1.72	1.58	1.38	1.15
CU-3	0.54	0.30	0.24	0.00	0.00	55.56	0.66	39.25	0.00	56.28	10.000	CU-3	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	4.20	3.98	3.58	3.29	2.88	2.39
CU-2	2.14	0.47	0.08	1.59	0.00	62.83	0.69	271.85	0.00	189.54	11.168	CU-2	0.50	3.00	1.50	11.35	10.72	9.66	8.87	7.76	6.43	16.86	15.92	14.34	13.17	11.51	9.55
CT-99	1.72	1.20	0.52	0.00	0.00	69.77	0.73	86.07	0.00	346.12	10.000	CT-99	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	14.98	14.18	12.76	11.74	10.27	8.54
CT-98	1.48	1.22	0.26	0.00	0.00	82.43	0.80	104.15	0.00	599.65	10.134	CT-98	0.50	3.00	1.50	11.81	11.17	10.06	9.25	8.09	6.72	14.04	13.28	11.96	11.00	9.62	7.99
CA-1	3.23	0.21	0.17	2.85	0.00	55.03	0.65	351.93	0.00	135.72	13.239	CA-1	0.50	3.00	1.50	10.56	9.94	8.96	8.20	7.17	5.92	22.18	20.88	18.82	17.23	15.07	12.44
CA-2	0.15	0.12	0.03	0.00	0.00	80.00	0.79	43.29	0.00	71.36	10.000	CA-2	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	1.41	1.33	1.20	1.10	0.96	0.80
CA-3	0.19	0.15	0.04	0.00	0.00	78.95	0.78	41.55	0.00	129.14	10.000	CA-3	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	1.77	1.67	1.51	1.39	1.21	1.01
CA-4	2.63	0.38	0.03	2.22	0.00	60.87	0.68	339.38	0.00	274.54	14.363	CA-4	0.50	3.00	1.50	10.18	9.57	8.62	7.88	6.90	5.68	18.27	17.18	15.48	14.15	12.38	10.20
CA-6	2.42	0.35	0.23	1.84	0.00	56.28	0.66	353.34	0.00	108.25	12.981	CA-6	0.50	3.00	1.50	10.65	10.03	9.04	8.28	7.24	5.98	16.95	15.96	14.38	13.17	11.52	9.52
CA-8	0.91	0.29	0.03	0.59	0.00	67.53	0.72	213.35	0.00	81.42	10.000	CA-8	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	7.78	7.36	6.63	6.10	5.33	4.43
CA-11	1.37	0.53	0.17	0.67	0.00	65.58	0.71	104.80	0.00	261.56	10.000	CA-11	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	11.54	10.92	9.83	9.05	7.91	6.57
CA-12	0.12	0.09	0.03	0.00	0.00	75.00	0.76	40.51	0.00	93.33	10.000	CA-12	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	1.09	1.03	0.93	0.85	0.74	0.62
CA-13	0.08	0.06	0.02	0.00	0.00	75.00	0.76	40.33	0.00	59.26	10.000	CA-13	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	0.72	0.69	0.62	0.57	0.50	0.41
CA-15	1.59	0.51	0.23	0.85	0.00	61.48	0.69	129.20	0.00	130.44	10.000	CA-15	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	12.96	12.27	11.05	10.16	8.88	7.39
CA-17	0.13	0.11	0.02	0.00	0.00	84.62	0.82	55.39	0.00	83.23	10.000	CA-17	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	1.26	1.19	1.07	0.99	0.86	0.72
CA-18	1.14	0.50	0.02	0.62	0.00	73.77	0.75	111.04	0.00	204.84	10.000	CA-18	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	10.21	9.66	8.70	8.00	7.00	5.82
CA-19	0.32	0.27	0.05	0.00	0.00	84.38	0.81	63.57	0.00	126.76	10.000	CA-19	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	3.09	2.93	2.63	2.42	2.12	1.76
CA-21	0.80	0.51	0.04	0.25	0.00	80.94	0.79	108.39	0.00	190.66	10.000	CA-21	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	7.54	7.14	6.43	5.91	5.17	4.30

US 290 / Hempstead Corridor Phase II - Drainage Impact & Mitigation Analysis
Small Watershed Method Hydrologic Calculations

COMP POINT NAME	TOTAL DRAINAGE AREA (AC)	PAVED AREA (AC)	GRASSED AREA (AC)	RESD/COMM DEV. (AC)	INDUSTRIAL DEV. (AC)	INC. % IMPERV.	WGH'T RUNOFF COEFF C	OVERLAND LENGTH (FT)	STRM. SWR LENGTH (FT)	CHAN. LENGTH (FT)	TIME OF CONCEN. TC	COMP POINT NAME	OVERLAND VELOCITY (FPS)	STRM. SWR VELOCITY (FT)	CHAN. VELOCITY (FT)	RAINFALL INTENSITY IN/HR						RUNOFF IN CFS					
																100-YR i IN/HR	50-YR i IN/HR	25-YR i IN/HR	10-YR i IN/HR	5-YR i IN/HR	2-YR i IN/HR	100-YR Q CFS	50-YR Q CFS	25-YR Q CFS	10-YR Q CFS	5-YR Q CFS	2-YR Q CFS
CA-25	0.64	0.33	0.03	0.28	0.00	75.63	0.76	119.53	0.00	117.12	10.000	**CA-25**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*5.81*	*5.50*	*4.95*	*4.56*	*3.98*	*3.31*
CA-26	0.08	0.07	0.01	0.00	0.00	87.50	0.83	40.09	0.00	65.61	10.000	**CA-26**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*0.79*	*0.75*	*0.67*	*0.62*	*0.54*	*0.45*
CA-27	0.06	0.05	0.01	0.00	0.00	83.33	0.81	40.51	0.00	43.02	10.000	**CA-27**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*0.58*	*0.54*	*0.49*	*0.45*	*0.39*	*0.33*
CA-31	2.80	0.88	0.07	1.85	0.00	67.77	0.72	363.18	0.00	73.86	12.927	**CA-31**	0.50	3.00	1.50	*10.67*	*10.05*	*9.05*	*8.29*	*7.25*	*5.99*	*21.54*	*20.29*	*18.28*	*16.74*	*14.65*	*12.10*
CA-32	0.16	0.13	0.03	0.00	0.00	81.25	0.80	41.72	0.00	66.74	10.000	**CA-32**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*1.51*	*1.43*	*1.29*	*1.19*	*1.04*	*0.86*
CA-33	6.22	0.57	0.02	5.63	0.00	58.95	0.67	599.95	0.00	155.08	21.721	**CA-33**	0.50	3.00	1.50	*8.32*	*7.76*	*7.00*	*6.35*	*5.56*	*4.52*	*34.77*	*32.43*	*29.26*	*26.53*	*23.24*	*18.90*
CA-34	0.16	0.13	0.03	0.00	0.00	81.25	0.80	40.70	0.00	145.23	10.000	**CA-34**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*1.51*	*1.43*	*1.29*	*1.19*	*1.04*	*0.86*
CA-35	3.08	0.42	0.05	2.61	0.00	60.24	0.68	457.45	0.00	177.43	17.220	**CA-35**	0.50	3.00	1.50	*9.35*	*8.76*	*7.90*	*7.19*	*6.30*	*5.16*	*19.55*	*18.32*	*16.52*	*15.05*	*13.17*	*10.79*
CA-36	0.16	0.15	0.01	0.00	0.00	93.75	0.87	40.29	0.00	101.33	10.000	**CA-36**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*1.64*	*1.56*	*1.40*	*1.29*	*1.13*	*0.94*
CA-37	1.62	0.28	0.13	1.21	0.00	58.36	0.67	461.67	0.00	53.40	15.982	**CA-37**	0.50	3.00	1.50	*9.69*	*9.09*	*8.19*	*7.47*	*6.54*	*5.37*	*10.50*	*9.85*	*8.88*	*8.10*	*7.09*	*5.82*
CB-1	0.28	0.23	0.05	0.00	0.00	82.14	0.80	31.25	0.00	323.05	10.000	**CB-1**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*2.67*	*2.52*	*2.27*	*2.09*	*1.83*	*1.52*
CB-2	2.52	1.85	0.67	0.00	0.00	73.41	0.75	114.14	0.00	658.89	11.126	**CB-2**	0.50	3.00	1.50	*11.37*	*10.74*	*9.67*	*8.88*	*7.77*	*6.44*	*21.60*	*20.40*	*18.37*	*16.87*	*14.76*	*12.24*
CB-3	0.27	0.21	0.06	0.00	0.00	77.78	0.78	28.67	0.00	196.79	10.000	**CB-3**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*2.49*	*2.36*	*2.12*	*1.95*	*1.71*	*1.42*
CB-4	0.89	0.62	0.27	0.00	0.00	69.66	0.73	99.88	0.00	195.35	10.000	**CB-4**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*7.75*	*7.33*	*6.60*	*6.07*	*5.31*	*4.41*
CB-5	0.27	0.21	0.06	0.00	0.00	77.78	0.78	32.52	0.00	167.03	10.000	**CB-5**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*2.49*	*2.36*	*2.12*	*1.95*	*1.71*	*1.42*
CB-6	0.89	0.63	0.26	0.00	0.00	70.79	0.74	101.20	0.00	165.65	10.000	**CB-6**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*7.81*	*7.39*	*6.66*	*6.12*	*5.35*	*4.45*
CB-7	0.28	0.21	0.07	0.00	0.00	75.00	0.76	30.43	0.00	169.42	10.000	**CB-7**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*2.53*	*2.40*	*2.16*	*1.99*	*1.74*	*1.44*
CB-8	1.24	0.90	0.34	0.00	0.00	72.58	0.75	103.49	0.00	283.68	10.000	**CB-8**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*11.03*	*10.44*	*9.40*	*8.65*	*7.56*	*6.28*
CB-9	0.30	0.23	0.07	0.00	0.00	76.67	0.77	31.76	0.00	181.68	10.000	**CB-9**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*2.75*	*2.60*	*2.34*	*2.15*	*1.88*	*1.57*
CB-10	0.81	0.81	0.00	0.00	0.00	100.00	0.90	0.00	0.00	297.36	10.000	**CB-10**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*8.65*	*8.19*	*7.37*	*6.78*	*5.93*	*4.93*
CB-14	1.08	0.98	0.10	0.00	0.00	90.74	0.85	0.00	0.00	539.40	10.000	**CB-14**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*10.89*	*10.30*	*9.28*	*8.53*	*7.46*	*6.20*
CB-15	0.36	0.30	0.06	0.00	0.00	83.33	0.81	0.00	0.00	188.89	10.000	**CB-15**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*3.45*	*3.27*	*2.94*	*2.71*	*2.37*	*1.97*
CB-16	3.09	2.31	0.78	0.00	0.00	74.76	0.76	0.00	0.00	1117.74	12.419	**CB-16**	0.50	3.00	1.50	*10.86*	*10.23*	*9.22*	*8.45*	*7.39*	*6.11*	*25.53*	*24.07*	*21.68*	*19.87*	*17.38*	*14.38*
CB-17	0.57	0.47	0.10	0.00	0.00	82.46	0.80	0.00	0.00	413.81	10.000	**CB-17**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*5.44*	*5.14*	*4.63*	*4.26*	*3.73*	*3.10*
CT-10	1.61	1.20	0.41	0.00	0.00	74.53	0.76	0.00	0.00	524.34	10.000	**CT-10**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*14.53*	*13.74*	*12.38*	*11.39*	*9.95*	*8.28*
CT-15	2.21	1.93	0.28	0.00	0.00	87.33	0.83	0.00	0.00	856.45	10.000	**CT-15**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*21.79*	*20.61*	*18.56*	*17.08*	*14.93*	*12.41*
CT-27A	1.24	1.23	0.01	0.00	0.00	99.19	0.90	0.00	0.00	302.37	10.000	**CT-27A**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*13.18*	*12.47*	*11.23*	*10.33*	*9.03*	*7.51*
CT-30	1.17	0.91	0.26	0.00	0.00	77.78	0.78	0.00	0.00	534.28	10.000	**CT-30**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*10.80*	*10.22*	*9.20*	*8.47*	*7.40*	*6.16*
CT-38	1.20	0.90	0.30	0.00	0.00	75.00	0.76	0.00	0.00	342.70	10.000	**CT-38**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*10.86*	*10.28*	*9.25*	*8.51*	*7.44*	*6.19*
CB-28	0.26	0.26	0.00	0.00	0.00	100.00	0.90	0.00	0.00	514.17	10.000	**CB-28**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*2.78*	*2.63*	*2.37*	*2.18*	*1.90*	*1.58*
CB-11	0.43	0.36	0.07	0.00	0.00	83.72	0.81	0.00	0.00	234.70	10.000	**CB-11**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*4.14*	*3.91*	*3.52*	*3.24*	*2.84*	*2.36*
TOTAL	**119.84**	**55.05**	**28.78**	**36.01**	**0.00**	**62.46**	**0.69**																				
OUTFALL 8 (BELTWAY 8 SYSTEM [TO WHITE OAK BAYOU TRIB. E139-00-00])																											
CJ-1	0.27	0.23	0.04	0.00	0.00	85.19	0.82	0.00	0.00	187.36	10.000	**CJ-1**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*2.62*	*2.48*	*2.24*	*2.06*	*1.80*	*1.49*
CJ-27	0.08	0.06	0.02	0.00	0.00	75.00	0.76	0.00	0.00	85.47	10.000	**CJ-27**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*0.72*	*0.69*	*0.62*	*0.57*	*0.50*	*0.41*
CJ-28	3.12	0.07	0.02	3.03	0.00	55.66	0.65	0.00	0.00	477.65	10.000	**CJ-28**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*24.21*	*22.91*	*20.63*	*18.98*	*16.59*	*13.80*
CJ-2	0.12	0.10	0.02	0.00	0.00	83.33	0.81	0.00	0.00	150.89	10.000	**CJ-2**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*1.15*	*1.09*	*0.98*	*0.90*	*0.79*	*0.66*
CJ-2A	0.10	0.08	0.02	0.00	0.00	80.00	0.79	0.00	0.00	101.90	10.000	**CJ-2A**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*0.94*	*0.89*	*0.80*	*0.74*	*0.64*	*0.53*
CJ-3	0.08	0.07	0.01	0.00	0.00	87.50	0.83	0.00	0.00	79.69	10.000	**CJ-3**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*0.79*	*0.75*	*0.67*	*0.62*	*0.54*	*0.45*
CJ-29	0.09	0.08	0.01	0.00	0.00	88.89	0.84	0.00	0.00	86.60	10.000	**CJ-29**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*0.90*	*0.85*	*0.76*	*0.70*	*0.61*	*0.51*
CD-2	3.65	0.14	3.51	0.00	0.00	3.83	0.37	281.21	0.00	245.30	12.099	**CD-2**	0.50	3.00	1.50	*10.98*	*10.35*	*9.33*	*8.55*	*7.48*	*6.19*	*14.88*	*14.03*	*12.64*	*11.59*	*10.14*	*8.39*
CD-4	0.22	0.18	0.04	0.00	0.00	81.82	0.80	0.00	0.00	164.79	10.000	**CD-4**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*2.09*	*1.98*	*1.78*	*1.64*	*1.43*	*1.19*
CD-6	2.31	0.27	2.04	0.00	0.00	11.69	0.41	248.03	0.00	211.22	10.615	**CD-6**	0.50	3.00	1.50	*11.59*	*10.96*	*9.87*	*9.07*	*7.93*	*6.58*	*11.09*	*10.49*	*9.44*	*8.68*	*7.59*	*6.30*
CD-10	2.41	0.21	2.20	0.00	0.00	8.71	0.40	252.06	0.00	157.30	10.150	**CD-10**	0.50	3.00	1.50	*11.80*	*11.16*	*10.05*	*9.25*	*8.08*	*6.72*	*11.32*	*10.71*	*9.64*	*8.87*	*7.75*	*6.44*
CD-11	0.42	0.35	0.07	0.00	0.00	83.33	0.81	0.00	0.00	243.83	10.000	**CD-11**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*4.03*	*3.81*	*3.43*	*3.16*	*2.76*	*2.30*
CC-39	0.55	0.50	0.05	0.00	0.00	90.91	0.85	0.00	0.00	195.84	10.000	**CC-39**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*5.55*	*5.25*	*4.73*	*4.35*	*3.80*	*3.16*
CC-44	0.50	0.47	0.03	0.00	0.00	94.00	0.87	0.00	0.00	187.90	10.000	**CC-44**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*5.15*	*4.87*	*4.38*	*4.03*	*3.53*	*2.93*
CC-52	0.48	0.47	0.01	0.00	0.00	97.92	0.89	0.00	0.00	202.51	10.000	**CC-52**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*5.06*	*4.79*	*4.31*	*3.97*	*3.47*	*2.88*
CC-53	0.44	0.40	0.04	0.00	0.00	90.91	0.85	0.00	0.00	222.37	10.000	**CC-53**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*4.44*	*4.20*	*3.78*	*3.48*	*3.04*	*2.53*
CC-38	0.49	0.48	0.01	0.00	0.00	97.96	0.89	0.00	0.00	310.04	10.000	**CC-38**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*5.17*	*4.89*	*4.40*	*4.05*	*3.54*	*2.95*
CC-43	0.21	0.21	0.00	0.00	0.00	100.00	0.90	0.00	0.00	169.84	10.000	**CC-43**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*2.24*	*2.12*	*1.91*	*1.76*	*1.54*	*1.28*
CC-33	0.30	0.29	0.01	0.00	0.00	96.67	0.88	0.00	0.00	207.75	10.000	**CC-33**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*3.14*	*2.97*	*2.68*	*2.46*	*2.15*	*1.79*
CC-28	0.31	0.29	0.02	0.00	0.00	93.55	0.86	0.00	0.00	220.31	10.000	**CC-28**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*3.18*	*3.01*	*2.71*	*2.49*	*2.18*	*1.81*
CC-29	0.31	0.30	0.01	0.00	0.00	96.77	0.88	0.00	0.00	220.79	10.000	**CC-29**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*3.25*	*3.07*	*2.77*	*2.55*	*2.22*	*1.85*
CC-32	0.70	0.63	0.07	0.00	0.00	90.00	0.85	0.00	0.00	255.78	10.000	**CC-32**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*7.02*	*6.64*	*5.98*	*5.50*	*4.81*	*4.00*
CC-24	0.47	0.42	0.05	0.00	0.00	89.36	0.84	0.00	0.00	247.35	10.000	**CC-24**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*4.70*	*4.44*	*4.00*	*3.68*	*3.22*	*2.68*
CC-20	0.19	0.19	0.00	0.00	0.00	100.00	0.90	0.00	0.00	154.97	10.000	**CC-20**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*2.03*	*1.92*	*1.73*	*1.59*	*1.39*	*1.16*
CC-19	0.47	0.46	0.01	0.00	0.00	97.87	0.89	0.00	0.00	215.99	10.000	**CC-19**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*4.96*	*4.69*	*4.22*	*3.89*	*3.40*	*2.82*
CC-21	0.30	0.30	0.00	0.00	0.00	100.00	0.90	0.00	0.00	212.45	10.000	**CC-21**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*3.21*	*3.03*	*2.73*	*2.51*	*2.20*	*1.83*
CC-23	0.36	0.31	0.05	0.00	0.00	86.11	0.82	0.00	0.00	153.41	10.000	**CC-23**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*3.52*	*3.33*	*3.00*	*2.76*	*2.41*	*2.01*
CC-14	0.20	0.17	0.03	0.00	0.00	85.00	0.82	0.00	0.00	110.61	10.000	**CC-14**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*1.94*	*1.84*	*1.65*	*1.52*	*1.33*	*1.11*
CC-13	0.17	0.14	0.03	0.00	0.00	82.35	0.80	0.00	0.00	99.75	10.000	**CC-13**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*1.62*	*1.53*	*1.38*	*1.27*	*1.11*	*0.92*
CC-8	0.64	0.63	0.01	0.00	0.00	98.44	0.89	0.00	0.00	436.25	10.000	**CC-8**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*6.77*	*6.41*	*5.77*	*5.31*	*4.64*	*3.86*
CC-7	0.19	0.19	0.00	0.00	0.00	100.00	0.90	0.00	0.00	406.26	10.000	**CC-7**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*2.03*	*1.92*	*1.73*	*1.59*	*1.39*	*1.16*
CC-10	0.46	0.36	0.10	0.00	0.00	78.26	0.78	0.00	0.00	210.95	10.000	**CC-10**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*4.26*	*4.03*	*3.63*	*3.34*	*2.92*	*2.43*
CC-9	0.20	0.16	0.04	0.00	0.00	80.00	0.79	0.00	0.00	99.94	10.000	**CC-9**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*1.88*	*1.77*	*1.60*	*1.47*	*1.29*	*1.07*
CC-6	0.20	0.15	0.05	0.00	0.00	75.00	0.76	0.00	0.00	116.50	10.000	**CC-6**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*1.81*	*1.71*	*1.54*	*1.42*	*1.24*	*1.03*
CC-5	0.33	0.29	0.04	0.00	0.00	87.88	0.83	0.00	0.00	178.63	10.000	**CC-5**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*3.26*	*3.09*	*2.78*	*2.56*	*2.24*	*1.86*
CC-1	0.39	0.20	0.19	0.00	0.00	51.28	0.63	0.00	0.00	225.07	10.000	**CC-1**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*2.93*	*2.77*	*2.49*	*2.29*	*2.01*	*1.67*
CC-2	1.21	0.30	0.91	0.00	0.00	24.79	0.49	0.00	0.00	352.92	10.000	**CC-2**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*6.99*	*6.61*	*5.95*	*5.48*	*4.79*	*3.98*
CC-3	0.45	0.25	0.20	0.00	0.00	55.56	0.66	0.00	0.00	233.78	10.000	**CC-3**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*3.50*	*3.31*	*2.98*	*2.75*	*2.40*	*2.00*
CC-15	0.19	0.11	0.08	0.00	0.00	57.89	0.67	0.00	0.00	130.16	10.000	**CC-15**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*1.51*	*1.43*	*1.28*	*1.18*	*1.03*	*0.86*
CC-16	0.11	0.06	0.05	0.00	0.00	54.55	0.65	0.00	0.00	120.37	10.000	**CC-16**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*0.85*	*0.80*	*0.72*	*0.67*	*0.58*	*0.48*
CC-17	0.55	0.31	0.24	0.00	0.00	56.36	0.66	0.00	0.00	259.04	10.000	**CC-17**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*4.31*	*4.08*	*3.67*	*3.38*	*2.95*	*2.46*
CC-18	0.17	0.10	0.07	0.00	0.00	58.82	0.67	0.00	0.00	155.40	10.000	**CC-18**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*1.36*	*1.29*	*1.16*	*1.07*	*0.93*	*0.77*
CC-25	0.28	0.17	0.11	0.00	0.00	60.71	0.68	0.00	0.00	224.59	10.000	**CC-25**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*2.27*	*2.15*	*1.94*	*1.78*	*1.56*	*1.30*
CC-26	0.77	0.65	0.12	0.00	0.00	84.42	0.81	0.00	0.00	208.73	10.000	**CC-26**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*7.44*	*7.04*	*6.34*	*5.83*	*5.10*	*4.24*
CC-27	0.12	0.08	0.04	0.00	0.00	66.67	0.72	0.00	0.00	133.59	10.000	**CC-27**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*1.02*	*0.97*	*0.87*	*0.80*	*0.70*	*0.58*
CC-35	0.13	0.09	0.04	0.00	0.00	69.23	0.73	0.00	0.00	133.93	10.000	**CC-35**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*1.13*	*1.07*	*0.96*	*0.88*	*0.77*	*0.64*
CC-36	1.32	0.93	0.39	0.00	0.00	70.24	0.74	0.00	0.00	273.58	10.000	**CC-36**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*11.57*	*10.95*	*9.86*	*9.07*	*7.93*	*6.59*
CC-37	0.15	0.12	0.03	0.00	0.00	80.00	0.79	0.00	0.00	145.47	10.000	**CC-37**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*1.41*	*1.33*	*1.20*	*1.10*	*0.96*	*0.80*
CC-42	1.08	0.68	0.40	0.00	0.00	62.96	0.70	0.00	0.00	306.43	10.000	**CC-42**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*8.93*	*8.45*	*7.61*	*7.00*	*6.12*	*5.09*
CC-57	0.63	0.49	0.14	0.00	0.00	77.78	0.78	0.00	0.00	259.92	10.000	**CC-57**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*5.82*	*5.50*	*4.96*	*4.56*	*3.99*	*3.31*
CC-46	0.70	0.38	0.32	0.00	0.00	54.29	0.65	0.00	0.00	209.00	10.000	**CC-46**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*5.39*	*5.10*	*4.59*	*4.22*	*3.69*	*3.07*
CE-1	0.11	0.09	0.02	0.00	0.00	81.82	0.80	0.00	0.00	118.68	10.000	**CE-1**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*1.04*	*0.99*	*0.89*	*0.82*	*0.72*	*0.60*
CC-49	0.41	0.37	0.04	0.00	0.00	90.24	0.85	0.00	0.00	145.16	10.000	**CC-49**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*4.12*	*3.90*	*3.51*	*3.23*	*2.82*	*2.35*
CE-2	0.09	0.08	0.01	0.00	0.00	88.89	0.84	0.00	0.00	115.50	10.000	**CE-2**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*0.90*	*0.85*	*0.76*	*0.70*	*0.61*	*0.51*
CE-9	0.47	0.45	0.02	0.00	0.00	95.74	0.88	0.00	0.00	196.99	10.000	**CE-9**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*4.89*	*4.63*	*4.17*	*3.83*	*3.35*	*2.79*
CE-3	0.17	0.14	0.03	0.00	0.00	82.35	0.80	0.00	0.00	189.25	10.000	**CE-3**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*1.62*	*1.53*	*1.38*	*1.27*	*1.11*	*0.92*

US 290 / Hempstead Corridor Phase II - Drainage Impact & Mitigation Analysis
Small Watershed Method Hydrologic Calculations

COMP POINT NAME	TOTAL DRAINAGE AREA (AC)	PAVED AREA (AC)	GRASSED AREA (AC)	RESD/COMM DEV. (AC)	INDUSTRIAL DEV. (AC)	INC. % IMPERV.	WGH'T RUNOFF COEFF C	OVERLAND LENGTH (FT)	STRM. SWR LENGTH (FT)	CHAN. LENGTH (FT)	TIME OF CONCEN. TC	COMP POINT NAME	OVERLAND VELOCITY (FPS)	STRM. SWR VELOCITY (FT)	CHAN. VELOCITY (FT)	RAINFALL INTENSITY IN/HR						RUNOFF IN CFS					
																100-YR i IN/HR	50-YR i IN/HR	25-YR i IN/HR	10-YR i IN/HR	5-YR i IN/HR	2-YR i IN/HR	100-YR Q CFS	50-YR Q CFS	25-YR Q CFS	10-YR Q CFS	5-YR Q CFS	2-YR Q CFS
CE-7	0.32	0.32	0.00	0.00	0.00	100.00	0.90	0.00	0.00	252.97	10.000	**CE-7**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*3.42*	*3.24*	*2.91*	*2.68*	*2.34*	*1.95*
CF-1	0.25	0.25	0.00	0.00	0.00	100.00	0.90	0.00	0.00	200.89	10.000	**CF-1**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*2.67*	*2.53*	*2.28*	*2.09*	*1.83*	*1.52*
CF-2	0.25	0.25	0.00	0.00	0.00	100.00	0.90	0.00	0.00	202.88	10.000	**CF-2**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*2.67*	*2.53*	*2.28*	*2.09*	*1.83*	*1.52*
CE-11	0.15	0.13	0.02	0.00	0.00	86.67	0.83	0.00	0.00	100.15	10.000	**CE-11**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*1.47*	*1.39*	*1.25*	*1.15*	*1.01*	*0.84*
CE-6	0.44	0.39	0.05	0.00	0.00	88.64	0.84	0.00	0.00	301.12	10.000	**CE-6**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*4.37*	*4.14*	*3.73*	*3.43*	*3.00*	*2.49*
CE-4	0.30	0.23	0.07	0.00	0.00	76.67	0.77	0.00	0.00	166.93	10.000	**CE-4**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*2.75*	*2.60*	*2.34*	*2.15*	*1.88*	*1.57*
CE-5	2.29	1.50	0.79	0.00	0.00	65.50	0.71	0.00	0.00	727.50	10.000	**CE-5**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*19.31*	*18.27*	*16.45*	*15.14*	*13.23*	*11.00*
CG-1	0.39	0.33	0.06	0.00	0.00	84.62	0.82	0.00	0.00	159.74	10.000	**CG-1**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*3.78*	*3.57*	*3.22*	*2.96*	*2.59*	*2.15*
CG-2	1.00	0.34	0.66	0.00	0.00	34.00	0.54	0.00	0.00	267.73	10.000	**CG-2**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*6.38*	*6.03*	*5.43*	*5.00*	*4.37*	*3.63*
CG-8	0.43	0.43	0.00	0.00	0.00	100.00	0.90	0.00	0.00	203.26	10.000	**CG-8**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*4.59*	*4.35*	*3.91*	*3.60*	*3.15*	*2.62*
CG-7	1.13	0.95	0.18	0.00	0.00	84.07	0.81	0.00	0.00	200.36	10.000	**CG-7**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*10.90*	*10.31*	*9.29*	*8.54*	*7.47*	*6.21*
CJ-19	0.21	0.13	0.08	0.00	0.00	61.90	0.69	0.00	0.00	110.14	10.000	**CJ-19**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*1.72*	*1.63*	*1.47*	*1.35*	*1.18*	*0.98*
CC-55	0.63	0.60	0.03	0.00	0.00	95.24	0.87	0.00	0.00	266.47	10.000	**CC-55**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*6.54*	*6.18*	*5.57*	*5.12*	*4.48*	*3.72*
CD-14	1.44	0.22	0.04	1.18	0.00	60.35	0.68	225.15	0.00	67.40	10.000	**CD-14**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*11.62*	*11.00*	*9.90*	*9.11*	*7.96*	*6.62*
CD-15	0.64	0.18	0.46	0.00	0.00	28.13	0.50	210.00	0.00	0.00	10.000	**CD-15**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*3.83*	*3.63*	*3.27*	*3.01*	*2.63*	*2.18*
CD-16	0.60	0.08	0.12	0.40	0.00	50.00	0.62	0.00	0.00	218.01	10.000	**CD-16**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*4.44*	*4.20*	*3.78*	*3.48*	*3.04*	*2.53*
CC-56	0.63	0.54	0.09	0.00	0.00	85.71	0.82	0.00	0.00	260.42	10.000	**CC-56**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*6.14*	*5.81*	*5.23*	*4.82*	*4.21*	*3.50*
CD-17	1.10	0.20	0.25	0.65	0.00	50.68	0.63	0.00	0.00	321.74	10.000	**CD-17**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*8.19*	*7.75*	*6.98*	*6.42*	*5.61*	*4.67*
CE-10	0.39	0.32	0.07	0.00	0.00	82.05	0.80	0.00	0.00	213.48	10.000	**CE-10**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*3.71*	*3.51*	*3.16*	*2.91*	*2.54*	*2.11*
CG-10	0.37	0.25	0.12	0.00	0.00	67.57	0.72	0.00	0.00	299.89	10.000	**CG-10**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*3.17*	*3.00*	*2.70*	*2.48*	*2.17*	*1.81*
CG-9	0.63	0.55	0.08	0.00	0.00	87.30	0.83	0.00	0.00	333.22	10.000	**CG-9**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*6.21*	*5.88*	*5.29*	*4.87*	*4.25*	*3.54*
CD-19	1.13	0.20	0.05	0.88	0.00	60.53	0.68	205.41	0.00	159.54	10.000	**CD-19**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*9.14*	*8.64*	*7.78*	*7.16*	*6.26*	*5.21*
CD-20	0.90	0.12	0.14	0.64	0.00	52.44	0.64	0.00	0.00	348.13	10.000	**CD-20**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*6.80*	*6.44*	*5.80*	*5.33*	*4.66*	*3.88*
CD-21	0.90	0.13	0.12	0.65	0.00	54.17	0.65	0.00	0.00	341.39	10.000	**CD-21**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*6.90*	*6.53*	*5.88*	*5.41*	*4.73*	*3.93*
CH-1	0.77	0.70	0.07	0.00	0.00	90.91	0.85	0.00	0.00	329.02	10.000	**CH-1**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*7.77*	*7.35*	*6.62*	*6.09*	*5.32*	*4.43*
CD-22	1.76	0.32	0.05	1.39	0.00	61.62	0.69	0.00	0.00	482.51	10.000	**CD-22**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*14.35*	*13.58*	*12.23*	*11.25*	*9.84*	*8.18*
CD-23	2.03	0.33	0.05	1.65	0.00	60.96	0.68	0.00	0.00	551.22	10.000	**CD-23**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*16.47*	*15.58*	*14.03*	*12.91*	*11.28*	*9.38*
CD-24	3.10	0.31	2.79	0.00	0.00	10.00	0.41	0.00	0.00	659.43	10.000	**CD-24**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*14.91*	*14.10*	*12.70*	*11.68*	*10.21*	*8.49*
CG-11	0.33	0.33	0.00	0.00	0.00	100.00	0.90	0.00	0.00	219.98	10.000	**CG-11**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*3.53*	*3.34*	*3.00*	*2.76*	*2.42*	*2.01*
CG-3	0.14	0.10	0.04	0.00	0.00	71.43	0.74	0.00	0.00	138.84	10.000	**CG-3**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*1.23*	*1.17*	*1.05*	*0.97*	*0.85*	*0.70*
CG-4	0.14	0.12	0.02	0.00	0.00	85.71	0.82	0.00	0.00	124.03	10.000	**CG-4**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*1.37*	*1.29*	*1.16*	*1.07*	*0.94*	*0.78*
CK-3	0.56	0.20	0.36	0.00	0.00	35.71	0.55	0.00	0.00	324.24	10.000	**CK-3**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*3.63*	*3.44*	*3.10*	*2.85*	*2.49*	*2.07*
CG-5	0.18	0.15	0.03	0.00	0.00	83.33	0.81	0.00	0.00	174.00	10.000	**CG-5**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*1.73*	*1.63*	*1.47*	*1.35*	*1.18*	*0.98*
CG-6	0.11	0.08	0.03	0.00	0.00	72.73	0.75	0.00	0.00	117.67	10.000	**CG-6**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*0.98*	*0.93*	*0.83*	*0.77*	*0.67*	*0.56*
CK-2	0.16	0.09	0.07	0.00	0.00	56.25	0.66	0.00	0.00	145.66	10.000	**CK-2**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*1.25*	*1.19*	*1.07*	*0.98*	*0.86*	*0.71*
CK-1	0.37	0.22	0.15	0.00	0.00	59.46	0.68	0.00	0.00	172.49	10.000	**CK-1**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*2.97*	*2.81*	*2.53*	*2.33*	*2.04*	*1.69*
CD-27	4.73	0.40	0.03	4.30	0.00	58.46	0.67	0.00	0.00	735.60	10.000	**CD-27**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*37.58*	*35.56*	*32.02*	*29.46*	*25.75*	*21.41*
CD-28	2.80	0.32	0.00	2.48	0.00	60.14	0.68	0.00	0.00	982.73	10.919	**CD-28**	0.50	3.00	1.50	*11.46*	*10.83*	*9.75*	*8.96*	*7.83*	*6.50*	*21.77*	*20.57*	*18.53*	*17.02*	*14.88*	*12.35*
CD-29	4.72	0.24	4.21	0.00	0.00	5.08	0.36	0.00	0.00	830.61	10.000	**CD-29**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*20.06*	*18.98*	*17.09*	*15.72*	*13.74*	*11.43*
CK-4	0.45	0.45	0.00	0.00	0.00	100.00	0.90	0.00	0.00	227.13	10.000	**CK-4**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*4.81*	*4.55*	*4.10*	*3.77*	*3.29*	*2.74*
CL-8	0.29	0.21	0.08	0.00	0.00	72.41	0.75	0.00	0.00	195.84	10.000	**CL-8**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*2.58*	*2.44*	*2.19*	*2.02*	*1.77*	*1.47*
CK-7	0.37	0.36	0.01	0.00	0.00	97.30	0.89	0.00	0.00	198.98	10.000	**CK-7**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*3.89*	*3.68*	*3.31*	*3.05*	*2.66*	*2.22*
CK-8	0.56	0.56	0.00	0.00	0.00	100.00	0.90	0.00	0.00	290.84	10.000	**CK-8**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*5.98*	*5.66*	*5.10*	*4.69*	*4.10*	*3.41*
CK-9	0.35	0.35	0.00	0.00	0.00	100.00	0.90	0.00	0.00	208.61	10.000	**CK-9**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*3.74*	*3.54*	*3.19*	*2.93*	*2.56*	*2.13*
CL-4	0.58	0.43	0.15	0.00	0.00	74.14	0.76	0.00	0.00	296.77	10.000	**CL-4**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*5.22*	*4.94*	*4.45*	*4.09*	*3.58*	*2.97*
CL-5	0.34	0.34	0.00	0.00	0.00	100.00	0.90	0.00	0.00	205.09	10.000	**CL-5**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*3.63*	*3.44*	*3.10*	*2.85*	*2.49*	*2.07*
CK-6	0.46	0.33	0.13	0.00	0.00	71.74	0.74	0.00	0.00	200.99	10.000	**CK-6**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*4.07*	*3.85*	*3.46*	*3.19*	*2.79*	*2.32*
CL-3	0.22	0.13	0.09	0.00	0.00	59.09	0.68	0.00	0.00	147.01	10.000	**CL-3**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*1.76*	*1.67*	*1.50*	*1.38*	*1.21*	*1.00*
CL-1	0.82	0.65	0.17	0.00	0.00	79.27	0.79	0.00	0.00	218.25	10.000	**CL-1**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*7.65*	*7.24*	*6.52*	*6.00*	*5.24*	*4.36*
CR-5	0.45	0.45	0.00	0.00	0.00	100.00	0.90	0.00	0.00	134.60	10.000	**CR-5**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*4.81*	*4.55*	*4.10*	*3.77*	*3.29*	*2.74*
CD-30	0.50	0.38	0.12	0.00	0.00	76.00	0.77	0.00	0.00	181.78	10.000	**CD-30**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*4.56*	*4.31*	*3.88*	*3.57*	*3.12*	*2.60*
CL-7	0.94	0.94	0.00	0.00	0.00	100.00	0.90	0.00	0.00	351.63	10.000	**CL-7**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*10.04*	*9.50*	*8.56*	*7.87*	*6.88*	*5.72*
CD-31	1.11	0.94	0.17	0.00	0.00	84.68	0.82	0.00	0.00	192.28	10.000	**CD-31**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*10.75*	*10.17*	*9.16*	*8.43*	*7.37*	*6.13*
CJ-56	6.50	4.40	2.10	0.00	0.00	67.69	0.72	0.00	0.00	631.72	10.000	**CJ-56**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*55.74*	*52.74*	*47.49*	*43.69*	*38.19*	*31.76*
CR-11	1.20	0.76	0.44	0.00	0.00	63.33	0.70	0.00	0.00	334.77	10.000	**CR-11**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*9.95*	*9.41*	*8.48*	*7.80*	*6.82*	*5.67*
CR-15	0.19	0.15	0.04	0.00	0.00	78.95	0.78	0.00	0.00	128.21	10.000	**CR-15**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*1.77*	*1.67*	*1.51*	*1.39*	*1.21*	*1.01*
CR-13	0.68	0.49	0.19	0.00	0.00	72.06	0.75	0.00	0.00	127.57	10.000	**CR-13**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*6.03*	*5.70*	*5.13*	*4.72*	*4.13*	*3.43*
CR-25	0.75	0.75	0.00	0.00	0.00	100.00	0.90	0.00	0.00	387.90	10.000	**CR-25**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*8.01*	*7.58*	*6.83*	*6.28*	*5.49*	*4.57*
CR-14	0.26	0.13	0.13	0.00	0.00	50.00	0.63	0.00	0.00	177.04	10.000	**CR-14**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*1.93*	*1.83*	*1.64*	*1.51*	*1.32*	*1.10*
CR-16	0.38	0.22	0.16	0.00	0.00	57.89	0.67	0.00	0.00	201.30	10.000	**CR-16**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*3.02*	*2.85*	*2.57*	*2.36*	*2.07*	*1.72*
CR-17	0.20	0.08	0.12	0.00	0.00	40.00	0.57	0.00	0.00	136.34	10.000	**CR-17**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*1.35*	*1.28*	*1.15*	*1.06*	*0.93*	*0.77*
CR-18	0.16	0.08	0.08	0.00	0.00	50.00	0.63	0.00	0.00	122.18	10.000	**CR-18**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*1.19*	*1.12*	*1.01*	*0.93*	*0.81*	*0.68*
CR-19	0.75	0.35	0.40	0.00	0.00	46.67	0.61	0.00	0.00	302.81	10.000	**CR-19**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*5.40*	*5.11*	*4.60*	*4.23*	*3.70*	*3.08*
CR-88	0.61	0.61	0.00	0.00	0.00	100.00	0.90	0.00	0.00	193.68	10.000	**CR-88**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*6.52*	*6.17*	*5.55*	*5.11*	*4.47*	*3.71*
CR-41	0.21	0.21	0.00	0.00	0.00	100.00	0.90	0.00	0.00	245.30	10.000	**CR-41**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*2.24*	*2.12*	*1.91*	*1.76*	*1.54*	*1.28*
CR-21	0.23	0.16	0.07	0.00	0.00	69.57	0.73	0.00	0.00	159.61	10.000	**CR-21**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*2.00*	*1.89*	*1.70*	*1.57*	*1.37*	*1.14*
CR-20	0.30	0.11	0.19	0.00	0.00	36.67	0.55	0.00	0.00	158.30	10.000	**CR-20**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*1.96*	*1.86*	*1.67*	*1.54*	*1.35*	*1.12*
CR-38	0.42	0.31	0.11	0.00	0.00	73.81	0.76	0.00	0.00	190.37	10.000	**CR-38**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*3.77*	*3.57*	*3.21*	*2.95*	*2.58*	*2.15*
CR-36	0.26	0.20	0.06	0.00	0.00	76.92	0.77	0.00	0.00	152.99	10.000	**CR-36**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*2.39*	*2.26*	*2.03*	*1.87*	*1.64*	*1.36*
CR-35	0.15	0.12	0.03	0.00	0.00	80.00	0.79	0.00	0.00	124.50	10.000	**CR-35**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*1.41*	*1.33*	*1.20*	*1.10*	*0.96*	*0.80*
CR-37	0.54	0.54	0.00	0.00	0.00	100.00	0.90	0.00	0.00	329.17	10.000	**CR-37**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*5.77*	*5.46*	*4.92*	*4.52*	*3.95*	*3.29*
CR-27	0.19	0.11	0.08	0.00	0.00	57.89	0.67	0.00	0.00	104.64	10.000	**CR-27**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*1.51*	*1.43*	*1.28*	*1.18*	*1.03*	*0.86*
CR-29	0.21	0.15	0.06	0.00	0.00	71.43	0.74	0.00	0.00	197.78	10.000	**CR-29**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*1.85*	*1.75*	*1.58*	*1.45*	*1.27*	*1.06*
CR-30	0.22	0.15	0.07	0.00	0.00	68.18	0.73	0.00	0.00	177.94	10.000	**CR-30**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*1.89*	*1.79*	*1.61*	*1.48*	*1.30*	*1.08*
CR-45	5.08	0.58	4.50	0.00	0.00	11.42	0.41	0.00	0.00	853.42	10.000	**CR-45**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*24.90*	*23.56*	*21.21*	*19.51*	*17.06*	*14.18*
CR-31	0.24	0.19	0.05	0.00	0.00	79.17	0.79	0.00	0.00	173.03	10.000	**CR-31**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*2.24*	*2.12*	*1.91*	*1.75*	*1.53*	*1.28*
CR-8	1.02	1.01	0.01	0.00	0.00	99.02	0.89	0.00	0.00	142.65	10.000	**CR-8**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*10.83*	*10.25*	*9.23*	*8.49*	*7.42*	*6.17*
CR-9	0.56	0.43	0.13	0.00	0.00	76.79	0.77	0.00	0.00	368.70	10.000	**CR-9**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*5.13*	*4.86*	*4.37*	*4.02*	*3.52*	*2.93*
CR-28	0.53	0.33	0.20	0.00	0.00	62.26	0.69	0.00	0.00	341.48	10.000	**CR-28**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*4.36*	*4.12*	*3.71*	*3.42*	*2.99*	*2.48*
CR-34	1.02	0.67	0.35	0.00	0.00	65.69	0.71	0.00	0.00	328.44	10.000	**CR-34**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*8.61*	*8.15*	*7.34*	*6.75*	*5.90*	*4.91*
CR-32	0.85	0.64	0.21	0.00	0.00	75.29	0.76	0.00	0.00	283.25	10.000	**CR-32**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*7.71*	*7.30*	*6.57*	*6.04*	*5.28*	*4.39*
BW8-SE	11.81	2.60	9.21	0.00	0.00	22.02	0.47	0.00	0.00	1394.00	15.489	**BW8-SE**	0.50	3.00	1.50	*9.83*	*9.23*	*8.32*	*7.59*	*6.65*	*5.46*	*54.69*	*51.34*	*46.28*	*42.25*	*36.97*	*30.38*
BW8-SW	17.79	2.72	15.07	0.00	0.00	15.29	0.43	0.00	0.00	1403.86	15.598	**BW8-SW**	0.50	3.00	1.50	*9.80*	*9.20*	*8.29*	*7.57*	*6.62*	*5.44*	*75.66*	*71.02*	*64.02*	*58.43*	*51.14*	*42.02*
SNT01	11.91	4.38	7.53	0.00	0.00	36.78	0.55	0.00	0.00	1512.68	16.808	**SNT01**	0.50	3.00	1.50	*9.46*	*8.86*	*7.99*	*7.28*	*6.38*	*5.23*	*62.20*	*58.30*	*52.56*	*47.91*	*41.93*	*34.38*
TOTAL	**141.93**	**58.40**	**66.01**	**17.25**	**0.00**	**47.83**	**0.61**																				
PROPOSED CONDITIONS:																											
OUTFALL 7 (WHITE OAK BAYOU TRIB. [E127-00-00])																											
AN-1	5.11	1.86	0.56	2.69	0.00	65.35	0.71	0.00	0.00	626.18	10.000	**AN-1**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*42.96*	*40.65*	*36.60*	*33.67*	*29.44*	*24.48*

US 290 / Hempstead Corridor Phase II - Drainage Impact & Mitigation Analysis
Small Watershed Method Hydrologic Calculations

COMP POINT NAME	TOTAL DRAINAGE AREA (AC)	PAVED AREA (AC)	GRASSED AREA (AC)	RESD/COMM DEV. (AC)	INDUSTRIAL DEV. (AC)	INC. % IMPERV.	WGH'T RUNOFF COEFF C	OVERLAND LENGTH (FT)	STRM. SWR LENGTH (FT)	CHAN. LENGTH (FT)	TIME OF CONCEN. TC	COMP POINT NAME	OVERLAND VELOCITY (FPS)	STRM. SWR VELOCITY (FT)	CHAN. VELOCITY (FT)	RAINFALL INTENSITY IN/HR						RUNOFF IN CFS					
																100-YR i IN/HR	50-YR i IN/HR	25-YR i IN/HR	10-YR i IN/HR	5-YR i IN/HR	2-YR i IN/HR	100-YR Q CFS	50-YR Q CFS	25-YR Q CFS	10-YR Q CFS	5-YR Q CFS	2-YR Q CFS
AN-2	6.73	1.89	0.54	4.30	0.00	63.22	0.70	415.46	0.00	356.22	17.807	**AN-2**	0.50	3.00	1.50	*9.19*	*8.61*	*7.76*	*7.07*	*6.19*	*5.06*	*43.08*	*40.34*	*36.37*	*33.11*	*28.99*	*23.72*
AN-3	5.25	1.46	0.36	3.43	0.00	63.74	0.70	0.00	0.00	606.28	10.000	**AN-3**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*43.56*	*41.22*	*37.12*	*34.15*	*29.85*	*24.82*
AN-4	4.20	1.44	0.29	2.47	0.00	66.63	0.72	0.00	0.00	636.17	10.000	**AN-4**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*35.65*	*33.73*	*30.37*	*27.95*	*24.43*	*20.31*
AN-5	1.82	1.50	0.29	0.03	0.00	83.32	0.81	0.00	0.00	393.68	10.000	**AN-5**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*17.46*	*16.52*	*14.88*	*13.69*	*11.97*	*9.95*
AN-6	2.13	1.77	0.34	0.02	0.00	83.62	0.81	0.00	0.00	422.17	10.000	**AN-6**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*20.48*	*19.38*	*17.45*	*16.05*	*14.03*	*11.67*
AN-7	3.66	3.06	0.60	0.00	0.00	83.61	0.81	0.00	0.00	771.12	10.000	**AN-7**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*35.19*	*33.30*	*29.98*	*27.58*	*24.11*	*20.05*
AS-2	2.07	1.72	0.35	0.00	0.00	83.09	0.81	0.00	0.00	401.17	10.000	**AS-2**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*19.83*	*18.77*	*16.90*	*15.55*	*13.59*	*11.30*
AS-3	2.41	2.07	0.34	0.00	0.00	85.89	0.82	0.00	0.00	613.18	10.000	**AS-3**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*23.53*	*22.26*	*20.05*	*18.44*	*16.12*	*13.41*
AS-4	2.41	2.00	0.41	0.00	0.00	82.99	0.81	0.00	0.00	615.82	10.000	**AS-4**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*23.07*	*21.83*	*19.66*	*18.09*	*15.81*	*13.15*
AS-5	2.03	1.81	0.22	0.00	0.00	89.16	0.84	0.00	0.00	525.30	10.000	**AS-5**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*20.25*	*19.16*	*17.26*	*15.88*	*13.88*	*11.54*
AS-6	1.58	1.37	0.21	0.00	0.00	86.71	0.83	0.00	0.00	356.57	10.000	**AS-6**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*15.51*	*14.68*	*13.21*	*12.16*	*10.63*	*8.84*
AS-7	2.24	1.86	0.38	0.00	0.00	83.04	0.81	0.00	0.00	558.99	10.000	**AS-7**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*21.45*	*20.30*	*18.28*	*16.82*	*14.70*	*12.22*
AS-8	1.41	1.17	0.24	0.00	0.00	82.98	0.81	0.00	0.00	285.50	10.000	**AS-8**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*13.50*	*12.77*	*11.50*	*10.58*	*9.25*	*7.69*
A-R1	6.25	0.00	6.25	0.00	0.00	0.00	0.35	0.00	0.00	5116.53	56.850	**A-R1**	0.50	3.00	1.50	*4.79*	*4.38*	*3.96*	*3.51*	*3.09*	*2.42*	*10.48*	*9.58*	*8.67*	*7.68*	*6.75*	*5.29*
BN-1	4.33	2.01	0.44	1.88	0.00	70.30	0.74	0.00	0.00	621.15	10.000	**BN-1**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*37.81*	*35.78*	*32.22*	*29.64*	*25.91*	*21.54*
BN-2	6.02	1.69	0.37	3.96	0.00	64.25	0.70	0.00	0.00	713.24	10.000	**BN-2**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*50.15*	*47.46*	*42.73*	*39.31*	*34.37*	*28.58*
BN-3	5.09	1.59	0.35	3.15	0.00	65.28	0.71	306.87	0.00	284.67	13.392	**BN-3**	0.50	3.00	1.50	*10.50*	*9.89*	*8.91*	*8.16*	*7.13*	*5.89*	*37.82*	*35.60*	*32.08*	*29.37*	*25.69*	*21.20*
BS-1	1.76	1.52	0.24	0.00	0.00	86.36	0.83	0.00	0.00	326.87	10.000	**BS-1**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*17.24*	*16.31*	*14.69*	*13.51*	*11.81*	*9.82*
BS-2	1.94	1.62	0.32	0.00	0.00	83.51	0.81	0.00	0.00	315.08	10.000	**BS-2**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*18.64*	*17.64*	*15.88*	*14.61*	*12.77*	*10.62*
BS-3	2.03	1.72	0.31	0.00	0.00	84.73	0.82	0.00	0.00	339.06	10.000	**BS-3**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*19.67*	*18.61*	*16.75*	*15.42*	*13.48*	*11.21*
BR-1	3.08	0.00	3.08	0.00	0.00	0.00	0.35	0.00	0.00	2610.80	29.009	**BR-1**	0.50	3.00	1.50	*7.12*	*6.61*	*5.96*	*5.37*	*4.71*	*3.79*	*7.68*	*7.12*	*6.43*	*5.79*	*5.08*	*4.09*
TOTAL	**73.55**	**35.13**	**16.49**	**21.93**	**0.00**	**64.16**	**0.70**																				
OUTFALL 8 (BELTWAY 8 SYSTEM [TO WHITE OAK BAYOU TRIB. E139-00-00])																											
ML-03	13.96	11.08	2.88	0.00	0.00	79.37	0.79	0.00	0.00	2698.47	29.983	**ML-03**	0.50	3.00	1.50	*6.99*	*6.48*	*5.85*	*5.27*	*4.62*	*3.71*	*76.78*	*71.16*	*64.26*	*57.84*	*50.72*	*40.77*
BN-4	2.75	1.58	0.29	0.88	0.00	75.05	0.76	0.00	0.00	318.42	10.000	**BN-4**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*24.88*	*23.54*	*21.20*	*19.50*	*17.05*	*14.17*
BN-5	2.89	1.59	0.35	0.95	0.00	73.10	0.75	0.00	0.00	284.09	10.000	**BN-5**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*25.77*	*24.39*	*21.96*	*20.20*	*17.66*	*14.69*
BN-6	4.45	2.61	0.73	1.11	0.00	72.37	0.75	0.00	0.00	628.58	10.000	**BN-6**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*39.49*	*37.36*	*33.64*	*30.95*	*27.06*	*22.50*
BN-7	9.80	2.19	0.75	6.86	0.00	60.85	0.68	0.00	0.00	1036.36	11.515	**BN-7**	0.50	3.00	1.50	*11.21*	*10.58*	*9.53*	*8.75*	*7.65*	*6.34*	*75.02*	*70.82*	*63.78*	*58.55*	*51.20*	*42.42*
BN-8	5.41	1.25	0.42	3.74	0.00	61.13	0.68	0.00	0.00	855.41	10.000	**BN-8**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*43.96*	*41.60*	*37.45*	*34.46*	*30.12*	*25.05*
BS-4	2.27	1.88	0.39	0.00	0.00	82.82	0.81	0.00	0.00	410.88	10.000	**BS-4**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*21.71*	*20.54*	*18.49*	*17.02*	*14.88*	*12.37*
BS-5	1.55	1.27	0.28	0.00	0.00	81.94	0.80	0.00	0.00	315.60	10.000	**BS-5**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*14.73*	*13.94*	*12.55*	*11.55*	*10.10*	*8.39*
BS-6	1.55	1.34	0.21	0.00	0.00	86.45	0.83	0.00	0.00	335.31	10.000	**BS-6**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*15.19*	*14.37*	*12.94*	*11.91*	*10.41*	*8.65*
BS-7	1.58	1.26	0.32	0.00	0.00	79.75	0.79	0.00	0.00	327.88	10.000	**BS-7**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*14.79*	*14.00*	*12.60*	*11.60*	*10.14*	*8.43*
BS-8	4.10	3.50	0.60	0.00	0.00	85.37	0.82	0.00	0.00	1114.99	12.389	**BS-8**	0.50	3.00	1.50	*10.87*	*10.24*	*9.23*	*8.46*	*7.40*	*6.12*	*36.51*	*34.42*	*31.01*	*28.42*	*24.86*	*20.56*
B-R2	1.70	0.00	1.70	0.00	0.00	0.00	0.35	0.00	0.00	1041.46	11.572	**B-R2**	0.50	3.00	1.50	*11.19*	*10.56*	*9.51*	*8.73*	*7.63*	*6.32*	*6.66*	*6.28*	*5.66*	*5.19*	*4.54*	*3.76*
ML-04	9.14	6.84	2.30	0.00	0.00	74.84	0.76	0.00	0.00	1363.53	15.150	**ML-04**	0.50	3.00	1.50	*9.93*	*9.33*	*8.41*	*7.68*	*6.72*	*5.53*	*69.13*	*64.93*	*58.52*	*53.45*	*46.77*	*38.46*
CN-1	6.07	3.08	0.75	2.24	0.00	71.04	0.74	0.00	0.00	744.31	10.000	**CN-1**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*53.31*	*50.44*	*45.42*	*41.79*	*36.53*	*30.38*
CN-2	5.40	1.96	0.51	2.93	0.00	66.14	0.71	257.33	0.00	269.04	11.567	**CN-2**	0.50	3.00	1.50	*11.19*	*10.56*	*9.51*	*8.73*	*7.63*	*6.33*	*43.04*	*40.63*	*36.59*	*33.58*	*29.37*	*24.33*
CN-3	8.23	3.57	0.67	3.99	0.00	70.04	0.73	252.92	0.00	756.99	16.842	**CN-3**	0.50	3.00	1.50	*9.45*	*8.86*	*7.98*	*7.28*	*6.37*	*5.22*	*57.07*	*53.49*	*48.23*	*43.95*	*38.47*	*31.54*
CN-4	5.25	2.91	0.46	1.88	0.00	75.12	0.76	0.00	0.00	608.14	10.000	**CN-4**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*47.51*	*44.96*	*40.48*	*37.24*	*32.56*	*27.07*
CN-5	13.09	4.57	0.97	7.55	0.00	66.63	0.72	0.00	0.00	744.76	10.000	**CN-5**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*111.12*	*105.15*	*94.67*	*87.10*	*76.15*	*63.31*
CN-6	12.07	2.51	1.15	8.41	0.00	59.12	0.67	0.00	0.00	809.46	10.000	**CN-6**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*96.50*	*91.31*	*82.21*	*75.64*	*66.12*	*54.98*
CN-7	7.86	3.16	0.98	3.72	0.00	66.23	0.71	0.00	0.00	505.36	10.000	**CN-7**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*66.54*	*62.96*	*56.69*	*52.16*	*45.60*	*37.91*
CN-8	3.83	1.66	0.51	1.66	0.00	67.25	0.72	0.00	0.00	538.63	10.000	**CN-8**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*32.65*	*30.89*	*27.82*	*25.59*	*22.37*	*18.60*
CN-J13	4.08	0.49	0.06	3.53	0.00	59.60	0.68	0.00	0.00	712.56	10.000	**CN-J13**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*32.73*	*30.97*	*27.88*	*25.65*	*22.42*	*18.65*
CN-J15	3.81	2.31	0.52	0.98	0.00	74.78	0.76	0.00	0.00	520.84	10.000	**CN-J15**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*34.41*	*32.55*	*29.31*	*26.97*	*23.58*	*19.60*
CS-1	3.63	2.48	1.15	0.00	0.00	68.32	0.73	0.00	0.00	849.84	10.000	**CS-1**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*31.28*	*29.59*	*26.65*	*24.52*	*21.43*	*17.82*
CS-2	2.66	2.17	0.49	0.00	0.00	81.58	0.80	0.00	0.00	366.97	10.000	**CS-2**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*25.22*	*23.87*	*21.49*	*19.77*	*17.28*	*14.37*
CS-3	2.53	1.80	0.73	0.00	0.00	71.15	0.74	0.00	0.00	496.46	10.000	**CS-3**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*22.27*	*21.07*	*18.97*	*17.45*	*15.26*	*12.69*
CS-4	3.15	2.27	0.88	0.00	0.00	72.06	0.75	0.00	0.00	428.30	10.000	**CS-4**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*27.91*	*26.41*	*23.78*	*21.88*	*19.13*	*15.90*
CS-5	3.42	2.21	1.21	0.00	0.00	64.62	0.71	0.00	0.00	480.80	10.000	**CS-5**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*28.64*	*27.10*	*24.40*	*22.45*	*19.63*	*16.32*
CS-6	6.72	4.51	2.21	0.00	0.00	67.09	0.72	0.00	0.00	883.49	10.000	**CS-6**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*57.38*	*54.29*	*48.89*	*44.98*	*39.32*	*32.69*
CS-7	7.05	4.44	2.61	0.00	0.00	62.96	0.70	0.00	0.00	810.87	10.000	**CS-7**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*58.29*	*55.16*	*49.67*	*45.69*	*39.95*	*33.21*
CS-8	7.49	3.13	3.04	1.32	0.00	51.48	0.63	0.00	0.00	531.24	10.000	**CS-8**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*56.26*	*53.24*	*47.93*	*44.10*	*38.55*	*32.06*
CS-9	6.53	3.26	1.76	1.51	0.00	62.64	0.69	0.00	0.00	479.94	10.000	**CS-9**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*53.80*	*50.90*	*45.83*	*42.17*	*36.86*	*30.65*
ML-05	6.64	5.85	0.79	0.00	0.00	88.10	0.83	0.00	0.00	2471.55	27.462	**ML-05**	0.50	3.00	1.50	*7.34*	*6.82*	*6.15*	*5.55*	*4.87*	*3.92*	*40.68*	*37.77*	*34.10*	*30.76*	*26.96*	*21.74*
SNT01	14.95	6.04	8.91	0.00	0.00	40.41	0.57	0.00	0.00	1682.52	18.695	**SNT01**	0.50	3.00	1.50	*8.98*	*8.40*	*7.57*	*6.89*	*6.03*	*4.93*	*76.78*	*71.83*	*64.78*	*58.91*	*51.58*	*42.15*
POND-6A	10.03	9.65	0.38	0.00	0.00	96.26	0.88	0.00	0.00	1312.21	14.580	**POND-6A**	0.50	3.00	1.50	*10.11*	*9.50*	*8.56*	*7.83*	*6.85*	*5.64*	*89.12*	*83.76*	*75.49*	*68.99*	*60.37*	*49.70*
POND-7B	12.47	9.20	3.27	0.00	0.00	73.78	0.76	0.00	0.00	867.16	10.000	**POND-7B**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*111.88*	*105.87*	*95.32*	*87.70*	*76.67*	*63.75*
BW8DET	1.21	1.16	0.04	0.00	0.00	96.35	0.88	0.00	0.00	182.61	10.000	**BW8DET**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*12.60*	*11.92*	*10.73*	*9.88*	*8.63*	*7.18*
BW8-SW	15.13	4.70	5.88	4.55	0.00	47.62	0.61	0.00	0.00	2051.48	22.794	**BW8-SW**	0.50	3.00	1.50	*8.11*	*7.56*	*6.82*	*6.18*	*5.41*	*4.39*	*74.99*	*69.88*	*63.06*	*57.11*	*50.03*	*40.62*
BW8-SE	15.61	1.03	3.84	10.74	0.00	44.44	0.59	0.00	0.00	1180.61	13.118	**BW8-SE**	0.50	3.00	1.50	*10.60*	*9.98*	*8.99*	*8.24*	*7.20*	*5.95*	*98.07*	*92.35*	*83.21*	*76.20*	*66.65*	*55.04*
TOTAL	**250.04**	**126.51**	**54.98**	**68.55**	**0.00**	**65.68**	**0.71**																				

US 290 / Hempstead Corridor Phase II - Drainage Impact & Mitigation Analysis
Small Watershed Method Hydrologic Calculations

COMP POINT NAME	TOTAL DRAINAGE AREA (AC)	PAVED AREA (AC)	GRASSED AREA (AC)	RESD/COMM DEV. (AC)	INDUSTRIAL DEV. (AC)	INC. % IMPERV.	WGH'T RUNOFF COEFF C	OVERLAND LENGTH (FT)	STRM. SWR LENGTH (FT)	CHAN. LENGTH (FT)	TIME OF CONCEN. TC	COMP POINT NAME	OVERLAND VELOCITY (FPS)	STRM. SWR VELOCITY (FT)	CHAN. VELOCITY (FT)	RANFALL INTENSITY IN/HR						RUNOFF IN CFS					
																100-YR i IN/HR	50-YR i IN/HR	25-YR i IN/HR	10-YR i IN/HR	5-YR i IN/HR	2-YR i IN/HR	100-YR Q CFS	50-YR Q CFS	25-YR Q CFS	10-YR Q CFS	5-YR Q CFS	2-YR Q CFS
	IMP%>>>	100	0	55	73																						
	C>>>>	0.9	0.35	0.65	0.75																						
EXISTING CONDITIONS:																											
OUTFALLS 8A/8B (BELTWAY 8 SOUTH SYSTEM [TO COLE CREEK E117-00-00])																											
DI-A10	1.70	0.98	0.72	0.00	0.00	57.65	0.67	0.00	0.00	570.00	10.000	**DI-A10**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*13.46*	*12.74*	*11.47*	*10.55*	*9.23*	*7.67*
DI-B10	1.05	0.00	1.05	0.00	0.00	0.00	0.35	50.00	0.00	495.00	10.000	**DI-B10**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*4.35*	*4.12*	*3.71*	*3.41*	*2.98*	*2.48*
Off-B12	23.89	2.81	2.30	18.78	0.00	55.00	0.65	320.00	0.00	1400.00	26.222	**Off-B12**	0.50	3.00	1.50	*7.53*	*7.00*	*6.32*	*5.70*	*5.00*	*4.04*	*116.99*	*108.72*	*98.14*	*88.61*	*77.66*	*62.74*
CI-B9	1.36	0.92	0.44	0.00	0.00	67.87	0.72	86.00	0.00	263.00	10.000	**CI-B9**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*11.65*	*11.03*	*9.93*	*9.13*	*7.98*	*6.64*
CI-A12	1.65	1.36	0.29	0.00	0.00	82.38	0.80	68.00	0.00	341.00	10.000	**CI-A12**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*15.69*	*14.85*	*13.37*	*12.30*	*10.75*	*8.94*
CI-B12	0.20	0.20	0.00	0.00	0.00	100.00	0.90	0.00	0.00	120.00	10.000	**CI-B12**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*2.13*	*2.01*	*1.81*	*1.67*	*1.46*	*1.21*
CI-C5	1.96	0.92	1.04	0.00	0.00	47.03	0.61	0.00	0.00	785.00	10.000	**CI-C5**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*14.13*	*13.37*	*12.04*	*11.08*	*9.69*	*8.05*
SD-2	1.29	0.00	1.29	0.00	0.00	0.00	0.35	0.00	0.00	632.00	10.000	**SD-2**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*5.37*	*5.08*	*4.58*	*4.21*	*3.68*	*3.06*
CI-C7	3.13	1.47	1.66	0.00	0.00	47.04	0.61	87.00	0.00	809.00	11.889	**CI-C7**	0.50	3.00	1.50	*11.06*	*10.43*	*9.40*	*8.62*	*7.54*	*6.24*	*21.04*	*19.85*	*17.88*	*16.40*	*14.34*	*11.88*
CI-D6	7.62	5.50	2.12	0.00	0.00	72.16	0.75	0.00	0.00	1617.00	17.967	**CI-D6**	0.50	3.00	1.50	*9.15*	*8.57*	*7.73*	*7.03*	*6.16*	*5.04*	*52.07*	*48.75*	*43.96*	*40.01*	*35.03*	*28.66*
CI-D9	0.37	0.37	0.00	0.00	0.00	100.00	0.90	0.00	0.00	128.00	10.000	**CI-D9**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*3.99*	*3.77*	*3.40*	*3.12*	*2.73*	*2.27*
CI-E5	0.43	0.43	0.00	0.00	0.00	100.00	0.90	0.00	0.00	131.00	10.000	**CI-E5**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*4.64*	*4.39*	*3.95*	*3.63*	*3.18*	*2.64*
SD-4	2.37	0.79	1.58	0.00	0.00	33.42	0.53	0.00	0.00	920.00	10.222	**SD-4**	0.50	3.00	1.50	*11.77*	*11.13*	*10.02*	*9.22*	*8.06*	*6.70*	*14.87*	*14.07*	*12.66*	*11.65*	*10.18*	*8.46*
DI-L24	1.39	1.27	0.13	0.00	0.00	90.95	0.85	0.00	0.00	320.00	10.000	**DI-L24**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*14.05*	*13.29*	*11.97*	*11.01*	*9.63*	*8.00*
CI-F2	0.72	0.72	0.00	0.00	0.00	100.00	0.90	0.00	0.00	394.00	10.000	**CI-F2**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*7.74*	*7.32*	*6.59*	*6.06*	*5.30*	*4.41*
DI-R12	1.39	1.01	0.38	0.00	0.00	72.53	0.75	0.00	0.00	510.00	10.000	**DI-R12**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*12.39*	*11.73*	*10.56*	*9.71*	*8.49*	*7.06*
CI-R11	1.70	1.18	0.52	0.00	0.00	69.41	0.73	0.00	0.00	588.00	10.000	**CI-R11**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*14.77*	*13.97*	*12.58*	*11.58*	*10.12*	*8.41*
DI-L25	1.53	1.19	0.35	0.00	0.00	77.48	0.78	0.00	0.00	468.00	10.000	**DI-L25**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*14.12*	*13.36*	*12.03*	*11.07*	*9.67*	*8.04*
CI-G3	0.62	0.62	0.00	0.00	0.00	100.00	0.90	0.00	0.00	420.00	10.000	**CI-G3**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*6.62*	*6.27*	*5.64*	*5.19*	*4.54*	*3.77*
CI-A7	0.80	0.49	0.31	0.00	0.00	60.83	0.68	0.00	0.00	300.00	10.000	**CI-A7**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*6.49*	*6.14*	*5.53*	*5.09*	*4.45*	*3.70*
DI-R13	1.12	0.80	0.32	0.00	0.00	71.45	0.74	0.00	0.00	555.00	10.000	**DI-R13**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*9.89*	*9.36*	*8.42*	*7.75*	*6.78*	*5.63*
TOTAL	**56.28**	**23.02**	**14.48**	**18.78**	**0.00**	**59.26**	**0.68**																				
PROPOSED CONDITIONS:																											
OUTFALLS 8A/8B (BELTWAY 8 SOUTH SYSTEM [TO COLE CREEK E117-00-00])																											
POND6F	1.43	1.12	0.31	0.00	0.00	78.31	0.78	75.00	0.00	225.00	10.000	**POND6F**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*13.24*	*12.53*	*11.28*	*10.38*	*9.08*	*7.55*
POND6H	1.40	0.84	0.56	0.00	0.00	59.89	0.68	78.00	0.00	584.00	10.000	**POND6H**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*11.30*	*10.69*	*9.63*	*8.86*	*7.74*	*6.44*
A-1	0.30	0.30	0.00	0.00	0.00	100.00	0.90	0.00	0.00	328.00	10.000	**A-1**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*3.21*	*3.03*	*2.73*	*2.51*	*2.20*	*1.83*
A-2	0.35	0.35	0.00	0.00	0.00	100.00	0.90	0.00	0.00	328.00	10.000	**A-2**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*3.69*	*3.49*	*3.14*	*2.89*	*2.53*	*2.10*
B-1	1.71	0.88	0.83	0.00	0.00	51.38	0.63	0.00	0.00	697.00	10.000	**B-1**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*12.83*	*12.14*	*10.93*	*10.06*	*8.79*	*7.31*
B-1A	1.37	0.69	0.69	0.00	0.00	50.00	0.63	114.00	0.00	292.00	10.000	**B-1A**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*10.18*	*9.63*	*8.67*	*7.98*	*6.98*	*5.80*
BW-C1	4.23	1.97	2.26	0.00	0.00	46.52	0.61	0.00	0.00	458.00	10.000	**BW-C1**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*30.44*	*28.80*	*25.94*	*23.86*	*20.86*	*17.34*
BW-C2	2.29	1.39	0.91	0.00	0.00	60.47	0.68	0.00	0.00	409.00	10.000	**BW-C2**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*18.57*	*17.57*	*15.82*	*14.56*	*12.73*	*10.58*
BW-C3	1.82	1.12	0.69	0.29	0.00	70.47	0.79	0.00	0.00	403.00	10.000	**BW-C3**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*17.08*	*16.16*	*14.55*	*13.39*	*11.71*	*9.73*
BW-C4	0.56	0.56	0.00	0.00	0.00	100.00	0.90	0.00	0.00	252.00	10.000	**BW-C4**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*5.98*	*5.66*	*5.10*	*4.69*	*4.10*	*3.41*
BW-C5	0.36	0.29	0.07	0.00	0.00	81.22	0.80	0.00	0.00	215.00	10.000	**BW-C5**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*3.42*	*3.24*	*2.92*	*2.68*	*2.35*	*1.95*
BW-D1	2.67	1.76	0.91	0.00	0.00	66.02	0.71	0.00	0.00	550.00	10.000	**BW-D1**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*22.59*	*21.37*	*19.24*	*17.70*	*15.48*	*12.87*
BW-D2	2.22	1.74	0.47	0.00	0.00	78.63	0.78	0.00	0.00	516.00	10.000	**BW-D2**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*20.58*	*19.47*	*17.53*	*16.13*	*14.10*	*11.72*
BW-D3	3.21	2.55	0.45	0.21	0.00	83.16	0.81	0.00	0.00	487.00	10.000	**BW-D3**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*30.72*	*29.07*	*26.18*	*24.08*	*21.05*	*17.51*
BW-D4	3.53	2.87	0.66	0.00	0.00	81.30	0.80	0.00	0.00	317.00	10.000	**BW-D4**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*33.41*	*31.61*	*28.46*	*26.19*	*22.89*	*19.03*
BW-D6	0.75	0.63	0.12	0.00	0.00	84.23	0.81	0.00	0.00	373.00	10.000	**BW-D6**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*7.26*	*6.87*	*6.19*	*5.69*	*4.98*	*4.14*
CI-A12	1.65	1.36	0.29	0.00	0.00	82.67	0.80	128.00	0.00	238.00	10.000	**CI-A12**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*15.72*	*14.87*	*13.39*	*12.32*	*10.77*	*8.95*
CI-A7	0.80	0.49	0.31	0.00	0.00	60.83	0.68	0.00	0.00	300.00	10.000	**CI-A7**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*6.49*	*6.14*	*5.53*	*5.09*	*4.45*	*3.70*
CI-B12	0.20	0.20	0.00	0.00	0.00	100.00	0.90	0.00	0.00	120.00	10.000	**CI-B12**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*2.13*	*2.01*	*1.81*	*1.67*	*1.46*	*1.21*
CI-B9	1.23	0.04	0.64	0.54	0.00	27.82	0.50	0.00	0.00	401.00	10.000	**CI-B9**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*7.32*	*6.93*	*6.24*	*5.74*	*5.02*	*4.17*
CI-C7	2.03	0.81	1.22	0.00	0.00	40.12	0.57	0.00	0.00	580.00	10.000	**CI-C7**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*13.76*	*13.02*	*11.72*	*10.79*	*9.43*	*7.84*
CI-D9	0.38	0.38	0.00	0.00	0.00	100.00	0.90	0.00	0.00	100.00	10.000	**CI-D9**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*4.02*	*3.80*	*3.42*	*3.15*	*2.75*	*2.29*
CI-E5	0.43	0.43	0.00	0.00	0.00	100.00	0.90	0.00	0.00	100.00	10.000	**CI-E5**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*4.61*	*4.36*	*3.92*	*3.61*	*3.16*	*2.62*
CI-F2	0.73	0.73	0.00	0.00	0.00	100.00	0.90	0.00	0.00	387.00	10.000	**CI-F2**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*7.77*	*7.35*	*6.62*	*6.09*	*5.32*	*4.43*
CI-G3	0.62	0.62	0.00	0.00	0.00	100.00	0.90	0.00	0.00	420.00	10.000	**CI-G3**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*6.62*	*6.27*	*5.64*	*5.19*	*4.54*	*3.77*
CI-R11	0.84	0.43	0.41	0.00	0.00	51.16	0.63	0.00	0.00	232.00	10.000	**CI-R11**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*6.32*	*5.98*	*5.38*	*4.95*	*4.33*	*3.60*
DI-A10	1.70	0.98	0.72	0.00	0.00	57.65	0.67	0.00	0.00	570.00	10.000	**DI-A10**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*13.46*	*12.74*	*11.47*	*10.55*	*9.23*	*7.67*
DI-B10	1.00	0.00	1.00	0.00	0.00	0.00	0.35	50.00	0.00	495.00	10.000	**DI-B10**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*4.15*	*3.93*	*3.54*	*3.25*	*2.84*	*2.37*
DI-L24	1.39	1.27	0.12	0.00	0.00	91.30	0.85	0.00	0.00	320.00	10.000	**DI-L24**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*14.07*	*13.32*	*11.99*	*11.03*	*9.64*	*8.02*
DI-L25	1.53	1.19	0.34	0.00	0.00	77.68	0.78	0.00	0.00	468.00	10.000	**DI-L25**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*14.14*	*13.38*	*12.04*	*11.08*	*9.69*	*8.05*
DI-R12	1.42	1.22	0.20	0.00	0.00	85.98	0.82	0.00	0.00	510.00	10.000	**DI-R12**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*13.86*	*13.12*	*11.81*	*10.87*	*9.50*	*7.90*
DI-R13	1.12	0.80	0.32	0.00	0.00	71.45	0.74	0.00	0.00	555.00	10.000	**DI-R13**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*9.89*	*9.36*	*8.42*	*7.75*	*6.78*	*5.63*
OFF-B12	10.97	0.00	0.53	10.44	0.00	52.34	0.64	331.00	0.00	870.00	20.700	**OFF-B12**	0.50	3.00	1.50	*8.53*	*7.96*	*7.18*	*6.52*	*5.71*	*4.65*	*59.45*	*55.51*	*50.07*	*45.44*	*39.80*	*32.41*
SD-1A	0.69	0.00	0.69	0.00	0.00	0.00	0.35	0.00	0.00	425.00	10.000	**SD-1A**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*2.87*	*2.72*	*2.45*	*2.25*	*1.97*	*1.64*
SD-2	0.51	0.00	0.51	0.00	0.00	0.00	0.35	0.00	0.00	227.00	10.000	**SD-2**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*2.10*	*1.99*	*1.79*	*1.65*	*1.44*	*1.20*
TOTAL	**57.42**	**30.01**	**16.22**	**11.48**	**0.00**	**63.25**	**0.70**																				

US 290 / Hempstead Corridor Phase II - Drainage Impact & Mitigation Analysis

Small Watershed Method Hydrologic Calculations

1	2	3	4	5	6	7	8	9	10	11	12	13	18	19	20	25	26	27	28	29	30	31	32	33	34	35	36
COMP POINT NAME	TOTAL DRAINAGE AREA (AC)	PAVED AREA (AC)	GRASSED AREA (AC)	RESD/COMM DEV. (AC)	INDUSTRIAL DEV. (AC)	INC. % IMPERV.	WGH'T RUNOFF COEFF C	OVERLAND LENGTH (FT)	STRM. SWR LENGTH (FT)	CHAN. LENGTH (FT)	TIME OF CONCEN. TC	COMP POINT NAME	OVERLAND VELOCITY (FPS)	STRM. SWR VELOCITY (FT)	CHAN. VELOCITY (FT)	RAINFALL INTENSITY IN/HR						RUNOFF IN CFS					
																100-YR i IN/HR	50-YR i IN/HR	25-YR i IN/HR	10-YR i IN/HR	5-YR i IN/HR	2-YR i IN/HR	100-YR Q CFS	50-YR Q CFS	25-YR Q CFS	10-YR Q CFS	5-YR Q CFS	2-YR Q CFS
	IMP%>>>	100	0	55	73																						
	C>>>>	0.9	0.35	0.65	0.75																						
EXISTING CONDITIONS:																											
OUTFALL 9 (COLE CREEK [E117-00-00])																											
CI-36	0.95	0.39	0.56	0.00		41.23	0.58	150.00	0.00	300.00	10.000	CI-36	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	6.48	6.13	5.52	5.08	4.44	3.69
CI-37	0.26	0.12	0.14	0.00		46.77	0.61	188.00	0.00	0.00	10.000	CI-37	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	1.85	1.75	1.58	1.45	1.27	1.05
CI-38+Off	32.90	0.22	5.81	26.88		45.59	0.60	680.00	1560.00	0.00	31.333	CI-38	0.50	3.00	1.50	6.82	6.32	5.71	5.13	4.50	3.61	134.38	124.42	112.38	101.05	88.62	71.12
CI-40	0.29	0.17	0.12	0.00		59.46	0.68	242.00	0.00	0.00	10.000	CI-40	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	2.30	2.17	1.96	1.80	1.57	1.31
CI-43	0.28	0.16	0.12	0.00		57.97	0.67	225.00	0.00	0.00	10.000	CI-43	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	2.19	2.07	1.87	1.72	1.50	1.25
CI-44	0.28	0.28	0.00	0.00		100.00	0.90	448.00	0.00	0.00	14.933	CI-44	0.50	3.00	1.50	10.00	9.39	8.47	7.73	6.77	5.57	2.52	2.37	2.13	1.95	1.71	1.40
CI-46	0.19	0.19	0.00	0.00		100.00	0.90	273.00	0.00	0.00	10.000	CI-46	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	1.98	1.87	1.69	1.55	1.36	1.13
DI-6+Off	11.49	1.45	4.21	5.83		40.53	0.57	575.00	0.00	1580.00	36.722	DI-6	0.50	3.00	1.50	6.23	5.75	5.20	4.65	4.08	3.26	40.90	37.75	34.11	30.56	26.81	21.39
DI-7+Off	2.01	0.94	1.06	0.00		46.99	0.61	130.00	0.00	460.00	10.000	DI-7	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	14.51	13.73	12.36	11.37	9.94	8.27
DI-9+Off	2.52	0.96	1.56	0.00		38.20	0.56	115.00	0.00	360.00	10.000	DI-9	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	16.76	15.86	14.28	13.14	11.49	9.55
DI-12+Off	1.84	0.97	0.87	0.00		52.82	0.64	34.00	0.00	1235.00	14.856	DI-12	0.50	3.00	1.50	10.02	9.42	8.49	7.75	6.78	5.58	11.82	11.10	10.01	9.14	8.00	6.58
CI-48	0.45	0.31	0.14	0.00		69.35	0.73	311.00	0.00	0.00	10.367	CI-48	0.50	3.00	1.50	11.70	11.07	9.97	9.16	8.01	6.66	3.83	3.62	3.26	3.00	2.62	2.18
CI-50+Off	8.72	0.20	0.14	8.38		55.15	0.65	650.00	0.00	0.00	21.667	CI-50	0.50	3.00	1.50	8.33	7.77	7.01	6.36	5.57	4.53	47.29	44.11	39.80	36.09	31.61	25.70
CI-52	0.15	0.08	0.07	0.00		51.70	0.63	130.00	0.00	0.00	10.000	CI-52	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	1.11	1.05	0.94	0.87	0.76	0.63
CI-53	0.41	0.23	0.18	0.00		56.10	0.66	326.00	0.00	0.00	10.867	CI-53	0.50	3.00	1.50	11.48	10.85	9.77	8.98	7.85	6.51	3.10	2.93	2.64	2.42	2.12	1.76
CI-55	0.33	0.19	0.14	0.00		58.28	0.67	267.00	0.00	0.00	10.000	CI-55	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	2.60	2.46	2.21	2.03	1.78	1.48
CI-56A	0.20	0.11	0.09	0.00		56.27	0.66	180.00	0.00	0.00	10.000	CI-56A	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	1.53	1.45	1.30	1.20	1.05	0.87
CI-56B	0.19	0.11	0.08	0.00		56.47	0.66	180.00	0.00	0.00	10.000	CI-56B	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	1.53	1.45	1.30	1.20	1.05	0.87
DI-12C2	30.98	0.00	5.72	25.26		44.84	0.59	400.00	0.00	1540.00	30.444	DI-12C2	0.50	3.00	1.50	6.93	6.42	5.80	5.22	4.58	3.68	127.72	118.32	106.86	96.15	84.32	67.74
DI-12D2	1.43	0.67	0.76	0.00		46.78	0.61	56.00	0.00	715.00	10.000	DI-12D2	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	10.30	9.74	8.77	8.07	7.05	5.87
MHI-22	1.52	1.44	0.08	0.00		94.74	0.87	730.00	0.00	0.00	24.333	MHI-22	0.50	3.00	1.50	7.84	7.29	6.58	5.95	5.22	4.23	10.38	9.66	8.72	7.88	6.91	5.59
MHI-24	0.67	0.62	0.05	0.00		92.24	0.86	338.00	0.00	0.00	11.267	MHI-24	0.50	3.00	1.50	11.31	10.68	9.62	8.83	7.72	6.40	6.52	6.16	5.54	5.09	4.45	3.69
MHI-26	1.25	1.09	0.16	0.00		86.99	0.83	553.00	0.00	0.00	18.433	MHI-26	0.50	3.00	1.50	9.04	8.46	7.63	6.94	6.08	4.97	9.38	8.78	7.92	7.20	6.31	5.16
MHI-28	0.61	0.47	0.14	0.00		77.05	0.77	413.00	0.00	0.00	13.767	MHI-28	0.50	3.00	1.50	10.37	9.76	8.80	8.05	7.04	5.81	4.90	4.61	4.15	3.80	3.32	2.74
MHI-30	0.53	0.38	0.15	0.00		71.93	0.75	290.00	0.00	0.00	10.000	MHI-30	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	4.68	4.42	3.98	3.67	3.20	2.66
MHI-32	0.69	0.48	0.21	0.00		69.99	0.73	362.00	0.00	0.00	12.067	MHI-32	0.50	3.00	1.50	10.99	10.37	9.34	8.56	7.49	6.20	5.54	5.22	4.71	4.32	3.77	3.12
MHI-34	0.52	0.36	0.15	0.00		70.24	0.74	288.00	0.00	0.00	10.000	MHI-34	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	4.54	4.29	3.87	3.56	3.11	2.59
MHI-36	0.92	0.64	0.28	0.00		69.20	0.73	455.00	0.00	0.00	15.167	MHI-36	0.50	3.00	1.50	9.93	9.32	8.40	7.67	6.72	5.52	6.68	6.27	5.65	5.16	4.52	3.71
MHI-37	0.97	0.63	0.33	0.00		65.59	0.71	470.00	0.00	0.00	15.667	MHI-37	0.50	3.00	1.50	9.78	9.18	8.27	7.55	6.61	5.43	6.72	6.30	5.68	5.19	4.54	3.73
CI-34+Off	9.50	0.92	8.58	0.00		9.69	0.40	500.00	0.00	300.00	20.000	CI-34	0.50	3.00	1.50	8.68	8.11	7.31	6.64	5.82	4.74	33.24	31.05	28.01	25.44	22.28	18.17
CI-35+Off	5.35	0.54	4.80	0.00		10.18	0.41	300.00	0.00	390.00	14.333	CI-35	0.50	3.00	1.50	10.19	9.58	8.63	7.89	6.90	5.69	22.11	20.79	18.73	17.13	14.98	12.34
CI-39	0.85	0.37	0.48	0.00		43.26	0.59	335.00	0.00	0.00	11.167	CI-39	0.50	3.00	1.50	11.35	10.72	9.66	8.87	7.76	6.43	5.69	5.38	4.84	4.45	3.89	3.23
CI-41	0.30	0.11	0.19	0.00		36.49	0.55	178.00	0.00	0.00	10.000	CI-41	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	1.94	1.83	1.65	1.52	1.33	1.10
CI-42	0.37	0.35	0.02	0.00		94.19	0.87	428.00	0.00	0.00	14.267	CI-42	0.50	3.00	1.50	10.21	9.60	8.65	7.91	6.92	5.70	3.29	3.10	2.79	2.55	2.23	1.84
CI-45	0.18	0.18	0.00	0.00		100.00	0.90	339.00	0.00	0.00	11.300	CI-45	0.50	3.00	1.50	11.30	10.67	9.61	8.82	7.71	6.40	1.83	1.73	1.55	1.43	1.25	1.03
DI-5+Off	6.72	1.48	5.24	0.00		21.97	0.47	55.00	0.00	1260.00	15.833	DI-5	0.50	3.00	1.50	9.73	9.13	8.23	7.51	6.57	5.40	30.78	28.88	26.04	23.76	20.79	17.08
DI-8+Off	1.74	0.58	1.16	0.00		33.30	0.53	395.00	0.00	0.00	13.167	DI-8	0.50	3.00	1.50	10.58	9.97	8.98	8.22	7.19	5.94	9.84	9.27	8.35	7.65	6.69	5.52
DI-10+Off	1.91	0.57	1.34	0.00		30.05	0.52	647.00	0.00	0.00	21.567	DI-10	0.50	3.00	1.50	8.35	7.79	7.03	6.37	5.58	4.54	8.22	7.66	6.92	6.27	5.49	4.47
DI-11+Off	2.48	1.48	1.00	0.00		59.61	0.68	42.00	0.00	1455.00	17.567	DI-11	0.50	3.00	1.50	9.26	8.67	7.82	7.12	6.23	5.10	15.56	14.58	13.14	11.97	10.48	8.58
CI-47+Off	7.75	0.13	0.10	7.52		55.08	0.65	496.00	0.00	505.00	22.144	CI-47	0.50	3.00	1.50	8.24	7.68	6.93	6.28	5.50	4.47	41.51	38.70	34.92	31.64	27.72	22.53
CI-49	0.60	0.23	0.10	0.27		63.20	0.70	345.00	0.00	0.00	11.500	CI-49	0.50	3.00	1.50	11.22	10.59	9.54	8.75	7.65	6.34	4.66	4.40	3.97	3.64	3.18	2.64
CI-51+Off	1.80	0.23	0.08	1.49		58.58	0.67	503.00	0.00	0.00	16.767	CI-51	0.50	3.00	1.50	9.47	8.87	8.00	7.29	6.38	5.23	11.39	10.68	9.62	8.77	7.68	6.30
CI-54	0.52	0.21	0.07	0.24		65.48	0.71	360.00	600.00	0.00	15.333	CI-54	0.50	3.00	1.50	9.88	9.27	8.36	7.63	6.68	5.49	3.67	3.45	3.11	2.84	2.48	2.04
CI-54A	0.41	0.17	0.05	0.19		66.49	0.71	218.00	0.00	0.00	10.000	CI-54A	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	3.52	3.33	3.00	2.76	2.41	2.00
CI-54B	0.46	0.19	0.07	0.20		65.57	0.71	285.00	0.00	0.00	10.000	CI-54B	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	3.83	3.63	3.27	3.00	2.63	2.18
MHI-21	1.70	1.70	0.00	0.00		100.00	0.90	900.00	0.00	0.00	30.000	MHI-21	0.50	3.00	1.50	6.99	6.48	5.85	5.27	4.62	3.71	10.70	9.91	8.95	8.06	7.06	5.68
MHI-23	0.55	0.50	0.05	0.00		90.22	0.85	315.00	0.00	0.00	10.500	MHI-23	0.50	3.00	1.50	11.64	11.01	9.91	9.11	7.97	6.62	5.46	5.16	4.65	4.27	3.74	3.10
MHI-25	1.14	0.90	0.24	0.00		78.85	0.78	535.00	0.00	0.00	17.833	MHI-25	0.50	3.00	1.50	9.19	8.60	7.76	7.06	6.18	5.06	8.22	7.70	6.94	6.32	5.53	4.53
MHI-27	0.59	0.44	0.15	0.00		74.70	0.76	408.00	0.00	0.00	13.600	MHI-27	0.50	3.00	1.50	10.43	9.82	8.85	8.09	7.08	5.84	4.64	4.37	3.94	3.60	3.15	2.60
MHI-29	0.55	0.39	0.16	0.00		70.32	0.74	307.00	0.00	0.00	10.233	MHI-29	0.50	3.00	1.50	11.76	11.13	10.02	9.21	8.06	6.69	4.78	4.52	4.07	3.75	3.27	2.72
MHI-31	0.72	0.48	0.25	0.00		65.68	0.71	375.00	0.00	0.00	12.500	MHI-31	0.50	3.00	1.50	10.83	10.20	9.19	8.42	7.37	6.09	5.57	5.25	4.73	4.33	3.79	3.13
MHI-33	0.56	0.36	0.20	0.00		64.61	0.71	300.00	0.00	0.00	10.000	MHI-33	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	4.70	4.45	4.01	3.69	3.22	2.68
MHI-35	0.73	0.44	0.30	0.00		59.44	0.68	377.00	0.00	0.00	12.567	MHI-35	0.50	3.00	1.50	10.80	10.18	9.17	8.40	7.35	6.08	5.36	5.05	4.55	4.17	3.65	3.02
MHI-36A	0.56	0.31	0.25	0.00		55.29	0.65	301.00	0.00	0.00	10.033	MHI-36A	0.50	3.00	1.50	11.86	11.22	10.10	9.29	8.12	6.75	4.31	4.07	3.67	3.37	2.95	2.45
MHI-38	1.07	0.70	0.37	0.00		65.12	0.71	150.00	0.00	350.00	10.000	MHI-38	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	9.04	8.55	7.70	7.08	6.19	5.15
MHI-38X	1.50	0.80	0.70	0.00		53.33	0.64	90.00	0.00	226.00	10.000	MHI-38X	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	11.46	10.84	9.76	8.98	7.85	6.53
MHI-37X	1.83	1.14	0.69	0.00		62.30	0.69	280.00	0.00	220.00	11.778	MHI-37X	0.50	3.00	1.50	11.10	10.48	9.44	8.66	7.57	6.27	14.07	13.28	11.96	10.98	9.60	7.95
MHI-56X+OFF	7.56	0.23	4.61	2.73		22.84	0.47	155.00	0.00	800.00	14.056	MHI-56X	0.50	3.00	1.50	10.28	9.67	8.71	7.97	6.97	5.74	36.91	34.71	31.28	28.61	25.03	20.63
CI-54C	0.42	0.18	0.05	0.18		67.49	0.72	209.00	0.00	0.00	10.000	CI-54C	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	3.56	3.36	3.03	2.79	2.44	2.03
CI-54D	0.30	0.12	0.04	0.14		65.48	0.71	207.00	0.00	0.00	10.000	CI-54D	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	2.53	2.39	2.15	1.98	1.73	1.44
GES-1	41.23	0.00	7.59	33.64		44.87	0.59	685.00	1560.00	0.00	31.500	GES-1	0.50	3.00	1.50	6.80	6.30	5.69	5.11	4.48	3.60	166.77	154.40	139.46	125.39	109.96	88.23
TOTAL	205.46	30.28	62.24	112.93		44.97	0.60																				
OUTFALL 10 (GESSNER DR. SYSTEM [TO COLE CREEK])																											
CI-59	0.55	0.43	0.12	0.00		77.67	0.78	304.00	0.00	0.00	10.133	CI-59	0.50	3.00	1.50	11.81	11.17	10.06	9.25	8.09	6.72	5.08	4.81	4.33	3.98	3.48	2.89
CI-59A	0.11	0.11	0.00	0.00		100.00	0.90	96.00	0.00	0.00	10.000	CI-59A	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	1.18	1.11	1.00	0.92	0.81	0.67
CI-62A	0.12	0.12	0.00	0.00		100.00	0.90	92.00	0.00	0.00	10.000	CI-62A	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	1.28	1.21	1.09	1.01	0.88	0.73
CI-62	0.73	0.49	0.24	0.00		66.58	0.72	288.00	0.00	0.00	10.000	CI-62	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	6.21	5.87	5.29	4.87	4.25	3.54
CI-61	0.10	0.05	0.05	0.00		49.02	0.62	99.00	0.00	0.00	10.000	CI-61	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	0.75	0.71	0.64	0.59	0.51	0.43
CI-60	0.26	0.15	0.11	0.00		57.03	0.66	232.00	0.00	0.00	10.000	CI-60	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	2.07	1.96	1.77	1.62	1.42	1.18
CI-66	0.26	0.15	0.11	0.00		56.69	0.66	234.00	0.00	0.00	10.000	CI-66	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	2.08	1.97	1.77	1.63	1.42	1.18
MHI-40	1.71	1.03	0.68	0.00		60.12	0.68	250.00	0.00	385.00	12.611	MHI-40	0.50	3.00	1.50	10.78	10.16	9.16	8.39	7.34	6.07	12.58	11.85	10.68	9.78	8.56	7.07
CI-57	0.61	0.27	0.08	0.27		68.16	0.72	358.00	0.00	0.00	11.933	CI-57	0.50	3.00	1.50	11.04	10.42	9.38	8.61	7.53	6.23	4.88	4.60	4.14	3.80	3.32	2.75

US 290 / Hempstead Corridor Phase II - Drainage Impact & Mitigation Analysis

Small Watershed Method Hydrologic Calculations

1	2	3	4	5	6	7	8	9	10	11	12	13	18	19	20	25	26	27	28	29	30	31	32	33	34	35	36
																RAINFALL INTENSITY IN/HR						RUNOFF IN CFS					
COMP POINT NAME	TOTAL DRAINAGE AREA (AC)	PAVED AREA (AC)	GRASSED AREA (AC)	RESD/COMM DEV. (AC)	INDUSTRIAL DEV. (AC)	INC. % IMPERV.	WGH'T RUNOFF COEFF C	OVERLAND LENGTH (FT)	STRM. SWR LENGTH (FT)	CHAN. LENGTH (FT)	TIME OF CONCEN. TC	COMP POINT NAME	OVERLAND VELOCITY (FPS)	STRM. SWR VELOCITY (FT)	CHAN. VELOCITY (FT)	100-YR i IN/HR	50-YR i IN/HR	25-YR i IN/HR	10-YR i IN/HR	5-YR i IN/HR	2-YR i IN/HR	100-YR Q CFS	50-YR Q CFS	25-YR Q CFS	10-YR Q CFS	5-YR Q CFS	2-YR Q CFS
CI-58	0.38	0.24	0.07	0.08		73.54	0.75	188.00	0.00	0.00	10.000	**CI-58**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*3.43*	*3.25*	*2.93*	*2.69*	*2.35*	*1.96*
CI-64	0.97	0.65	0.32	0.00		66.92	0.72	700.00	1732.00	0.00	32.956	**CI-64**	0.50	3.00	1.50	*6.63*	*6.13*	*5.54*	*4.98*	*4.36*	*3.50*	*4.62*	*4.28*	*3.86*	*3.47*	*3.04*	*2.44*
CI-63	0.65	0.26	0.39	0.00		40.00	0.57	378.00	0.00	0.00	12.600	**CI-63**	0.50	3.00	1.50	*10.79*	*10.17*	*9.16*	*8.39*	*7.34*	*6.07*	*4.00*	*3.77*	*3.39*	*3.11*	*2.72*	*2.25*
CI-65	0.38	0.15	0.23	0.00		39.47	0.57	369.00	0.00	0.00	12.300	**CI-65**	0.50	3.00	1.50	*10.90*	*10.28*	*9.26*	*8.49*	*7.42*	*6.14*	*2.35*	*2.21*	*2.00*	*1.83*	*1.60*	*1.32*
MHI-39	1.72	0.79	0.93	0.00		45.88	0.60	275.00	0.00	388.00	13.478	**MHI-39**	0.50	3.00	1.50	*10.47*	*9.86*	*8.88*	*8.13*	*7.11*	*5.87*	*10.86*	*10.22*	*9.21*	*8.43*	*7.38*	*6.09*
TOTAL	**8.57**	**4.89**	**3.35**	**0.34**		**59.18**	**0.68**																				
OUTFALL 11 (COLE CREEK TRIB. [E117-07-00])																											
CI-68	0.48	0.28	0.20	0.00		58.70	0.67	387.00	0.00	0.00	12.900	**CI-68**	0.50	3.00	1.50	*10.68*	*10.06*	*9.06*	*8.30*	*7.26*	*6.00*	*3.43*	*3.23*	*2.91*	*2.66*	*2.33*	*1.93*
CI-71	0.23	0.17	0.06	0.00		73.93	0.76	192.00	0.00	0.00	10.000	**CI-71**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*2.10*	*1.99*	*1.79*	*1.65*	*1.44*	*1.20*
CI-72	0.28	0.16	0.12	0.00		56.84	0.66	232.00	0.00	0.00	10.000	**CI-72**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*2.21*	*2.10*	*1.89*	*1.74*	*1.52*	*1.26*
CI-74	0.39	0.21	0.18	0.00		53.85	0.65	301.00	0.00	0.00	10.033	**CI-74**	0.50	3.00	1.50	*11.86*	*11.22*	*10.10*	*9.29*	*8.12*	*6.75*	*2.99*	*2.83*	*2.55*	*2.34*	*2.05*	*1.70*
CI-77A	0.42	0.20	0.22	0.00		47.62	0.61	275.00	0.00	0.00	10.000	**CI-77A**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*3.05*	*2.89*	*2.60*	*2.39*	*2.09*	*1.74*
CI-77B	0.60	0.24	0.36	0.00		40.00	0.57	183.00	0.00	0.00	10.000	**CI-77B**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*4.06*	*3.84*	*3.46*	*3.18*	*2.78*	*2.31*
CI-78	0.28	0.08	0.20	0.00		28.57	0.51	192.00	0.00	0.00	10.000	**CI-78**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*1.69*	*1.60*	*1.44*	*1.32*	*1.16*	*0.96*
CI-78A	0.38	0.11	0.27	0.00		28.95	0.51	248.00	0.00	0.00	10.000	**CI-78A**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*2.30*	*2.17*	*1.96*	*1.80*	*1.57*	*1.31*
MHI-42	1.21	0.66	0.55	0.00		54.74	0.65	90.00	0.00	329.00	10.000	**MHI-42**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*9.32*	*8.82*	*7.94*	*7.30*	*6.39*	*5.31*
MHI-44	0.97	0.54	0.43	0.00		55.91	0.66	87.00	0.00	207.00	10.000	**MHI-44**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*7.54*	*7.13*	*6.42*	*5.91*	*5.17*	*4.30*
MHI-45	1.62	0.99	0.62	0.00		61.45	0.69	93.00	0.00	546.00	10.000	**MHI-45**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*13.20*	*12.49*	*11.24*	*10.35*	*9.04*	*7.52*
MHI-47	0.30	0.23	0.07	0.00		77.20	0.77	187.00	0.00	0.00	10.000	**MHI-47**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*2.74*	*2.59*	*2.33*	*2.15*	*1.88*	*1.56*
CI-67	0.55	0.22	0.33	0.00		40.15	0.57	333.00	0.00	0.00	11.100	**CI-67**	0.50	3.00	1.50	*11.38*	*10.75*	*9.68*	*8.89*	*7.78*	*6.45*	*3.56*	*3.36*	*3.03*	*2.78*	*2.43*	*2.02*
CI-69	0.37	0.15	0.22	0.00		40.54	0.57	232.00	0.00	0.00	10.000	**CI-69**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*2.52*	*2.38*	*2.14*	*1.97*	*1.72*	*1.43*
CI-70	0.46	0.19	0.27	0.00		41.48	0.58	280.00	0.00	0.00	10.000	**CI-70**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*3.14*	*2.97*	*2.68*	*2.46*	*2.15*	*1.79*
CI-73	0.56	0.28	0.28	0.00		50.00	0.63	333.00	0.00	0.00	11.100	**CI-73**	0.50	3.00	1.50	*11.38*	*10.75*	*9.68*	*8.89*	*7.78*	*6.45*	*3.98*	*3.76*	*3.39*	*3.11*	*2.72*	*2.26*
CI-73A	0.38	0.17	0.21	0.00		44.74	0.60	243.00	0.00	0.00	10.000	**CI-73A**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*2.69*	*2.54*	*2.29*	*2.11*	*1.84*	*1.53*
CI-75	0.10	0.05	0.05	0.00		50.00	0.63	115.00	0.00	0.00	10.000	**CI-75**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*0.74*	*0.70*	*0.63*	*0.58*	*0.51*	*0.42*
CI-76	0.22	0.13	0.09	0.00		59.09	0.68	269.00	0.00	0.00	10.000	**CI-76**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*1.76*	*1.67*	*1.50*	*1.38*	*1.21*	*1.00*
MHI-41	1.22	0.67	0.55	0.00		54.75	0.65	100.00	0.00	250.00	10.000	**MHI-41**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*9.46*	*8.95*	*8.06*	*7.42*	*6.48*	*5.39*
MHI-43	1.82	1.19	0.63	0.00		65.42	0.71	220.00	0.00	430.00	12.111	**MHI-43**	0.50	3.00	1.50	*10.97*	*10.35*	*9.32*	*8.55*	*7.48*	*6.19*	*14.17*	*13.36*	*12.04*	*11.04*	*9.65*	*7.99*
MHI-46	1.17	0.79	0.38	0.00		67.32	0.72	135.00	0.00	260.00	10.000	**MHI-46**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*10.03*	*9.49*	*8.55*	*7.87*	*6.88*	*5.72*
CI-82	0.57	0.20	0.37	0.00		35.09	0.54	332.00	0.00	0.00	11.067	**CI-82**	0.50	3.00	1.50	*11.40*	*10.77*	*9.70*	*8.90*	*7.79*	*6.46*	*3.53*	*3.33*	*3.00*	*2.76*	*2.41*	*2.00*
CI-82A	0.39	0.12	0.27	0.00		30.77	0.52	245.00	0.00	0.00	10.000	**CI-82A**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*2.40*	*2.27*	*2.05*	*1.88*	*1.65*	*1.37*
MHI-50	1.59	1.03	0.56	0.00		64.77	0.71	300.00	0.00	0.00	10.000	**MHI-50**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*13.33*	*12.62*	*11.36*	*10.45*	*9.14*	*7.60*
MH-B1	10.92	0.00	0.00	10.92		55.00	0.65	583.00	694.00	0.00	23.289	**MH-B1**	0.50	3.00	1.50	*8.02*	*7.47*	*6.74*	*6.10*	*5.35*	*4.34*	*56.95*	*53.05*	*47.87*	*43.33*	*37.97*	*30.80*
MHI-50A	0.38	0.21	0.17	0.00		55.37	0.65	222.00	0.00	0.00	10.000	**MHI-50A**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*2.95*	*2.79*	*2.51*	*2.31*	*2.02*	*1.68*
MHI-48	1.08	0.68	0.40	0.00		63.16	0.70	132.00	0.00	0.00	10.000	**MHI-48**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*8.91*	*8.43*	*7.59*	*6.99*	*6.11*	*5.08*
MHI-49	1.06	0.60	0.46	0.00		56.55	0.66	90.00	0.00	244.00	10.000	**MHI-49**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*8.33*	*7.88*	*7.09*	*6.53*	*5.71*	*4.74*
CI-79	0.20	0.13	0.07	0.00		65.00	0.71	265.00	0.00	0.00	10.000	**CI-79**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*1.68*	*1.59*	*1.43*	*1.32*	*1.15*	*0.96*
CI-80	0.08	0.05	0.03	0.00		62.50	0.69	110.00	0.00	0.00	10.000	**CI-80**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*0.66*	*0.62*	*0.56*	*0.52*	*0.45*	*0.38*
CI-81	0.20	0.14	0.06	0.00		70.85	0.74	215.00	0.00	0.00	10.000	**CI-81**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*1.74*	*1.64*	*1.48*	*1.36*	*1.19*	*0.99*
CI-81A	0.16	0.12	0.04	0.00		76.07	0.77	219.00	0.00	0.00	10.000	**CI-81A**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*1.49*	*1.41*	*1.27*	*1.17*	*1.02*	*0.85*
TOTAL	**30.63**	**11.00**	**8.71**	**10.92**		**55.52**	**0.65**																				
OUTFALL 12 (OUTLET DITCH TO COLE CREEK)																											
CI-84	0.59	0.17	0.42	0.00		29.06	0.51	353.00	0.00	0.00	11.767	**CI-84**	0.50	3.00	1.50	*11.11*	*10.48*	*9.44*	*8.66*	*7.58*	*6.27*	*3.31*	*3.13*	*2.82*	*2.58*	*2.26*	*1.87*
CI-88	0.29	0.08	0.21	0.00		27.21	0.50	200.00	0.00	0.00	10.000	**CI-88**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*1.74*	*1.65*	*1.49*	*1.37*	*1.20*	*0.99*
CI-89	0.49	0.14	0.35	0.00		28.87	0.51	166.00	0.00	0.00	10.000	**CI-89**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*2.93*	*2.77*	*2.50*	*2.30*	*2.01*	*1.67*
CI-90	0.30	0.09	0.21	0.00		30.00	0.52	210.00	0.00	0.00	10.000	**CI-90**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*1.83*	*1.74*	*1.56*	*1.44*	*1.26*	*1.05*
CI-96A	0.67	0.19	0.48	0.00		28.36	0.51	393.00	0.00	0.00	13.100	**CI-96A**	0.50	3.00	1.50	*10.61*	*9.99*	*9.00*	*8.24*	*7.21*	*5.95*	*3.60*	*3.39*	*3.05*	*2.79*	*2.44*	*2.02*
CI-92	0.62	0.19	0.43	0.00		30.65	0.52	250.00	0.00	0.00	10.000	**CI-92**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*3.82*	*3.61*	*3.25*	*2.99*	*2.62*	*2.17*
CI-91	0.37	0.15	0.22	0.00		40.54	0.57	206.00	0.00	0.00	10.000	**CI-91**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*2.52*	*2.38*	*2.14*	*1.97*	*1.72*	*1.43*
MHI-52	1.46	0.84	0.62	0.00		57.66	0.67	85.00	0.00	280.00	10.000	**MHI-52**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*11.54*	*10.92*	*9.83*	*9.04*	*7.91*	*6.57*
MHI-54	0.79	0.49	0.30	0.00		62.22	0.69	90.00	0.00	275.00	10.000	**MHI-54**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*6.47*	*6.12*	*5.51*	*5.07*	*4.43*	*3.69*
MHI-56	0.97	0.62	0.35	0.00		63.66	0.70	90.00	0.00	330.00	10.000	**MHI-56**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*8.10*	*7.66*	*6.90*	*6.35*	*5.55*	*4.61*
CI-83	0.20	0.14	0.06	0.00		70.00	0.74	260.00	0.00	0.00	10.000	**CI-83**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*1.75*	*1.65*	*1.49*	*1.37*	*1.20*	*0.99*
CI-85	0.12	0.08	0.04	0.00		66.67	0.72	163.00	0.00	0.00	10.000	**CI-85**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*1.02*	*0.97*	*0.87*	*0.80*	*0.70*	*0.58*
CI-86	0.20	0.14	0.06	0.00		70.00	0.74	163.00	0.00	0.00	10.000	**CI-86**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*1.75*	*1.65*	*1.49*	*1.37*	*1.20*	*0.99*
CI-87+Off	37.58	0.08	0.04	37.46		55.04	0.65	342.00	2610.00	0.00	25.900	**CI-87**	0.50	3.00	1.50	*7.58*	*7.04*	*6.36*	*5.74*	*5.03*	*4.07*	*185.20*	*172.14*	*155.39*	*140.33*	*122.99*	*99.40*
CI-95A	0.27	0.19	0.08	0.00		70.37	0.74	354.00	0.00	0.00	11.800	**CI-95A**	0.50	3.00	1.50	*11.10*	*10.47*	*9.43*	*8.65*	*7.57*	*6.27*	*2.21*	*2.08*	*1.88*	*1.72*	*1.51*	*1.25*
CI-94	0.24	0.16	0.08	0.00		66.67	0.72	211.00	0.00	0.00	10.000	**CI-94**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*2.04*	*1.93*	*1.74*	*1.60*	*1.40*	*1.16*
CI-93+Off	4.78	0.09	0.04	4.65		55.39	0.65	410.00	0.00	570.00	20.000	**CI-93**	0.50	3.00	1.50	*8.68*	*8.11*	*7.31*	*6.64*	*5.82*	*4.74*	*27.06*	*25.28*	*22.80*	*20.71*	*18.13*	*14.79*
MHI-51	1.32	0.70	0.62	0.00		52.96	0.64	90.00	0.00	230.00	10.000	**MHI-51**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*10.06*	*9.52*	*8.57*	*7.89*	*6.90*	*5.73*
MHI-53	0.79	0.41	0.38	0.00		51.68	0.63	95.00	0.00	156.00	10.000	**MHI-53**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*5.97*	*5.65*	*5.09*	*4.68*	*4.09*	*3.40*
MHI-55	1.56	1.03	0.53	0.00		65.96	0.71	95.00	0.00	325.00	10.000	**MHI-55**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*13.21*	*12.50*	*11.26*	*10.36*	*9.05*	*7.53*
TOTAL	**53.61**	**5.98**	**5.52**	**42.11**		**54.36**	**0.65**																				
OUTFALL 13 (FAIRBANKS N. HOUSTON SYSTEM)																											
CI-96B	0.51	0.19	0.32	0.00		37.25	0.55	298.00	0.00	0.00	10.000	**CI-96B**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*3.36*	*3.18*	*2.86*	*2.63*	*2.30*	*1.91*
CI-98	0.55	0.23	0.32	0.00		41.82	0.58	340.00	0.00	0.00	11.333	**CI-98**	0.50	3.00	1.50	*11.28*	*10.66*	*9.60*	*8.81*	*7.70*	*6.39*	*3.60*	*3.40*	*3.06*	*2.81*	*2.46*	*2.04*
CI-99	0.26	0.12	0.14	0.00		46.15	0.60	196.00	0.00	0.00	10.000	**CI-99**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*1.86*	*1.76*	*1.59*	*1.46*	*1.28*	*1.06*
CI-100	0.59	0.42	0.17	0.00		71.19	0.74	228.00	0.00	0.00	10.000	**CI-100**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*5.19*	*4.91*	*4.43*	*4.07*	*3.56*	*2.96*
MHI-58	2.34	1.45	0.89	0.00		61.96	0.69	320.00	0.00	520.00	16.444	**MHI-58**	0.50	3.00	1.50	*9.56*	*8.96*	*8.08*	*7.37*	*6.45*	*5.29*	*15.45*	*14.49*	*13.06*	*11.91*	*10.42*	*8.55*
MHI-60	0.95	0.71	0.24	0.00		74.92	0.76	330.00	0.00	210.00	13.333	**MHI-60**	0.50	3.00	1.50	*10.52*	*9.91*	*8.93*	*8.17*	*7.15*	*5.90*	*7.60*	*7.16*	*6.45*	*5.90*	*5.16*	*4.26*
CI-95B+OFF	5.82	0.21	0.06	5.55		56.06	0.66	450.00	0.00	0.00	15.000	**CI-95B**	0.50	3.00	1.50	*9.98*	*9.37*	*8.45*	*7.72*	*6.75*	*5.55*	*38.09*	*35.78*	*32.25*	*29.46*	*25.78*	*21.20*
CI-97	0.31	0.22	0.09	0.00		70.97	0.74	320.00	0.00	0.00	10.667	**CI-97**	0.50	3.00	1.50	*11.57*	*10.94*	*9.85*	*9.05*	*7.91*	*6.57*	*2.66*	*2.51*	*2.26*	*2.08*	*1.82*	*1.51*
CI-101	0.34	0.24	0.10	0.00		70.59	0.74	290.00	0.00	0.00	10.000	**CI-101**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*2.98*	*2.82*	*2.54*	*2.34*	*2.04*	*1.70*
CI-102	0.66	0.53	0.13	0.00		80.30	0.79	220.00	0.00	0.00	10.000	**CI-102**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*6.20*	*5.87*	*5.28*	*4.86*	*4.25*	*3.53*

US 290 / Hempstead Corridor Phase II - Drainage Impact & Mitigation Analysis

Small Watershed Method Hydrologic Calculations

1	2	3	4	5	6	7	8	9	10	11	12	13	18	19	20	25	26	27	28	29	30	31	32	33	34	35	36
																RAINFALL INTENSITY IN/HR						RUNOFF IN CFS					
COMP POINT NAME	TOTAL DRAINAGE AREA (AC)	PAVED AREA (AC)	GRASSED AREA (AC)	RESD/COMM DEV. (AC)	INDUSTRIAL DEV. (AC)	INC. % IMPERV.	WGH'T RUNOFF COEFF C	OVERLAND LENGTH (FT)	STRM. SWR LENGTH (FT)	CHAN. LENGTH (FT)	TIME OF CONCEN. TC	COMP POINT NAME	OVERLAND VELOCITY (FPS)	STRM. SWR VELOCITY (FT)	CHAN. VELOCITY (FT)	100-YR i IN/HR	50-YR i IN/HR	25-YR i IN/HR	10-YR i IN/HR	5-YR i IN/HR	2-YR i IN/HR	100-YR Q CFS	50-YR Q CFS	25-YR Q CFS	10-YR Q CFS	5-YR Q CFS	2-YR Q CFS
MHI-57	1.85	1.16	0.69	0.00		62.57	0.69	260.00	0.00	315.00	12.167	**MHI-57**	0.50	3.00	1.50	*10.95*	*10.33*	*9.30*	*8.53*	*7.46*	*6.17*	*14.09*	*13.29*	*11.97*	*10.98*	*9.60*	*7.94*
MHI-59	0.99	0.74	0.25	0.00		74.71	0.76	320.00	0.00	260.00	13.556	**MHI-59**	0.50	3.00	1.50	*10.45*	*9.83*	*8.86*	*8.11*	*7.09*	*5.85*	*7.87*	*7.41*	*6.68*	*6.11*	*5.35*	*4.41*
CI-100B	0.75	0.48	0.27	0.00		64.00	0.70	211.00	0.00	0.00	10.000	**CI-100B**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*6.25*	*5.91*	*5.33*	*4.90*	*4.28*	*3.56*
CI-103	0.48	0.25	0.23	0.00		52.08	0.64	332.00	0.00	0.00	11.067	**CI-103**	0.50	3.00	1.50	*11.40*	*10.77*	*9.70*	*8.90*	*7.79*	*6.46*	*3.48*	*3.29*	*2.96*	*2.72*	*2.38*	*1.97*
CI-104	0.33	0.19	0.14	0.00		57.58	0.67	275.00	0.00	0.00	10.000	**CI-104**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*2.61*	*2.47*	*2.23*	*2.05*	*1.79*	*1.49*
CI-105	0.40	0.23	0.17	0.00		57.50	0.67	230.00	0.00	0.00	10.000	**CI-105**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*3.16*	*2.99*	*2.70*	*2.48*	*2.17*	*1.80*
CI-106	0.23	0.14	0.09	0.00		60.87	0.68	197.00	0.00	0.00	10.000	**CI-106**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*1.87*	*1.77*	*1.59*	*1.47*	*1.28*	*1.07*
MHI-62	1.61	1.04	0.57	0.00		64.43	0.70	300.00	0.00	530.00	15.889	**MHI-62**	0.50	3.00	1.50	*9.71*	*9.11*	*8.22*	*7.50*	*6.56*	*5.39*	*11.04*	*10.36*	*9.34*	*8.52*	*7.46*	*6.13*
MHI-65	0.72	0.39	0.33	0.00		53.90	0.65	80.00	0.00	192.00	10.000	**MHI-65**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*5.55*	*5.25*	*4.73*	*4.35*	*3.81*	*3.16*
MHI-66	0.88	0.58	0.30	0.00		65.71	0.71	220.00	0.00	267.00	10.300	**MHI-66**	0.50	3.00	1.50	*11.73*	*11.10*	*9.99*	*9.19*	*8.03*	*6.68*	*7.37*	*6.97*	*6.27*	*5.77*	*5.04*	*4.19*
CI-102A	0.63	0.52	0.11	0.00		82.54	0.80	240.00	0.00	0.00	10.000	**CI-102A**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*6.01*	*5.69*	*5.12*	*4.71*	*4.12*	*3.43*
CI-107A	0.45	0.26	0.19	0.00		57.78	0.67	375.00	0.00	0.00	12.500	**CI-107A**	0.50	3.00	1.50	*10.83*	*10.20*	*9.19*	*8.42*	*7.37*	*6.09*	*3.25*	*3.07*	*2.76*	*2.53*	*2.21*	*1.83*
CI-107B	0.33	0.19	0.14	0.00		57.58	0.67	184.00	0.00	0.00	10.000	**CI-107B**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*2.61*	*2.47*	*2.23*	*2.05*	*1.79*	*1.49*
CI-108	0.31	0.20	0.11	0.00		64.52	0.70	253.00	0.00	0.00	10.000	**CI-108**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*2.59*	*2.45*	*2.21*	*2.03*	*1.78*	*1.48*
MHI-61	1.56	1.08	0.48	0.00		69.30	0.73	330.00	0.00	460.00	16.111	**MHI-61**	0.50	3.00	1.50	*9.65*	*9.05*	*8.16*	*7.44*	*6.51*	*5.35*	*10.99*	*10.31*	*9.30*	*8.48*	*7.42*	*6.09*
MHI-63	0.61	0.35	0.26	0.00		57.64	0.67	90.00	0.00	142.00	10.000	**MHI-63**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*4.81*	*4.55*	*4.10*	*3.77*	*3.30*	*2.74*
MHI-64	1.18	0.86	0.32	0.00		72.95	0.75	320.00	0.00	340.00	14.444	**MHI-64**	0.50	3.00	1.50	*10.15*	*9.54*	*8.60*	*7.86*	*6.88*	*5.66*	*8.99*	*8.45*	*7.62*	*6.96*	*6.09*	*5.02*
TOTAL	**25.65**	**12.98**	**7.12**	**5.55**		**62.51**	**0.69**																				
OUTFALL 14 (OUTLET DITCH TO COLE CREEK)																											
CI-109	0.22	0.14	0.08	0.00		63.93	0.70	187.00	0.00	0.00	10.000	**CI-109**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*1.82*	*1.73*	*1.55*	*1.43*	*1.25*	*1.04*
CI-110	0.28	0.14	0.14	0.00		50.00	0.63	266.00	0.00	0.00	10.000	**CI-110**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*2.08*	*1.97*	*1.77*	*1.63*	*1.42*	*1.18*
CI-111	0.28	0.14	0.14	0.00		50.72	0.63	266.00	0.00	0.00	10.000	**CI-111**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*2.06*	*1.95*	*1.76*	*1.62*	*1.41*	*1.17*
CI-114	0.33	0.17	0.16	0.00		50.81	0.63	218.00	0.00	0.00	10.000	**CI-114**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*2.50*	*2.37*	*2.13*	*1.96*	*1.71*	*1.42*
CI-115	0.17	0.09	0.08	0.00		52.94	0.64	183.00	0.00	0.00	10.000	**CI-115**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*1.29*	*1.22*	*1.10*	*1.01*	*0.89*	*0.74*
CI-118	0.22	0.11	0.11	0.00		50.00	0.63	215.00	0.00	0.00	10.000	**CI-118**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*1.63*	*1.54*	*1.39*	*1.28*	*1.12*	*0.93*
CI-119	0.33	0.17	0.16	0.00		51.52	0.63	175.00	0.00	0.00	10.000	**CI-119**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*2.48*	*2.35*	*2.11*	*1.94*	*1.70*	*1.41*
CI-120	0.21	0.11	0.10	0.00		52.38	0.64	205.00	0.00	0.00	10.000	**CI-120**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*1.59*	*1.51*	*1.36*	*1.25*	*1.09*	*0.91*
CI-125	0.30	0.15	0.15	0.00		50.85	0.63	284.00	0.00	0.00	10.000	**CI-125**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*2.21*	*2.09*	*1.88*	*1.73*	*1.51*	*1.26*
CI-128	0.33	0.17	0.16	0.00		51.99	0.64	218.00	0.00	0.00	10.000	**CI-128**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*2.47*	*2.34*	*2.10*	*1.94*	*1.69*	*1.41*
CI-129	0.07	0.03	0.04	0.00		45.45	0.60	81.00	0.00	0.00	10.000	**CI-129**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*0.47*	*0.44*	*0.40*	*0.37*	*0.32*	*0.27*
MHI-68	1.10	0.74	0.36	0.00		67.35	0.72	200.00	0.00	320.00	10.222	**MHI-68**	0.50	3.00	1.50	*11.77*	*11.13*	*10.02*	*9.22*	*8.06*	*6.70*	*9.32*	*8.81*	*7.93*	*7.30*	*6.38*	*5.30*
MHI-70	1.20	0.59	0.61	0.00		49.19	0.62	88.00	0.00	250.00	10.000	**MHI-70**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*8.84*	*8.36*	*7.53*	*6.93*	*6.06*	*5.03*
MHI-72	1.78	0.89	0.89	0.00		49.92	0.62	90.00	0.00	373.00	10.000	**MHI-72**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*13.22*	*12.51*	*11.26*	*10.36*	*9.06*	*7.53*
MHI-74	0.69	0.40	0.29	0.00		57.81	0.67	88.00	0.00	255.00	10.000	**MHI-74**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*5.49*	*5.19*	*4.67*	*4.30*	*3.76*	*3.13*
MHI-76	1.60	0.94	0.66	0.00		58.85	0.67	260.00	0.00	365.00	12.722	**MHI-76**	0.50	3.00	1.50	*10.74*	*10.12*	*9.12*	*8.36*	*7.31*	*6.04*	*11.56*	*10.89*	*9.81*	*8.99*	*7.86*	*6.50*
CI-112A	0.45	0.28	0.17	0.00		62.22	0.69	364.00	0.00	0.00	12.133	**CI-112A**	0.50	3.00	1.50	*10.96*	*10.34*	*9.31*	*8.54*	*7.47*	*6.18*	*3.42*	*3.22*	*2.90*	*2.66*	*2.33*	*1.93*
CI-112B+OFF	7.56	0.11	5.90	1.55		12.73	0.42	245.00	0.00	675.00	15.667	**CI-112B**	0.50	3.00	1.50	*9.78*	*9.18*	*8.27*	*7.55*	*6.61*	*5.43*	*31.01*	*29.11*	*26.24*	*23.94*	*20.95*	*17.22*
CI-113	0.20	0.10	0.10	0.00		50.00	0.63	206.00	0.00	0.00	10.000	**CI-113**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*1.48*	*1.40*	*1.26*	*1.16*	*1.02*	*0.85*
CI-116	0.33	0.17	0.16	0.00		52.15	0.64	229.00	0.00	0.00	10.000	**CI-116**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*2.46*	*2.33*	*2.10*	*1.93*	*1.69*	*1.40*
CI-117	0.17	0.09	0.08	0.00		52.94	0.64	178.00	0.00	0.00	10.000	**CI-117**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*1.29*	*1.22*	*1.10*	*1.01*	*0.89*	*0.74*
CI-121	0.27	0.14	0.13	0.00		51.85	0.64	274.00	0.00	0.00	10.000	**CI-121**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*2.04*	*1.93*	*1.73*	*1.60*	*1.40*	*1.16*
CI-122+OFF	5.94	0.23	4.92	0.79		11.19	0.41	790.00	0.00	0.00	26.333	**CI-122**	0.50	3.00	1.50	*7.51*	*6.98*	*6.30*	*5.69*	*4.99*	*4.03*	*18.35*	*17.05*	*15.39*	*13.89*	*12.18*	*9.84*
DI-15+OFF	5.25	0.01	3.19	2.05		21.65	0.47	200.00	0.00	870.00	16.333	**DI-15**	0.50	3.00	1.50	*9.59*	*8.99*	*8.11*	*7.39*	*6.47*	*5.31*	*23.56*	*22.09*	*19.92*	*18.16*	*15.90*	*13.05*
CI-124	0.29	0.15	0.14	0.00		51.72	0.63	286.00	0.00	0.00	10.000	**CI-124**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*2.18*	*2.07*	*1.86*	*1.71*	*1.50*	*1.24*
CI-127	0.31	0.16	0.15	0.00		51.61	0.63	223.00	0.00	0.00	10.000	**CI-127**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*2.33*	*2.21*	*1.99*	*1.83*	*1.60*	*1.33*
CI-126	0.08	0.04	0.04	0.00		50.00	0.63	103.00	0.00	0.00	10.000	**CI-126**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*0.59*	*0.56*	*0.51*	*0.47*	*0.41*	*0.34*
MHI-67	0.88	0.48	0.40	0.00		54.63	0.65	321.00	0.00	0.00	10.700	**MHI-67**	0.50	3.00	1.50	*11.55*	*10.92*	*9.83*	*9.04*	*7.90*	*6.56*	*6.60*	*6.24*	*5.62*	*5.17*	*4.52*	*3.75*
MHI-69	1.20	0.75	0.45	0.00		62.33	0.69	90.00	0.00	250.00	10.000	**MHI-69**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*9.90*	*9.36*	*8.43*	*7.76*	*6.78*	*5.64*
MHI-71	1.79	1.00	0.79	0.00		55.78	0.66	90.00	0.00	332.00	10.000	**MHI-71**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*13.98*	*13.23*	*11.91*	*10.96*	*9.58*	*7.96*
MHI-73	0.69	0.36	0.33	0.00		51.86	0.64	88.00	0.00	240.00	10.000	**MHI-73**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*5.24*	*4.95*	*4.46*	*4.10*	*3.59*	*2.98*
MHI-75	1.72	1.04	0.68	0.00		60.62	0.68	200.00	0.00	300.00	10.000	**MHI-75**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*13.92*	*13.17*	*11.86*	*10.91*	*9.54*	*7.93*
MH-24	16.47	0.00	3.41	13.06		43.61	0.59	638.00	115.00	1508.00	38.661	**MH-24**	0.50	3.00	1.50	*6.05*	*5.57*	*5.04*	*4.51*	*3.96*	*3.15*	*58.53*	*53.96*	*48.77*	*43.64*	*38.29*	*30.48*
TOTAL	**52.70**	**10.09**	**25.16**	**17.45**		**37.36**	**0.55**																				
OUTFALL 15 (OUTLET DITCH TO COLE CREEK)																											
CI-130	0.38	0.19	0.19	0.00		50.00	0.63	364.00	0.00	0.00	12.133	**CI-130**	0.50	3.00	1.50	*10.96*	*10.34*	*9.31*	*8.54*	*7.47*	*6.18*	*2.60*	*2.46*	*2.21*	*2.03*	*1.77*	*1.47*
CI-131	0.42	0.28	0.14	0.00		66.67	0.72	269.00	0.00	0.00	10.000	**CI-131**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*3.57*	*3.38*	*3.04*	*2.80*	*2.45*	*2.04*
CI-132	0.35	0.21	0.14	0.00		60.00	0.68	178.00	0.00	0.00	10.000	**CI-132**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*2.83*	*2.67*	*2.41*	*2.21*	*1.94*	*1.61*
CI-137	0.34	0.20	0.14	0.00		58.82	0.67	287.00	0.00	0.00	10.000	**CI-137**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*2.72*	*2.57*	*2.32*	*2.13*	*1.86*	*1.55*
CI-138	0.45	0.26	0.19	0.00		57.78	0.67	366.00	0.00	0.00	12.200	**CI-138**	0.50	3.00	1.50	*10.94*	*10.32*	*9.29*	*8.52*	*7.45*	*6.17*	*3.29*	*3.10*	*2.79*	*2.56*	*2.24*	*1.85*
CI-139	0.27	0.16	0.11	0.00		59.26	0.68	234.00	0.00	0.00	10.000	**CI-139**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*2.17*	*2.05*	*1.85*	*1.70*	*1.48*	*1.23*
CI-140	0.27	0.16	0.11	0.00		59.26	0.68	223.00	0.00	0.00	10.000	**CI-140**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*2.17*	*2.05*	*1.85*	*1.70*	*1.48*	*1.23*
CI-141	0.48	0.37	0.11	0.00		77.08	0.77	232.00	0.00	0.00	10.000	**CI-141**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*4.41*	*4.17*	*3.76*	*3.46*	*3.02*	*2.51*
CI-146	0.55	0.45	0.10	0.00		81.82	0.80	282.00	0.00	0.00	10.000	**CI-146**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*5.22*	*4.94*	*4.45*	*4.09*	*3.58*	*2.98*
CI-147	0.34	0.20	0.14	0.00		58.82	0.67	280.00	0.00	0.00	10.000	**CI-147**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*2.72*	*2.57*	*2.32*	*2.13*	*1.86*	*1.55*
MHI-78	1.60	1.00	0.60	0.00		62.48	0.69	255.00	0.00	305.00	11.889	**MHI-78**	0.50	3.00	1.50	*11.06*	*10.43*	*9.40*	*8.62*	*7.54*	*6.24*	*12.28*	*11.58*	*10.43*	*9.57*	*8.37*	*6.93*
MHI-79	2.31	1.36	0.95	0.00		58.87	0.67	355.00	785.00	0.00	16.194	**MHI-79**	0.50	3.00	1.50	*9.63*	*9.03*	*8.14*	*7.42*	*6.50*	*5.33*	*14.98*	*14.05*	*12.67*	*11.56*	*10.11*	*8.30*
CI-133	0.37	0.19	0.18	0.00		51.35	0.63	365.00	0.00	0.00	12.167	**CI-133**	0.50	3.00	1.50	*10.95*	*10.33*	*9.30*	*8.53*	*7.46*	*6.17*	*2.56*	*2.42*	*2.18*	*2.00*	*1.75*	*1.44*
CI-134	0.44	0.30	0.14	0.00		68.18	0.73	275.00	0.00	0.00	10.000	**CI-134**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*3.79*	*3.58*	*3.23*	*2.97*	*2.60*	*2.16*
CI-135+OFF	6.03	0.27	4.13	1.63		19.34	0.46	575.00	0.00	0.00	19.167	**CI-135**	0.50	3.00	1.50	*8.87*	*8.29*	*7.48*	*6.80*	*5.95*	*4.86*	*24.36*	*22.78*	*20.55*	*18.68*	*16.35*	*13.35*
CI-136	0.33	0.20	0.13	0.00		60.61	0.68	282.00	0.00	0.00	10.000	**CI-136**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*2.68*	*2.53*	*2.28*	*2.10*	*1.83*	*1.53*
CI-142	0.44	0.32	0.12	0.00		72.73	0.75	372.00	0.00	0.00	12.400	**CI-142**	0.50	3.00	1.50	*10.86*	*10.24*	*9.23*	*8.46*	*7.40*	*6.12*	*3.58*	*3.38*	*3.04*	*2.79*	*2.44*	*2.02*
CI-143	0.69	0.67	0.02	0.00		97.10	0.88	207.00	0.00	0.00	10.000	**CI-143**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*7.24*	*6.85*	*6.17*	*5.68*	*4.96*	*4.13*
CI-144	0.62	0.44	0.18	0.00		70.97	0.74	215.00	0.00	0.00	10.000	**CI-144**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*5.45*	*5.16*	*4.64*	*4.27*	*3.73*	*3.10*
CI-145	0.09	0.05	0.04	0.00		55.56	0.66	94.00	0.00	0.00	10.000	**CI-145**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*0.70*	*0.66*	*0.60*	*0.55*	*0.48*	*0.40*

US 290 / Hempstead Corridor Phase II - Drainage Impact & Mitigation Analysis
Small Watershed Method Hydrologic Calculations

1	2	3	4	5	6	7	8	9	10	11	12	13	18	19	20	25	26	27	28	29	30	31	32	33	34	35	36
																RAINFALL INTENSITY IN/HR						RUNOFF IN CFS					
COMP POINT NAME	TOTAL DRAINAGE AREA (AC)	PAVED AREA (AC)	GRASSED AREA (AC)	RESD/COMM DEV. (AC)	INDUSTRIAL DEV. (AC)	INC. % IMPERV.	WGH'T RUNOFF COEFF C	OVERLAND LENGTH (FT)	STRM. SWR LENGTH (FT)	CHAN. LENGTH (FT)	TIME OF CONCEN. TC	COMP POINT NAME	OVERLAND VELOCITY (FPS)	STRM. SWR VELOCITY (FT)	CHAN. VELOCITY (FT)	100-YR i IN/HR	50-YR i IN/HR	25-YR i IN/HR	10-YR i IN/HR	5-YR i IN/HR	2-YR i IN/HR	100-YR Q CFS	50-YR Q CFS	25-YR Q CFS	10-YR Q CFS	5-YR Q CFS	2-YR Q CFS
MHI-77	1.81	1.14	0.67	0.00		62.87	0.70	280.00	0.00	200.00	11.556	MHI-77	0.50	3.00	1.50	11.19	10.57	9.52	8.73	7.64	6.33	14.12	13.33	12.01	11.02	9.64	7.98
MHI-80	1.76	1.14	0.62	0.00		64.77	0.71	220.00	0.00	530.00	13.222	MHI-80	0.50	3.00	1.50	10.56	9.95	8.96	8.20	7.18	5.93	13.13	12.36	11.14	10.20	8.92	7.37
F-OFFSITE	133.75	0.00	7.79	125.96		51.80	0.63	380.00	4490.00	0.00	37.611	F-OFFSITE	0.50	3.00	1.50	6.14	5.67	5.12	4.59	4.02	3.21	519.74	479.40	433.28	387.91	340.39	271.26
TOTAL	154.09	9.56	16.94	127.59		51.74	0.63																				
OUTFALL 16 (HOLLISTER DR. SYSTEM)																											
CI-150	0.46	0.27	0.19	0.00		58.70	0.67	370.00	0.00	0.00	12.333	CI-150	0.50	3.00	1.50	10.89	10.27	9.25	8.48	7.41	6.13	3.37	3.18	2.86	2.62	2.29	1.90
CI-152	0.38	0.22	0.16	0.00		57.89	0.67	302.00	0.00	0.00	10.067	CI-152	0.50	3.00	1.50	11.84	11.20	10.09	9.28	8.11	6.74	3.01	2.85	2.56	2.36	2.06	1.71
CI-153	0.56	0.37	0.19	0.00		66.07	0.71	212.00	0.00	0.00	10.000	CI-153	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	4.74	4.49	4.04	3.72	3.25	2.70
CI-158+OFF	1.86	0.40	0.27	1.19		56.69	0.66	400.00	0.00	0.00	13.333	CI-158	0.50	3.00	1.50	10.52	9.91	8.93	8.17	7.15	5.90	12.92	12.17	10.96	10.04	8.78	7.25
CI-159+OFF	1.92	0.25	0.25	1.42		53.70	0.64	310.00	210.00	0.00	11.500	CI-159	0.50	3.00	1.50	11.22	10.59	9.54	8.75	7.65	6.34	13.86	13.08	11.78	10.81	9.46	7.84
CI-161+OFF	0.65	0.08	0.07	0.50		54.61	0.65	256.00	44.00	0.00	10.000	CI-161	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	4.98	4.72	4.25	3.91	3.42	2.84
MHI-82	2.14	1.25	0.89	0.00		58.52	0.67	230.00	0.00	520.00	13.444	MHI-82	0.50	3.00	1.50	10.48	9.87	8.89	8.14	7.12	5.88	15.05	14.16	12.76	11.68	10.22	8.43
MHI-84	1.31	0.80	0.51	0.00		61.24	0.69	240.00	0.00	425.00	12.722	MHI-84	0.50	3.00	1.50	10.74	10.12	9.12	8.36	7.31	6.04	9.64	9.08	8.18	7.50	6.56	5.42
MHI-86	2.22	1.45	0.77	0.00		65.22	0.71	260.00	0.00	415.00	13.278	MHI-86	0.50	3.00	1.50	10.54	9.93	8.94	8.19	7.16	5.91	16.61	15.64	14.09	12.90	11.29	9.32
CI-148+OFF	3.17	0.27	0.19	2.71		55.54	0.65	678.00	0.00	0.00	22.600	CI-148	0.50	3.00	1.50	8.15	7.60	6.85	6.21	5.44	4.42	16.88	15.73	14.19	12.86	11.26	9.15
CI-149+OFF	2.27	0.19	0.13	1.95		55.62	0.65	610.00	0.00	0.00	20.333	CI-149	0.50	3.00	1.50	8.61	8.04	7.25	6.58	5.76	4.70	12.77	11.93	10.76	9.77	8.56	6.97
CI-151+OFF	4.02	0.26	0.12	3.64		56.27	0.66	775.00	0.00	0.00	25.833	CI-151	0.50	3.00	1.50	7.59	7.05	6.37	5.75	5.04	4.07	20.05	18.64	16.83	15.20	13.32	10.76
CI-154+OFF	3.18	0.24	0.15	2.79		55.80	0.65	830.00	0.00	0.00	27.667	CI-154	0.50	3.00	1.50	7.31	6.79	6.13	5.53	4.84	3.91	15.22	14.13	12.76	11.50	10.09	8.13
CI-155+OFF	2.49	0.44	0.18	1.87		58.98	0.67	566.00	0.00	0.00	18.867	CI-155	0.50	3.00	1.50	8.94	8.36	7.54	6.85	6.00	4.90	14.96	14.00	12.62	11.48	10.05	8.21
CI-155A	0.06	0.06	0.00	0.00		100.00	0.90	226.00	0.00	0.00	10.000	CI-155A	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	0.64	0.61	0.55	0.50	0.44	0.37
CI-155B	0.05	0.05	0.00	0.00		100.00	0.90	225.00	0.00	0.00	10.000	CI-155B	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	0.53	0.51	0.46	0.42	0.37	0.30
CI-156+OFF	2.01	0.43	0.18	1.40		59.70	0.68	432.00	0.00	0.00	14.400	CI-156	0.50	3.00	1.50	10.17	9.56	8.61	7.87	6.89	5.67	13.83	13.00	11.71	10.71	9.37	7.72
CI-157+OFF	1.32	0.17	0.11	1.04		56.21	0.66	430.00	0.00	0.00	14.333	CI-157	0.50	3.00	1.50	10.19	9.58	8.63	7.89	6.90	5.69	8.84	8.31	7.49	6.85	5.99	4.93
CI-160+OFF	1.57	0.29	0.12	1.17		59.01	0.67	432.00	0.00	0.00	14.400	CI-160	0.50	3.00	1.50	10.17	9.56	8.61	7.87	6.89	5.67	10.76	10.12	9.12	8.34	7.29	6.01
MHI-81	2.53	1.45	1.08	0.00		57.32	0.67	230.00	0.00	640.00	14.778	MHI-81	0.50	3.00	1.50	10.05	9.44	8.51	7.77	6.80	5.60	16.91	15.89	14.32	13.08	11.45	9.42
MHI-83	1.16	0.76	0.40	0.00		65.38	0.71	240.00	0.00	390.00	12.333	MHI-83	0.50	3.00	1.50	10.89	10.27	9.25	8.48	7.41	6.13	8.98	8.47	7.63	6.99	6.12	5.06
MHI-85	2.24	1.49	0.75	0.00		66.52	0.72	270.00	0.00	400.00	13.444	MHI-85	0.50	3.00	1.50	10.48	9.87	8.89	8.14	7.12	5.88	16.81	15.83	14.26	13.05	11.42	9.42
G-3	55.33	0.00	0.00	55.33		55.00	0.65	750.00	2357.00	0.00	38.094	G-3	0.50	3.00	1.50	6.10	5.62	5.08	4.55	3.99	3.18	219.29	202.22	182.77	163.58	143.55	114.34
TOTAL	92.90	11.19	6.71	75.00		56.45	0.66																				
PROPOSED CONDITIONS:																											
OUTFALL 9 (COLE CREEK [E117-00-00])																											
A-2	1.42	1.15	0.26	0.00		81.32	0.80	413.00	0.00	0.00	13.767	A-2	0.50	3.00	1.50	10.37	9.76	8.80	8.05	7.04	5.81	11.72	11.03	9.93	9.09	7.95	6.56
A-3	0.49	0.40	0.08	0.00		82.70	0.80	288.00	0.00	0.00	10.000	A-3	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	4.67	4.42	3.98	3.66	3.20	2.66
A-4	0.92	0.79	0.13	0.00		85.66	0.82	367.00	0.00	0.00	12.233	A-4	0.50	3.00	1.50	10.93	10.30	9.28	8.51	7.44	6.16	8.27	7.80	7.03	6.44	5.64	4.66
A-5	0.77	0.65	0.12	0.00		84.30	0.81	333.00	0.00	0.00	11.100	A-5	0.50	3.00	1.50	11.38	10.75	9.68	8.89	7.78	6.45	7.14	6.75	6.07	5.58	4.88	4.05
A-5OFF	32.52	0.00	5.64	26.88		45.46	0.60	680.00	1560.00	0.00	31.333	A-5OFF	0.50	3.00	1.50	6.82	6.32	5.71	5.13	4.50	3.61	132.65	122.82	110.93	99.75	87.48	70.20
A-6	0.76	0.63	0.13	0.00		83.09	0.81	333.00	0.00	0.00	11.100	A-6	0.50	3.00	1.50	11.38	10.75	9.68	8.89	7.78	6.45	7.01	6.62	5.96	5.48	4.79	3.97
A-7	0.75	0.64	0.11	0.00		84.85	0.82	331.00	0.00	0.00	11.033	A-7	0.50	3.00	1.50	11.41	10.78	9.71	8.92	7.80	6.47	6.97	6.59	5.93	5.45	4.77	3.95
A-8	11.92	1.79	4.31	5.82		41.88	0.58	575.00	0.00	1580.00	36.722	A-8	0.50	3.00	1.50	6.23	5.75	5.20	4.65	4.08	3.26	42.99	39.67	35.85	32.12	28.18	22.48
A-9	0.93	0.89	0.04	0.00		95.24	0.87	155.00	0.00	218.00	10.000	A-9	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	9.66	9.14	8.23	7.57	6.62	5.51
POND6C	4.22	3.37	0.85	0.00		79.96	0.79	260.00	0.00	345.00	12.500	POND6C	0.50	3.00	1.50	10.83	10.20	9.19	8.42	7.37	6.09	36.05	33.98	30.61	28.06	24.54	20.29
A-12	0.75	0.70	0.04	0.00		94.11	0.87	160.00	0.00	170.00	10.000	A-12	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	7.69	7.28	6.55	6.03	5.27	4.38
A-13	2.72	1.78	0.95	0.00		65.30	0.71	34.00	0.00	1235.00	14.856	A-13	0.50	3.00	1.50	10.02	9.42	8.49	7.75	6.78	5.58	19.35	18.18	16.39	14.97	13.10	10.78
A-14	1.01	0.83	0.17	0.00		82.99	0.81	286.00	0.00	0.00	10.000	A-14	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	9.62	9.10	8.20	7.54	6.59	5.48
A-15	0.60	0.51	0.09	0.00		85.02	0.82	290.00	0.00	0.00	10.000	A-15	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	5.85	5.54	4.99	4.59	4.01	3.33
A-17	0.69	0.59	0.10	0.00		84.93	0.82	310.00	0.00	0.00	10.333	A-17	0.50	3.00	1.50	11.72	11.08	9.98	9.18	8.02	6.67	6.62	6.26	5.63	5.18	4.53	3.76
A-17OFF	8.38	0.00	0.00	8.38		55.00	0.65	650.00	0.00	0.00	21.667	A-17OFF	0.50	3.00	1.50	8.33	7.77	7.01	6.36	5.57	4.53	45.39	42.34	38.20	34.63	30.33	24.67
A-18	0.70	0.59	0.11	0.00		84.93	0.82	318.00	0.00	0.00	10.600	A-18	0.50	3.00	1.50	11.60	10.96	9.87	9.08	7.93	6.59	6.64	6.28	5.65	5.19	4.54	3.77
A-19	0.76	0.65	0.11	0.00		84.94	0.82	330.00	0.00	0.00	11.000	A-19	0.50	3.00	1.50	11.43	10.79	9.72	8.93	7.81	6.48	7.12	6.73	6.06	5.56	4.87	4.04
A-20	0.51	0.44	0.08	0.00		84.93	0.82	271.00	0.00	0.00	10.000	A-20	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	4.98	4.71	4.24	3.90	3.41	2.84
A-21	0.48	0.41	0.07	0.00		84.93	0.82	258.00	0.00	0.00	10.000	A-21	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	4.63	4.38	3.94	3.63	3.17	2.64
A-22	0.99	0.84	0.15	0.00		84.93	0.82	298.00	0.00	0.00	10.000	A-22	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	9.57	9.06	8.15	7.50	6.56	5.45
A-23	0.73	0.64	0.09	0.00		87.80	0.83	330.00	0.00	0.00	11.000	A-23	0.50	3.00	1.50	11.43	10.79	9.72	8.93	7.81	6.48	6.94	6.56	5.91	5.43	4.74	3.94
A-23OFF	29.75	0.00	5.72	24.03		44.42	0.59	400.00	0.00	1540.00	30.444	A-23OFF	0.50	3.00	1.50	6.93	6.42	5.80	5.22	4.58	3.68	122.17	113.18	102.22	91.98	80.65	64.80
POND5C	1.23	1.23	0.00	0.00		100.00	0.90	215.00	0.00	165.00	10.000	POND5C	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	13.16	12.46	11.22	10.32	9.02	7.50
A-24OFF	1.43	0.67	0.76	0.00		46.78	0.61	56.00	0.00	715.00	10.000	A-24OFF	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	10.30	9.74	8.77	8.07	7.05	5.87
A-25	0.93	0.69	0.24	0.00		74.47	0.76	391.00	0.00	0.00	13.033	A-25	0.50	3.00	1.50	10.63	10.01	9.02	8.26	7.23	5.97	7.51	7.08	6.37	5.84	5.11	4.22
A-26	1.06	0.78	0.28	0.00		73.46	0.75	400.00	0.00	0.00	13.333	A-26	0.50	3.00	1.50	10.52	9.91	8.93	8.17	7.15	5.90	8.39	7.89	7.11	6.51	5.70	4.70
A-27	1.30	1.00	0.30	0.00		76.68	0.77	350.00	0.00	0.00	11.667	A-27	0.50	3.00	1.50	11.15	10.52	9.48	8.70	7.60	6.30	11.23	10.59	9.54	8.76	7.66	6.34
A-27OFF	0.80	0.54	0.26	0.00		67.75	0.72	0.00	0.00	600.00	10.000	A-27OFF	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	6.89	6.52	5.87	5.40	4.72	3.93
POND6E	7.78	7.78	0.00	0.00		100.00	0.90	158.00	0.00	670.00	12.711	POND6E	0.50	3.00	1.50	10.75	10.13	9.12	8.36	7.31	6.04	75.27	70.92	63.90	58.54	51.21	42.32
A-28	0.81	0.62	0.19	0.00		76.64	0.77	350.00	0.00	0.00	11.667	A-28	0.50	3.00	1.50	11.15	10.52	9.48	8.70	7.60	6.30	7.00	6.60	5.95	5.46	4.77	3.95
A-29	0.77	0.58	0.18	0.00		75.97	0.77	370.00	0.00	0.00	12.333	A-29	0.50	3.00	1.50	10.89	10.27	9.25	8.48	7.41	6.13	6.43	6.06	5.46	5.01	4.38	3.62
A-30	2.64	1.61	1.03	0.00		60.90	0.68	0.00	0.00	1268.00	14.089	A-30	0.50	3.00	1.50	10.27	9.66	8.70	7.96	6.96	5.74	18.58	17.47	15.75	14.40	12.60	10.38
A-31	0.97	0.85	0.12	0.00		87.98	0.83	195.00	0.00	178.00	10.000	A-31	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	9.61	9.10	8.19	7.54	6.59	5.48
A-32	0.68	0.61	0.08	0.00		88.86	0.84	300.00	0.00	0.00	10.000	A-32	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	6.81	6.45	5.81	5.34	4.67	3.88
POND6D	3.05	2.19	0.86	0.00		71.77	0.74	150.00	0.00	290.00	10.000	POND6D	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	26.97	25.52	22.98	21.14	18.48	15.36
A-34	1.08	1.02	0.06	0.00		94.42	0.87	160.00	0.00	200.00	10.000	A-34	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	11.11	10.51	9.46	8.70	7.61	6.33
A-35	0.63	0.54	0.09	0.00		85.00	0.82	300.00	0.00	0.00	10.000	A-35	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	6.12	5.79	5.21	4.79	4.19	3.48
A-35OFF	9.73	1.41	0.90	7.42		56.44	0.66	42.00	0.00	1455.00	17.567	A-35OFF	0.50	3.00	1.50	9.26	8.67	7.82	7.12	6.23	5.10	59.28	55.52	50.06	45.59	39.91	32.67
A-36	0.62	0.52	0.10	0.00		83.57	0.81	300.00	0.00	0.00	10.000	A-36	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	5.97	5.65	5.09	4.68	4.09	3.40
A-37	0.61	0.51	0.10	0.00		83.30	0.81	295.00	0.00	0.00	10.000	A-37	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	5.84	5.53	4.98	4.58	4.00	3.33
A-38+OFF	1.82	0.50	1.32	0.00		27.61	0.50	503.00	0.00	0.00	16.767	A-38	0.50	3.00	1.50	9.47	8.87	8.00	7.29	6.38	5.23	8.67	8.13	7.33	6.68	5.85	4.79
A-39	0.70	0.63	0.08	0.00		88.75	0.84	318.00	0.00	0.00	10.600	A-39	0.50	3.00	1.50	11.60	10.96	9.87	9.08	7.93	6.59	6.85	6.48	5.83	5.36	4.69	3.89

US 290 / Hempstead Corridor Phase II - Drainage Impact & Mitigation Analysis
Small Watershed Method Hydrologic Calculations

1	2	3	4	5	6	7	8	9	10	11	12	13	18	19	20	25	26	27	28	29	30	31	32	33	34	35	36
																RAINFALL INTENSITY IN/HR						RUNOFF IN CFS					
COMP POINT NAME	TOTAL DRAINAGE AREA (AC)	PAVED AREA (AC)	GRASSED AREA (AC)	RESD/COMM DEV. (AC)	INDUSTRIAL DEV. (AC)	INC. % IMPERV.	WGH'T RUNOFF COEFF C	OVERLAND LENGTH (FT)	STRM. SWR LENGTH (FT)	CHAN. LENGTH (FT)	TIME OF CONCEN. TC	COMP POINT NAME	OVERLAND VELOCITY (FPS)	STRM. SWR VELOCITY (FT)	CHAN. VELOCITY (FT)	100-YR i IN/HR	50-YR i IN/HR	25-YR i IN/HR	10-YR i IN/HR	5-YR i IN/HR	2-YR i IN/HR	100-YR Q CFS	50-YR Q CFS	25-YR Q CFS	10-YR Q CFS	5-YR Q CFS	2-YR Q CFS
A-40	0.61	0.53	0.07	0.00		87.90	0.83	293.00	0.00	0.00	10.000	**A-40**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*5.99*	*5.67*	*5.11*	*4.70*	*4.11*	*3.42*
A-41	0.61	0.50	0.10	0.00		83.30	0.81	295.00	0.00	0.00	10.000	**A-41**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*5.81*	*5.50*	*4.95*	*4.56*	*3.98*	*3.31*
A-42	0.50	0.42	0.08	0.00		83.30	0.81	266.00	0.00	0.00	10.000	**A-42**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*4.84*	*4.58*	*4.13*	*3.80*	*3.32*	*2.76*
A-43	1.44	1.34	0.10	0.00		92.88	0.86	470.00	0.00	0.00	15.667	**A-43**	0.50	3.00	1.50	*9.78*	*9.18*	*8.27*	*7.55*	*6.61*	*5.43*	*12.15*	*11.40*	*10.28*	*9.38*	*8.21*	*6.74*
A-44+OFF	8.56	0.58	0.20	7.78		56.74	0.66	500.00	0.00	300.00	20.000	**A-44**	0.50	3.00	1.50	*8.68*	*8.11*	*7.31*	*6.64*	*5.82*	*4.74*	*49.00*	*45.78*	*41.30*	*37.51*	*32.85*	*26.78*
A-50	0.29	0.29	0.00	0.00		100.00	0.90	234.00	0.00	0.00	10.000	**A-50**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*3.10*	*2.93*	*2.64*	*2.43*	*2.12*	*1.76*
A-51	1.07	0.89	0.18	0.00		83.30	0.81	408.00	0.00	0.00	13.600	**A-51**	0.50	3.00	1.50	*10.43*	*9.82*	*8.85*	*8.09*	*7.08*	*5.84*	*9.04*	*8.51*	*7.67*	*7.02*	*6.14*	*5.06*
A-OUT2	7.20	0.00	4.48	2.73		20.81	0.46	155.00	0.00	800.00	14.056	**A-OUT2**	0.50	3.00	1.50	*10.28*	*9.67*	*8.71*	*7.97*	*6.97*	*5.74*	*34.31*	*32.27*	*29.08*	*26.60*	*23.27*	*19.18*
GES-1	41.23	0.00	7.59	33.64		44.87	0.59	685.00	1560.00	0.00	31.500	**GES-1**	0.50	3.00	1.50	*6.80*	*6.30*	*5.69*	*5.11*	*4.48*	*3.60*	*166.77*	*154.40*	*139.46*	*125.39*	*109.96*	*88.23*
TOTAL	**202.93**	**47.13**	**39.14**	**116.66**		**54.84**	**0.65**																				
OUTFALL 10 (GESSNER DR. SYSTEM [TO COLE CREEK])																											
AA-1	1.47	1.39	0.08	0.00		94.27	0.87	400.00	0.00	0.00	13.333	**AA-1**	0.50	3.00	1.50	*10.52*	*9.91*	*8.93*	*8.17*	*7.15*	*5.90*	*13.43*	*12.64*	*11.39*	*10.43*	*9.12*	*7.53*
AA-2	0.38	0.28	0.10	0.00		72.95	0.75	173.00	0.00	0.00	10.000	**AA-2**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*3.38*	*3.19*	*2.88*	*2.65*	*2.31*	*1.92*
AA-3	0.34	0.26	0.08	0.00		76.66	0.77	137.00	0.00	0.00	10.000	**AA-3**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*3.14*	*2.97*	*2.68*	*2.46*	*2.15*	*1.79*
AA-4	1.01	0.93	0.08	0.00		92.23	0.86	325.00	0.00	0.00	10.833	**AA-4**	0.50	3.00	1.50	*11.50*	*10.86*	*9.78*	*8.99*	*7.86*	*6.52*	*9.91*	*9.37*	*8.43*	*7.75*	*6.78*	*5.62*
AA-5	0.51	0.43	0.07	0.00		85.39	0.82	268.00	0.00	0.00	10.000	**AA-5**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*4.94*	*4.67*	*4.21*	*3.87*	*3.39*	*2.81*
AA-6	0.59	0.50	0.09	0.00		84.92	0.82	300.00	0.00	0.00	10.000	**AA-6**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*5.72*	*5.42*	*4.88*	*4.49*	*3.92*	*3.26*
AA-7	0.77	0.62	0.15	0.00		80.76	0.79	336.00	0.00	0.00	11.200	**AA-7**	0.50	3.00	1.50	*11.34*	*10.71*	*9.65*	*8.86*	*7.75*	*6.42*	*6.92*	*6.53*	*5.88*	*5.40*	*4.72*	*3.92*
AA-8	0.99	0.77	0.22	0.00		77.98	0.78	286.00	0.00	0.00	10.000	**AA-8**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*9.16*	*8.66*	*7.80*	*7.18*	*6.27*	*5.22*
AA-9	0.62	0.48	0.14	0.00		77.98	0.78	300.00	0.00	0.00	10.000	**AA-9**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*5.72*	*5.41*	*4.87*	*4.48*	*3.92*	*3.26*
AA-10	0.55	0.31	0.18	0.06		61.86	0.69	192.00	0.00	0.00	10.000	**AA-10**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*4.48*	*4.24*	*3.82*	*3.51*	*3.07*	*2.55*
AA-11	1.44	1.29	0.14	0.00		89.93	0.84	470.00	0.00	0.00	15.667	**AA-11**	0.50	3.00	1.50	*9.78*	*9.18*	*8.27*	*7.55*	*6.61*	*5.43*	*11.85*	*11.13*	*10.03*	*9.15*	*8.01*	*6.58*
AA-12	0.61	0.46	0.14	0.00		76.22	0.77	300.00	0.00	0.00	10.000	**AA-12**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*5.56*	*5.26*	*4.73*	*4.35*	*3.81*	*3.17*
AA-13	0.61	0.46	0.14	0.00		76.20	0.77	300.00	0.00	0.00	10.000	**AA-13**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*5.56*	*5.26*	*4.73*	*4.36*	*3.81*	*3.17*
AA-14	0.40	0.30	0.10	0.00		76.05	0.77	252.00	0.00	0.00	10.000	**AA-14**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*3.66*	*3.46*	*3.11*	*2.87*	*2.50*	*2.08*
AA-15	0.51	0.39	0.12	0.00		76.35	0.77	278.00	0.00	0.00	10.000	**AA-15**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*4.68*	*4.43*	*3.99*	*3.67*	*3.21*	*2.67*
AA-16	0.61	0.46	0.14	0.00		76.23	0.77	300.00	0.00	0.00	10.000	**AA-16**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*5.57*	*5.27*	*4.74*	*4.36*	*3.82*	*3.17*
AA-17	0.51	0.39	0.12	0.00		77.21	0.77	276.00	0.00	0.00	10.000	**AA-17**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*4.65*	*4.40*	*3.96*	*3.65*	*3.19*	*2.65*
AA-18	0.40	0.33	0.08	0.00		81.30	0.80	245.00	0.00	0.00	10.000	**AA-18**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*3.80*	*3.59*	*3.23*	*2.98*	*2.60*	*2.16*
AA-54	1.35	1.22	0.14	0.00		89.97	0.84	366.00	0.00	0.00	12.200	**AA-54**	0.50	3.00	1.50	*10.94*	*10.32*	*9.29*	*8.52*	*7.45*	*6.17*	*12.49*	*11.78*	*10.61*	*9.73*	*8.51*	*7.04*
AA-55	0.52	0.32	0.12	0.08		69.55	0.73	187.00	0.00	0.00	10.000	**AA-55**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*4.56*	*4.31*	*3.88*	*3.57*	*3.12*	*2.60*
TOTAL	**14.18**	**11.60**	**2.44**	**0.14**		**82.36**	**0.80**																				
OUTFALL 11 (COLE CREEK TRIB. [E117-07-00])																											
B-3	0.67	0.52	0.15	0.00		77.98	0.78	313.00	0.00	0.00	10.433	**B-3**	0.50	3.00	1.50	*11.67*	*11.04*	*9.94*	*9.14*	*7.99*	*6.64*	*6.08*	*5.75*	*5.18*	*4.76*	*4.16*	*3.46*
B-4	0.70	0.54	0.15	0.00		78.02	0.78	325.00	0.00	0.00	10.833	**B-4**	0.50	3.00	1.50	*11.50*	*10.86*	*9.78*	*8.99*	*7.86*	*6.52*	*6.24*	*5.89*	*5.31*	*4.88*	*4.26*	*3.54*
B-5	0.80	0.62	0.17	0.00		78.33	0.78	348.00	0.00	0.00	11.600	**B-5**	0.50	3.00	1.50	*11.18*	*10.55*	*9.50*	*8.72*	*7.62*	*6.32*	*6.95*	*6.56*	*5.91*	*5.42*	*4.74*	*3.93*
B-6	0.60	0.50	0.10	0.00		83.23	0.81	288.00	0.00	0.00	10.000	**B-6**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*5.72*	*5.41*	*4.87*	*4.48*	*3.92*	*3.26*
B-7	0.59	0.50	0.09	0.00		84.48	0.81	298.00	0.00	0.00	10.000	**B-7**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*5.75*	*5.44*	*4.90*	*4.50*	*3.94*	*3.27*
B-9	1.19	0.93	0.25	0.00		78.81	0.78	298.00	0.00	0.00	10.000	**B-9**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*11.03*	*10.44*	*9.40*	*8.65*	*7.56*	*6.29*
B-10	0.62	0.48	0.14	0.00		77.94	0.78	306.00	0.00	0.00	10.200	**B-10**	0.50	3.00	1.50	*11.78*	*11.14*	*10.03*	*9.23*	*8.07*	*6.70*	*5.70*	*5.39*	*4.85*	*4.46*	*3.90*	*3.24*
B-12	0.83	0.65	0.18	0.00		78.06	0.78	355.00	0.00	0.00	11.833	**B-12**	0.50	3.00	1.50	*11.08*	*10.46*	*9.42*	*8.64*	*7.56*	*6.26*	*7.20*	*6.79*	*6.12*	*5.61*	*4.91*	*4.07*
B-12A	0.67	0.53	0.15	0.00		78.22	0.78	308.00	0.00	0.00	10.267	**B-12A**	0.50	3.00	1.50	*11.75*	*11.11*	*10.01*	*9.20*	*8.04*	*6.68*	*6.18*	*5.84*	*5.26*	*4.84*	*4.23*	*3.51*
B-13	0.40	0.34	0.07	0.00		83.59	0.81	247.00	0.00	0.00	10.000	**B-13**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*3.85*	*3.65*	*3.28*	*3.02*	*2.64*	*2.20*
B-14	0.60	0.49	0.11	0.00		82.14	0.80	296.00	0.00	0.00	10.000	**B-14**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*5.70*	*5.39*	*4.85*	*4.47*	*3.90*	*3.25*
B-15	0.50	0.39	0.11	0.00		78.77	0.78	220.00	0.00	0.00	10.000	**B-15**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*4.61*	*4.36*	*3.93*	*3.61*	*3.16*	*2.63*
B-16	0.40	0.31	0.09	0.00		77.97	0.78	245.00	0.00	0.00	10.000	**B-16**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*3.66*	*3.47*	*3.12*	*2.87*	*2.51*	*2.09*
B-17	0.49	0.39	0.11	0.00		77.97	0.78	273.00	0.00	0.00	10.000	**B-17**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*4.57*	*4.33*	*3.89*	*3.58*	*3.13*	*2.60*
B-18	0.69	0.54	0.15	0.00		77.98	0.78	320.00	0.00	0.00	10.667	**B-18**	0.50	3.00	1.50	*11.57*	*10.94*	*9.85*	*9.05*	*7.91*	*6.57*	*6.25*	*5.91*	*5.32*	*4.89*	*4.27*	*3.55*
B-19	0.90	0.71	0.20	0.00		78.08	0.78	365.00	0.00	0.00	12.167	**B-19**	0.50	3.00	1.50	*10.95*	*10.33*	*9.30*	*8.53*	*7.46*	*6.17*	*7.71*	*7.27*	*6.55*	*6.00*	*5.25*	*4.35*
B-20	0.79	0.62	0.17	0.00		78.18	0.78	348.00	0.00	0.00	11.600	**B-20**	0.50	3.00	1.50	*11.18*	*10.55*	*9.50*	*8.72*	*7.62*	*6.32*	*6.91*	*6.52*	*5.88*	*5.39*	*4.72*	*3.91*
B-22	1.02	0.80	0.22	0.00		78.23	0.78	284.00	0.00	0.00	10.000	**B-22**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*9.48*	*8.97*	*8.08*	*7.43*	*6.50*	*5.40*
B-24	0.66	0.52	0.15	0.00		78.15	0.78	319.00	0.00	0.00	10.633	**B-24**	0.50	3.00	1.50	*11.58*	*10.95*	*9.86*	*9.06*	*7.92*	*6.58*	*6.00*	*5.67*	*5.10*	*4.69*	*4.10*	*3.41*
B-25	0.80	0.63	0.17	0.00		78.25	0.78	348.00	0.00	0.00	11.600	**B-25**	0.50	3.00	1.50	*11.18*	*10.55*	*9.50*	*8.72*	*7.62*	*6.32*	*7.00*	*6.60*	*5.95*	*5.46*	*4.77*	*3.96*
B-26	0.60	0.47	0.13	0.00		78.22	0.78	252.00	0.00	0.00	10.000	**B-26**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*5.57*	*5.27*	*4.74*	*4.36*	*3.82*	*3.17*
B-27	0.50	0.39	0.11	0.00		78.23	0.78	278.00	0.00	0.00	10.000	**B-27**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*4.64*	*4.39*	*3.95*	*3.64*	*3.18*	*2.64*
B-28	0.94	0.74	0.21	0.00		78.23	0.78	274.00	0.00	0.00	10.000	**B-28**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*8.73*	*8.26*	*7.44*	*6.84*	*5.98*	*4.97*
MH-B1	10.92	0.00	0.00	10.92		55.00	0.65	583.00	694.00	0.00	23.289	**MH-B1**	0.50	3.00	1.50	*8.02*	*7.47*	*6.74*	*6.10*	*5.35*	*4.34*	*56.95*	*53.05*	*47.87*	*43.33*	*37.97*	*30.80*
TOTAL	**26.90**	**12.61**	**3.37**	**10.92**		**69.21**	**0.73**																				
OUTFALL 12 (OUTLET DITCH TO COLE CREEK)																											
C-1	1.11	0.90	0.20	0.00		81.61	0.80	292.00	0.00	0.00	10.000	**C-1**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*10.49*	*9.92*	*8.94*	*8.22*	*7.19*	*5.98*
C-2	0.70	0.60	0.10	0.00		85.64	0.82	320.00	0.00	0.00	10.667	**C-2**	0.50	3.00	1.50	*11.57*	*10.94*	*9.85*	*9.05*	*7.91*	*6.57*	*6.63*	*6.26*	*5.64*	*5.19*	*4.53*	*3.76*
C-5	0.60	0.50	0.10	0.00		82.90	0.81	292.00	0.00	0.00	10.000	**C-5**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*5.75*	*5.44*	*4.90*	*4.50*	*3.94*	*3.27*
C-6	0.40	0.32	0.08	0.00		79.58	0.79	240.00	0.00	0.00	10.000	**C-6**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*3.72*	*3.52*	*3.17*	*2.92*	*2.55*	*2.12*
C-7	0.62	0.48	0.13	0.00		78.23	0.78	301.00	0.00	0.00	10.033	**C-7**	0.50	3.00	1.50	*11.86*	*11.22*	*10.10*	*9.29*	*8.12*	*6.75*	*5.69*	*5.39*	*4.85*	*4.46*	*3.90*	*3.24*
C-8	1.14	0.89	0.26	0.00		77.67	0.78	295.00	0.00	0.00	10.000	**C-8**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*10.54*	*9.97*	*8.98*	*8.26*	*7.22*	*6.00*
C-9	0.62	0.51	0.11	0.00		82.63	0.80	309.00	0.00	0.00	10.300	**C-9**	0.50	3.00	1.50	*11.73*	*11.10*	*9.99*	*9.19*	*8.03*	*6.68*	*5.85*	*5.54*	*4.99*	*4.58*	*4.01*	*3.33*
C-12	0.40	0.32	0.09	0.00		78.32	0.78	250.00	0.00	0.00	10.000	**C-12**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*3.74*	*3.54*	*3.18*	*2.93*	*2.56*	*2.13*
C-13	0.48	0.38	0.10	0.00		78.23	0.78	268.00	0.00	0.00	10.000	**C-13**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*4.45*	*4.22*	*3.80*	*3.49*	*3.05*	*2.54*
C-14	0.40	0.31	0.09	0.00		78.24	0.78	214.00	0.00	0.00	10.000	**C-14**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*3.71*	*3.51*	*3.16*	*2.91*	*2.54*	*2.12*
C-15+OFF	5.58	0.72	0.20	4.65		58.84	0.67	410.00	0.00	570.00	20.000	**C-15**	0.50	3.00	1.50	*8.68*	*8.11*	*7.31*	*6.64*	*5.82*	*4.74*	*32.49*	*30.35*	*27.38*	*24.87*	*21.78*	*17.76*
C-21	0.59	0.47	0.12	0.00		80.11	0.79	297.00	0.00	0.00	10.000	**C-21**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*5.53*	*5.23*	*4.71*	*4.33*	*3.79*	*3.15*
C-22	1.24	1.04	0.20	0.00		83.87	0.81	305.00	0.00	0.00	10.167	**C-22**	0.50	3.00	1.50	*11.79*	*11.16*	*10.05*	*9.24*	*8.08*	*6.71*	*11.84*	*11.20*	*10.08*	*9.27*	*8.11*	*6.74*
C-23	0.58	0.44	0.13	0.00		76.90	0.77	298.00	0.00	0.00	10.000	**C-23**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*5.31*	*5.02*	*4.52*	*4.16*	*3.64*	*3.02*
C-30	0.51	0.40	0.11	0.00		78.23	0.78	276.00	0.00	0.00	10.000	**C-30**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*4.71*	*4.46*	*4.01*	*3.69*	*3.23*	*2.68*

US 290 / Hempstead Corridor Phase II - Drainage Impact & Mitigation Analysis
Small Watershed Method Hydrologic Calculations

1	2	3	4	5	6	7	8	9	10	11	12	13	18	19	20	25	26	27	28	29	30	31	32	33	34	35	36
																RAINFALL INTENSITY IN/HR						RUNOFF IN CFS					
COMP POINT NAME	TOTAL DRAINAGE AREA (AC)	PAVED AREA (AC)	GRASSED AREA (AC)	RESD/COMM DEV. (AC)	INDUSTRIAL DEV. (AC)	INC. % IMPERV.	WGH'T RUNOFF COEFF C	OVERLAND LENGTH (FT)	STRM. SWR LENGTH (FT)	CHAN. LENGTH (FT)	TIME OF CONCEN. TC	COMP POINT NAME	OVERLAND VELOCITY (FPS)	STRM. SWR VELOCITY (FT)	CHAN. VELOCITY (FT)	100-YR i IN/HR	50-YR i IN/HR	25-YR i IN/HR	10-YR i IN/HR	5-YR i IN/HR	2-YR i IN/HR	100-YR Q CFS	50-YR Q CFS	25-YR Q CFS	10-YR Q CFS	5-YR Q CFS	2-YR Q CFS
C-31	0.45	0.35	0.10	0.00		78.22	0.78	265.00	0.00	0.00	10.000	**C-31**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*4.19*	*3.97*	*3.57*	*3.29*	*2.87*	*2.39*
C-32	0.80	0.63	0.17	0.00		78.26	0.78	354.00	0.00	0.00	11.800	**C-32**	0.50	3.00	1.50	*11.10*	*10.47*	*9.43*	*8.65*	*7.57*	*6.27*	*6.94*	*6.55*	*5.90*	*5.41*	*4.73*	*3.92*
MH-C3	37.46	0.00	0.00	37.46		55.00	0.65	342.00	2610.00	0.00	25.900	**MH-C3**	0.50	3.00	1.50	*7.58*	*7.04*	*6.36*	*5.74*	*5.03*	*4.07*	*184.53*	*171.51*	*154.83*	*139.83*	*122.55*	*99.04*
TOTAL	**53.66**	**9.26**	**2.30**	**42.11**		**60.41**	**0.68**																				
OUTFALL 13 (FAIRBANKS N. HOUSTON SYSTEM)																											
D-1+OFF	6.69	0.88	0.25	5.56		58.82	0.67	450.00	0.00	0.00	15.000	**D-1**	0.50	3.00	1.50	*9.98*	*9.37*	*8.45*	*7.72*	*6.75*	*5.55*	*44.80*	*42.09*	*37.93*	*34.65*	*30.32*	*24.94*
D-2	0.60	0.47	0.12	0.00		79.12	0.79	290.00	0.00	0.00	10.000	**D-2**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*5.55*	*5.26*	*4.73*	*4.35*	*3.81*	*3.16*
D-3	0.60	0.46	0.13	0.00		77.52	0.78	302.00	0.00	0.00	10.067	**D-3**	0.50	3.00	1.50	*11.84*	*11.20*	*10.09*	*9.28*	*8.11*	*6.74*	*5.48*	*5.18*	*4.67*	*4.29*	*3.75*	*3.12*
D-4	0.85	0.79	0.06	0.00		92.48	0.86	327.00	0.00	0.00	10.900	**D-4**	0.50	3.00	1.50	*11.47*	*10.84*	*9.76*	*8.96*	*7.84*	*6.50*	*8.38*	*7.92*	*7.13*	*6.55*	*5.73*	*4.75*
D-5	0.20	0.13	0.07	0.00		66.57	0.72	178.00	0.00	0.00	10.000	**D-5**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*1.69*	*1.60*	*1.44*	*1.32*	*1.16*	*0.96*
D-6	0.32	0.19	0.06	0.07		71.70	0.74	118.00	0.00	0.00	10.000	**D-6**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*2.80*	*2.65*	*2.39*	*2.20*	*1.92*	*1.60*
D-7	0.41	0.29	0.11	0.01		72.25	0.75	220.00	0.00	0.00	10.000	**D-7**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*3.68*	*3.48*	*3.13*	*2.88*	*2.52*	*2.10*
D-8	1.06	0.98	0.08	0.00		92.61	0.86	410.00	0.00	0.00	13.667	**D-8**	0.50	3.00	1.50	*10.41*	*9.79*	*8.83*	*8.08*	*7.07*	*5.83*	*9.44*	*8.88*	*8.00*	*7.32*	*6.41*	*5.28*
D-9	0.61	0.48	0.13	0.00		78.70	0.78	306.00	0.00	0.00	10.200	**D-9**	0.50	3.00	1.50	*11.78*	*11.14*	*10.03*	*9.23*	*8.07*	*6.70*	*5.60*	*5.29*	*4.77*	*4.38*	*3.83*	*3.19*
D-10	1.10	0.84	0.26	0.00		76.62	0.77	285.00	0.00	0.00	10.000	**D-10**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*10.06*	*9.52*	*8.57*	*7.89*	*6.89*	*5.73*
D-11	0.56	0.43	0.13	0.00		76.62	0.77	288.00	0.00	0.00	10.000	**D-11**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*5.11*	*4.83*	*4.35*	*4.00*	*3.50*	*2.91*
D-14	1.35	1.22	0.13	0.00		90.32	0.85	470.00	0.00	0.00	15.667	**D-14**	0.50	3.00	1.50	*9.78*	*9.18*	*8.27*	*7.55*	*6.61*	*5.43*	*11.21*	*10.52*	*9.48*	*8.66*	*7.58*	*6.22*
D-15	0.38	0.29	0.09	0.00		76.63	0.77	236.00	0.00	0.00	10.000	**D-15**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*3.45*	*3.27*	*2.94*	*2.71*	*2.37*	*1.97*
D-16	0.48	0.37	0.11	0.00		76.63	0.77	263.00	0.00	0.00	10.000	**D-16**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*4.43*	*4.19*	*3.77*	*3.47*	*3.03*	*2.52*
D-17	0.46	0.36	0.11	0.00		76.63	0.77	259.00	0.00	0.00	10.000	**D-17**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*4.25*	*4.02*	*3.62*	*3.33*	*2.91*	*2.42*
D-18	1.10	0.84	0.26	0.00		76.63	0.77	282.00	0.00	0.00	10.000	**D-18**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*10.08*	*9.54*	*8.59*	*7.90*	*6.91*	*5.74*
D-19	0.94	0.72	0.22	0.00		76.62	0.77	382.00	0.00	0.00	12.733	**D-19**	0.50	3.00	1.50	*10.74*	*10.12*	*9.12*	*8.35*	*7.31*	*6.04*	*7.76*	*7.31*	*6.59*	*6.04*	*5.28*	*4.36*
D-20	0.50	0.34	0.11	0.05		73.61	0.75	180.00	0.00	0.00	10.000	**D-20**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*4.44*	*4.20*	*3.78*	*3.48*	*3.04*	*2.53*
D-21	0.28	0.15	0.04	0.10		71.50	0.74	137.00	0.00	0.00	10.000	**D-21**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*2.47*	*2.34*	*2.11*	*1.94*	*1.69*	*1.41*
D-29	0.72	0.51	0.20	0.00		71.85	0.75	324.00	0.00	0.00	10.800	**D-29**	0.50	3.00	1.50	*11.51*	*10.88*	*9.80*	*9.00*	*7.87*	*6.53*	*6.13*	*5.80*	*5.22*	*4.80*	*4.19*	*3.48*
D-30	1.02	0.73	0.29	0.00		71.45	0.74	397.00	0.00	0.00	13.233	**D-30**	0.50	3.00	1.50	*10.56*	*9.94*	*8.96*	*8.20*	*7.17*	*5.92*	*8.02*	*7.55*	*6.81*	*6.23*	*5.45*	*4.50*
D-31	0.88	0.64	0.24	0.00		72.51	0.75	254.00	0.00	0.00	10.000	**D-31**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*7.82*	*7.40*	*6.66*	*6.13*	*5.36*	*4.46*
D-32	0.73	0.54	0.19	0.00		73.67	0.76	315.00	0.00	0.00	10.500	**D-32**	0.50	3.00	1.50	*11.64*	*11.01*	*9.91*	*9.11*	*7.97*	*6.62*	*6.44*	*6.09*	*5.48*	*5.04*	*4.41*	*3.66*
D-34	1.61	1.41	0.20	0.00		87.59	0.83	489.00	0.00	0.00	16.300	**D-34**	0.50	3.00	1.50	*9.60*	*9.00*	*8.11*	*7.40*	*6.48*	*5.31*	*12.82*	*12.02*	*10.84*	*9.88*	*8.65*	*7.10*
D-35	0.59	0.35	0.19	0.05		64.62	0.71	200.00	0.00	0.00	10.000	**D-35**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*4.92*	*4.65*	*4.19*	*3.86*	*3.37*	*2.80*
TOTAL	**24.02**	**14.40**	**3.78**	**5.83**		**73.33**	**0.75**																				
OUTFALL 14 (OUTLET DITCH TO COLE CREEK)																											
E-1	0.85	0.68	0.17	0.00		79.96	0.79	265.00	0.00	0.00	10.000	**E-1**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*7.94*	*7.51*	*6.76*	*6.22*	*5.44*	*4.52*
E-2	0.76	0.64	0.13	0.00		83.29	0.81	344.00	0.00	0.00	11.467	**E-2**	0.50	3.00	1.50	*11.23*	*10.60*	*9.55*	*8.76*	*7.66*	*6.35*	*6.93*	*6.54*	*5.89*	*5.41*	*4.73*	*3.92*
E-4	0.54	0.42	0.13	0.00		76.62	0.77	277.00	0.00	0.00	10.000	**E-4**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*4.97*	*4.70*	*4.23*	*3.89*	*3.40*	*2.83*
E-5	0.46	0.35	0.11	0.00		76.63	0.77	258.00	0.00	0.00	10.000	**E-5**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*4.21*	*3.99*	*3.59*	*3.30*	*2.89*	*2.40*
E-6	0.81	0.63	0.18	0.00		77.62	0.78	350.00	0.00	0.00	11.667	**E-6**	0.50	3.00	1.50	*11.15*	*10.52*	*9.48*	*8.70*	*7.60*	*6.30*	*7.02*	*6.63*	*5.97*	*5.48*	*4.79*	*3.97*
E-7	1.20	0.92	0.28	0.00		76.84	0.77	313.00	0.00	0.00	10.433	**E-7**	0.50	3.00	1.50	*11.67*	*11.04*	*9.94*	*9.14*	*7.99*	*6.64*	*10.80*	*10.21*	*9.19*	*8.45*	*7.39*	*6.14*
E-8	0.61	0.47	0.14	0.00		76.81	0.77	295.00	0.00	0.00	10.000	**E-8**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*5.55*	*5.25*	*4.73*	*4.35*	*3.80*	*3.16*
E-10	0.45	0.35	0.10	0.00		76.82	0.77	253.00	0.00	0.00	10.000	**E-10**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*4.12*	*3.90*	*3.51*	*3.23*	*2.83*	*2.35*
E-11	0.47	0.36	0.11	0.00		76.72	0.77	260.00	0.00	0.00	10.000	**E-11**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*4.27*	*4.04*	*3.64*	*3.35*	*2.93*	*2.44*
E-12	0.56	0.43	0.13	0.00		76.72	0.77	280.00	0.00	0.00	10.000	**E-12**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*5.14*	*4.86*	*4.38*	*4.03*	*3.52*	*2.93*
E-13	0.58	0.44	0.13	0.00		76.67	0.77	288.00	0.00	0.00	10.000	**E-13**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*5.29*	*5.01*	*4.51*	*4.15*	*3.63*	*3.02*
E-14	0.45	0.34	0.10	0.00		76.65	0.77	255.00	0.00	0.00	10.000	**E-14**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*4.11*	*3.89*	*3.51*	*3.23*	*2.82*	*2.34*
E-15	0.56	0.43	0.13	0.00		76.62	0.77	285.00	0.00	0.00	10.000	**E-15**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*5.13*	*4.85*	*4.37*	*4.02*	*3.51*	*2.92*
E-16	0.92	0.71	0.22	0.00		76.62	0.77	266.00	0.00	0.00	10.000	**E-16**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*8.43*	*7.98*	*7.18*	*6.61*	*5.78*	*4.80*
E-17	0.68	0.52	0.16	0.00		76.71	0.77	315.00	0.00	0.00	10.500	**E-17**	0.50	3.00	1.50	*11.64*	*11.01*	*9.91*	*9.11*	*7.97*	*6.62*	*6.14*	*5.80*	*5.22*	*4.80*	*4.20*	*3.49*
E-18	0.56	0.43	0.13	0.00		76.74	0.77	230.00	0.00	0.00	10.000	**E-18**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*5.13*	*4.86*	*4.37*	*4.02*	*3.52*	*2.93*
E-20	0.56	0.44	0.12	0.00		79.06	0.78	278.00	0.00	0.00	10.000	**E-20**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*5.18*	*4.90*	*4.41*	*4.06*	*3.55*	*2.95*
E-21	0.56	0.47	0.09	0.00		84.42	0.81	282.00	0.00	0.00	10.000	**E-21**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*5.41*	*5.12*	*4.61*	*4.24*	*3.71*	*3.08*
E-21OFF	7.42	0.00	5.87	1.55		11.50	0.41	245.00	0.00	675.00	15.667	**E-21OFF**	0.50	3.00	1.50	*9.78*	*9.18*	*8.27*	*7.55*	*6.61*	*5.43*	*29.92*	*28.08*	*25.31*	*23.10*	*20.22*	*16.61*
E-22	0.87	0.70	0.18	0.00		79.91	0.79	266.00	0.00	0.00	10.000	**E-22**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*8.18*	*7.74*	*6.97*	*6.41*	*5.61*	*4.66*
E-23	0.62	0.48	0.14	0.00		76.90	0.77	303.00	0.00	0.00	10.100	**E-23**	0.50	3.00	1.50	*11.83*	*11.19*	*10.07*	*9.27*	*8.10*	*6.73*	*5.71*	*5.40*	*4.86*	*4.47*	*3.91*	*3.25*
E-25	0.57	0.44	0.13	0.00		76.85	0.77	284.00	0.00	0.00	10.000	**E-25**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*5.22*	*4.93*	*4.44*	*4.09*	*3.57*	*2.97*
E-26	0.58	0.44	0.13	0.00		76.82	0.77	284.00	0.00	0.00	10.000	**E-26**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*5.31*	*5.02*	*4.52*	*4.16*	*3.64*	*3.03*
E-27	0.85	0.65	0.20	0.00		76.78	0.77	260.00	0.00	0.00	10.000	**E-27**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*7.81*	*7.39*	*6.65*	*6.12*	*5.35*	*4.45*
E-28+OFF	6.11	0.47	4.85	0.79		14.83	0.43	790.00	0.00	0.00	26.333	**E-28**	0.50	3.00	1.50	*7.51*	*6.98*	*6.30*	*5.69*	*4.99*	*4.03*	*19.80*	*18.40*	*16.61*	*14.99*	*13.14*	*10.61*
E-30	0.48	0.37	0.11	0.00		76.70	0.77	260.00	0.00	0.00	10.000	**E-30**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*4.42*	*4.19*	*3.77*	*3.47*	*3.03*	*2.52*
E-30OFF	5.22	0.00	3.17	2.05		21.61	0.47	200.00	0.00	870.00	16.333	**E-30OFF**	0.50	3.00	1.50	*9.59*	*8.99*	*8.11*	*7.39*	*6.47*	*5.31*	*23.40*	*21.95*	*19.78*	*18.04*	*15.79*	*12.96*
E-31	0.54	0.41	0.13	0.00		76.68	0.77	273.00	0.00	0.00	10.000	**E-31**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*4.95*	*4.69*	*4.22*	*3.88*	*3.39*	*2.82*
E-32	0.48	0.36	0.11	0.00		76.64	0.77	260.00	0.00	0.00	10.000	**E-32**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*4.36*	*4.13*	*3.71*	*3.42*	*2.99*	*2.48*
E-33	0.87	0.67	0.20	0.00		76.62	0.77	270.00	0.00	0.00	10.000	**E-33**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*8.00*	*7.57*	*6.82*	*6.27*	*5.48*	*4.56*
E-34	0.61	0.47	0.14	0.00		76.63	0.77	296.00	0.00	0.00	10.000	**E-34**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*5.62*	*5.31*	*4.78*	*4.40*	*3.85*	*3.20*
E-34OFF	16.47	0.00	3.41	13.06		43.61	0.59	638.00	115.00	1508.00	38.661	**E-34OFF**	0.50	3.00	1.50	*6.05*	*5.57*	*5.04*	*4.51*	*3.96*	*3.15*	*58.53*	*53.96*	*48.77*	*43.64*	*38.29*	*30.48*
TOTAL	**53.27**	**14.49**	**21.33**	**17.45**		**45.22**	**0.60**																				
OUTFALL 15 (OUTLET DITCH TO COLE CREEK)																											
F-1	0.50	0.39	0.11	0.00		78.96	0.78	265.00	0.00	0.00	10.000	**F-1**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*4.66*	*4.41*	*3.97*	*3.65*	*3.19*	*2.65*
F-2	0.71	0.60	0.12	0.00		83.89	0.81	325.00	0.00	0.00	10.833	**F-2**	0.50	3.00	1.50	*11.50*	*10.86*	*9.78*	*8.99*	*7.86*	*6.52*	*6.66*	*6.29*	*5.67*	*5.21*	*4.55*	*3.78*
F-3	0.54	0.42	0.13	0.00		76.62	0.77	280.00	0.00	0.00	10.000	**F-3**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*4.97*	*4.70*	*4.23*	*3.90*	*3.41*	*2.83*
F-4	0.97	0.76	0.21	0.00		78.51	0.78	305.00	0.00	0.00	10.167	**F-4**	0.50	3.00	1.50	*11.79*	*11.16*	*10.05*	*9.24*	*8.08*	*6.71*	*8.91*	*8.43*	*7.59*	*6.98*	*6.11*	*5.07*
F-5	0.77	0.59	0.18	0.00		76.62	0.77	341.00	0.00	0.00	11.367	**F-5**	0.50	3.00	1.50	*11.27*	*10.64*	*9.58*	*8.80*	*7.69*	*6.38*	*6.70*	*6.33*	*5.70*	*5.23*	*4.58*	*3.79*
F-6	0.78	0.60	0.18	0.00		76.63	0.77	336.00	0.00	0.00	11.200	**F-6**	0.50	3.00	1.50	*11.34*	*10.71*	*9.65*	*8.86*	*7.75*	*6.42*	*6.82*	*6.44*	*5.80*	*5.33*	*4.66*	*3.86*
F-7	0.54	0.42	0.13	0.00		76.62	0.77	280.00	0.00	0.00	10.000	**F-7**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*4.97*	*4.70*	*4.23*	*3.89*	*3.40*	*2.83*
F-8	0.56	0.43	0.13	0.00		76.62	0.77	283.00	0.00	0.00	10.000	**F-8**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*5.13*	*4.85*	*4.37*	*4.02*	*3.51*	*2.92*

US 290 / Hempstead Corridor Phase II - Drainage Impact & Mitigation Analysis

Small Watershed Method Hydrologic Calculations

1	2	3	4	5	6	7	8	9	10	11	12	13	18	19	20	25	26	27	28	29	30	31	32	33	34	35	36
																RAINFALL INTENSITY IN/HR						RUNOFF IN CFS					
COMP POINT NAME	TOTAL DRAINAGE AREA (AC)	PAVED AREA (AC)	GRASSED AREA (AC)	RESD/COMM DEV. (AC)	INDUSTRIAL DEV. (AC)	INC. % IMPERV.	WGH'T RUNOFF COEFF C	OVERLAND LENGTH (FT)	STRM. SWR LENGTH (FT)	CHAN. LENGTH (FT)	TIME OF CONCEN. TC	COMP POINT NAME	OVERLAND VELOCITY (FPS)	STRM. SWR VELOCITY (FT)	CHAN. VELOCITY (FT)	100-YR i IN/HR	50-YR i IN/HR	25-YR i IN/HR	10-YR i IN/HR	5-YR i IN/HR	2-YR i IN/HR	100-YR Q CFS	50-YR Q CFS	25-YR Q CFS	10-YR Q CFS	5-YR Q CFS	2-YR Q CFS
F-9	1.56	1.43	0.13	0.00		91.61	0.85	568.00	0.00	0.00	18.933	**F-9**	0.50	3.00	1.50	*8.92*	*8.34*	*7.52*	*6.84*	*5.99*	*4.89*	*11.89*	*11.12*	*10.03*	*9.12*	*7.98*	*6.52*
F-10	0.29	0.12	0.17	0.00		41.78	0.58	232.00	0.00	0.00	10.000	**F-10**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*2.02*	*1.91*	*1.72*	*1.58*	*1.39*	*1.15*
F-11	0.36	0.26	0.10	0.00		72.94	0.75	178.00	0.00	0.00	10.000	**F-11**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*3.20*	*3.03*	*2.73*	*2.51*	*2.20*	*1.83*
F-12	0.36	0.30	0.07	0.00		81.11	0.80	195.00	0.00	0.00	10.000	**F-12**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*3.44*	*3.25*	*2.93*	*2.69*	*2.36*	*1.96*
F-13	0.20	0.11	0.09	0.00		53.93	0.65	170.00	0.00	0.00	10.000	**F-13**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*1.54*	*1.46*	*1.32*	*1.21*	*1.06*	*0.88*
F-14	1.55	1.39	0.16	0.00		89.93	0.84	515.00	0.00	0.00	17.167	**F-14**	0.50	3.00	1.50	*9.36*	*8.77*	*7.91*	*7.20*	*6.31*	*5.17*	*12.23*	*11.46*	*10.33*	*9.41*	*8.24*	*6.75*
F-15	0.56	0.45	0.11	0.00		80.35	0.79	280.00	0.00	0.00	10.000	**F-15**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*5.26*	*4.98*	*4.48*	*4.12*	*3.61*	*3.00*
F-15A	0.56	0.43	0.13	0.00		76.94	0.77	269.00	0.00	0.00	10.000	**F-15A**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*5.10*	*4.83*	*4.35*	*4.00*	*3.50*	*2.91*
F-16	0.43	0.36	0.07	0.00		84.63	0.82	245.00	0.00	0.00	10.000	**F-16**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*4.12*	*3.90*	*3.51*	*3.23*	*2.82*	*2.35*
F-17	0.80	0.64	0.16	0.00		79.86	0.79	259.00	0.00	0.00	10.000	**F-17**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*7.51*	*7.10*	*6.40*	*5.88*	*5.14*	*4.28*
F-18+OFF	6.34	0.49	4.22	1.63		21.91	0.47	575.00	0.00	0.00	19.167	**F-18**	0.50	3.00	1.50	*8.87*	*8.29*	*7.48*	*6.80*	*5.95*	*4.86*	*26.42*	*24.70*	*22.28*	*20.25*	*17.73*	*14.48*
F-20	0.61	0.47	0.14	0.00		76.63	0.77	288.00	0.00	0.00	10.000	**F-20**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*5.59*	*5.29*	*4.76*	*4.38*	*3.83*	*3.19*
F-25	0.88	0.67	0.21	0.00		76.62	0.77	268.00	0.00	0.00	10.000	**F-25**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*8.05*	*7.62*	*6.86*	*6.31*	*5.52*	*4.59*
F-26	0.75	0.57	0.18	0.00		76.62	0.77	327.00	0.00	0.00	10.900	**F-26**	0.50	3.00	1.50	*11.47*	*10.84*	*9.76*	*8.96*	*7.84*	*6.50*	*6.63*	*6.26*	*5.64*	*5.18*	*4.53*	*3.76*
F-28	1.75	1.62	0.13	0.00		92.85	0.86	615.00	0.00	0.00	20.500	**F-28**	0.50	3.00	1.50	*8.57*	*8.00*	*7.22*	*6.55*	*5.74*	*4.68*	*12.91*	*12.05*	*10.87*	*9.87*	*8.64*	*7.04*
F-29	0.43	0.33	0.07	0.03		80.48	0.79	159.00	0.00	0.00	10.000	**F-29**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*4.02*	*3.80*	*3.42*	*3.15*	*2.75*	*2.29*
F-31	0.39	0.25	0.07	0.07		73.81	0.76	112.00	0.00	0.00	10.000	**F-31**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*3.52*	*3.33*	*2.99*	*2.76*	*2.41*	*2.00*
F-32	0.20	0.11	0.09	0.00		54.01	0.65	166.00	0.00	0.00	10.000	**F-32**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*1.51*	*1.43*	*1.29*	*1.19*	*1.04*	*0.86*
F-33	1.64	0.09	0.13	1.42		53.06	0.64	506.00	0.00	0.00	16.867	**F-33**	0.50	3.00	1.50	*9.44*	*8.85*	*7.98*	*7.27*	*6.36*	*5.22*	*9.93*	*9.31*	*8.39*	*7.65*	*6.69*	*5.49*
MH-F1	133.75	0.00	7.79	125.96		51.80	0.63	380.00	4490.00	0.00	37.611	**MH-F1**	0.50	3.00	1.50	*6.14*	*5.67*	*5.12*	*4.59*	*4.02*	*3.21*	*519.74*	*479.40*	*433.28*	*387.91*	*340.39*	*271.26*
TOTAL	**158.78**	**14.30**	**15.38**	**129.11**		**53.73**	**0.64**																				
OUTFALL 16 (HOLLISTER DR. SYSTEM)																											
G-3	0.45	0.34	0.11	0.00		76.61	0.77	253.00	0.00	0.00	10.000	**G-3**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*4.11*	*3.89*	*3.50*	*3.22*	*2.82*	*2.34*
G-4	0.65	0.50	0.15	0.00		76.62	0.77	306.00	0.00	0.00	10.200	**G-4**	0.50	3.00	1.50	*11.78*	*11.14*	*10.03*	*9.23*	*8.07*	*6.70*	*5.93*	*5.61*	*5.05*	*4.65*	*4.06*	*3.38*
G-5	0.47	0.36	0.11	0.00		76.63	0.77	258.00	0.00	0.00	10.000	**G-5**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*4.27*	*4.04*	*3.64*	*3.35*	*2.93*	*2.43*
G-6	0.37	0.29	0.09	0.00		76.63	0.77	233.00	0.00	0.00	10.000	**G-6**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*3.42*	*3.23*	*2.91*	*2.68*	*2.34*	*1.95*
G-7	0.46	0.32	0.08	0.05		77.10	0.77	156.00	0.00	0.00	10.000	**G-7**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*4.20*	*3.98*	*3.58*	*3.29*	*2.88*	*2.39*
G-8	0.22	0.14	0.02	0.06		78.15	0.78	120.00	0.00	0.00	10.000	**G-8**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*2.03*	*1.92*	*1.73*	*1.59*	*1.39*	*1.16*
G-9	1.03	0.17	0.06	0.80		58.89	0.67	335.00	0.00	0.00	11.167	**G-9**	0.50	3.00	1.50	*11.35*	*10.72*	*9.66*	*8.87*	*7.76*	*6.43*	*7.88*	*7.44*	*6.70*	*6.16*	*5.38*	*4.46*
G-10	2.74	1.69	0.13	0.93		80.14	0.79	590.00	0.00	0.00	19.667	**G-10**	0.50	3.00	1.50	*8.75*	*8.18*	*7.38*	*6.70*	*5.87*	*4.79*	*18.97*	*17.72*	*15.99*	*14.52*	*12.72*	*10.38*
G-12	1.77	0.64	0.18	0.95		65.76	0.71	335.00	60.00	0.00	11.500	**G-12**	0.50	3.00	1.50	*11.22*	*10.59*	*9.54*	*8.75*	*7.65*	*6.34*	*14.09*	*13.30*	*11.98*	*11.00*	*9.62*	*7.97*
G-13	1.51	0.50	0.15	0.85		64.50	0.70	390.00	0.00	0.00	13.000	**G-13**	0.50	3.00	1.50	*10.64*	*10.02*	*9.03*	*8.27*	*7.23*	*5.98*	*11.28*	*10.63*	*9.57*	*8.77*	*7.67*	*6.34*
G-15	2.58	1.04	0.15	1.39		69.87	0.73	535.00	0.00	0.00	17.833	**G-15**	0.50	3.00	1.50	*9.19*	*8.60*	*7.76*	*7.06*	*6.18*	*5.06*	*17.40*	*16.29*	*14.69*	*13.37*	*11.71*	*9.58*
G-16	2.57	0.62	0.19	1.75		61.84	0.69	480.00	0.00	0.00	16.000	**G-16**	0.50	3.00	1.50	*9.68*	*9.08*	*8.19*	*7.47*	*6.54*	*5.37*	*17.09*	*16.04*	*14.46*	*13.19*	*11.54*	*9.48*
G-18	2.65	0.60	0.18	1.87		61.34	0.69	580.00	0.00	0.00	19.333	**G-18**	0.50	3.00	1.50	*8.83*	*8.25*	*7.44*	*6.76*	*5.92*	*4.84*	*16.05*	*15.01*	*13.54*	*12.30*	*10.77*	*8.79*
G-19	3.04	0.57	0.17	2.30		60.28	0.68	825.00	0.00	0.00	27.500	**G-19**	0.50	3.00	1.50	*7.34*	*6.81*	*6.15*	*5.55*	*4.86*	*3.92*	*15.15*	*14.07*	*12.70*	*11.45*	*10.04*	*8.10*
G-20	2.19	0.44	0.12	1.63		61.22	0.68	680.00	0.00	0.00	22.667	**G-20**	0.50	3.00	1.50	*8.14*	*7.58*	*6.84*	*6.20*	*5.43*	*4.41*	*12.21*	*11.38*	*10.27*	*9.30*	*8.15*	*6.61*
G-21	2.11	0.18	0.11	1.82		55.97	0.66	650.00	0.00	0.00	21.667	**G-21**	0.50	3.00	1.50	*8.33*	*7.77*	*7.01*	*6.36*	*5.57*	*4.53*	*11.55*	*10.78*	*9.72*	*8.81*	*7.72*	*6.28*
G-22	1.07	0.23	0.04	0.80		62.39	0.69	325.00	0.00	0.00	10.833	**G-22**	0.50	3.00	1.50	*11.50*	*10.86*	*9.78*	*8.99*	*7.86*	*6.52*	*8.52*	*8.05*	*7.25*	*6.66*	*5.82*	*4.83*
G-23	1.03	0.30	0.07	0.66		64.34	0.70	355.00	0.00	0.00	11.833	**G-23**	0.50	3.00	1.50	*11.08*	*10.46*	*9.42*	*8.64*	*7.56*	*6.26*	*8.00*	*7.55*	*6.80*	*6.24*	*5.46*	*4.52*
G-24	0.83	0.07	0.11	0.65		51.83	0.63	360.00	0.00	0.00	12.000	**G-24**	0.50	3.00	1.50	*11.02*	*10.39*	*9.36*	*8.59*	*7.51*	*6.21*	*5.81*	*5.48*	*4.93*	*4.53*	*3.96*	*3.28*
G-25	2.34	1.71	0.09	0.54		85.79	0.82	748.00	0.00	0.00	24.933	**G-25**	0.50	3.00	1.50	*7.74*	*7.20*	*6.50*	*5.87*	*5.14*	*4.16*	*14.87*	*13.84*	*12.49*	*11.29*	*9.89*	*8.01*
G-26	1.06	0.35	0.11	0.61		64.23	0.70	352.00	0.00	0.00	11.733	**G-26**	0.50	3.00	1.50	*11.12*	*10.49*	*9.45*	*8.67*	*7.59*	*6.28*	*8.26*	*7.79*	*7.02*	*6.44*	*5.63*	*4.66*
MH-G3	55.33	0.00	0.00	55.33		55.00	0.65	750.00	2357.00	0.00	38.094	**MH-G3**	0.50	3.00	1.50	*6.10*	*5.62*	*5.08*	*4.55*	*3.99*	*3.18*	*219.29*	*202.22*	*182.77*	*163.58*	*143.55*	*114.34*
TOTAL	**86.47**	**11.06**	**2.42**	**72.99**		**59.22**	**0.67**																				

US 290 / Hempstead Corridor Phase II - Drainage Impact & Mitigation Study
SMALL WATERSHED METHOD HYDROLOGIC COMPUTATIONS

COMP POINT NAME	TOTAL DRAINAGE AREA (AC)	PAVED AREA (AC)	GRASSED AREA (AC)	RESD/COMM DEV. (AC)	INDUSTRIAL DEV. (AC)	INC. % IMPERV.	WGH'T RUNOFF COEFF C	OVERLAND LENGTH (FT)	STRM. SWR LENGTH (FT)	CHAN. LENGTH (FT)	TIME OF CONCEN. TC	COMP POINT NAME	OVERLAND VELOCITY (FPS)	STRM. SWR VELOCITY (FT)	CHAN. VELOCITY (FT)	RANFALL INTENSITY IN/HR						RUNOFF IN CFS					
																100-YR i IN/HR	50-YR i IN/HR	25-YR i IN/HR	10-YR i IN/HR	5-YR i IN/HR	2-YR i IN/HR	100-YR Q CFS	50-YR Q CFS	25-YR Q CFS	10-YR Q CFS	5-YR Q CFS	2-YR Q CFS
	IMP%>>>	100	0	55	73																						
	C>>>>	0.9	0.35	0.65	0.75																						
EXISTING CONDITIONS:																											
OUTFALL 17 (LANGFIELD ST [TO BRICKHOUSE GULLY TRIB. E115-04-00])																											
CI-161A	2.67	0.22	0.57	1.88	0.00	47.00	0.61	0.00	0.00	397.00	10.000	CI-161A	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	19.20	18.17	16.36	15.05	13.16	10.94
CI-163	0.46	0.16	0.30	0.00	0.00	34.29	0.54	0.00	0.00	290.00	10.000	CI-163	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	2.93	2.77	2.49	2.29	2.01	1.67
CI-164	2.65	0.19	0.13	2.33	0.00	55.49	0.65	0.00	523.00	92.00	10.000	CI-164	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	20.54	19.44	17.50	16.10	14.08	11.71
CI-165	4.34	0.22	0.11	4.00	0.00	55.85	0.65	0.00	518.00	100.00	10.000	CI-165	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	33.72	31.90	28.73	26.43	23.10	19.21
CI-166	0.27	0.18	0.09	0.00	0.00	65.76	0.71	25.00	0.00	232.00	10.000	CI-166	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	2.27	2.15	1.94	1.78	1.56	1.30
CI-167	1.74	0.12	0.07	1.55	0.00	56.03	0.66	0.00	0.00	383.00	10.000	CI-167	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	13.55	12.82	11.54	10.62	9.29	7.72
CI-168	1.40	0.18	0.09	1.13	0.00	57.17	0.66	0.00	0.00	251.00	10.000	CI-168	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	10.98	10.39	9.36	8.61	7.53	6.26
CI-169	0.32	0.21	0.11	0.00	0.00	65.22	0.71	0.00	0.00	300.00	10.000	CI-169	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	2.71	2.56	2.31	2.12	1.86	1.54
CI-170	1.17	0.14	0.09	0.94	0.00	55.95	0.66	0.00	0.00	351.00	10.000	CI-170	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	9.08	8.60	7.74	7.12	6.23	5.18
CI-171	5.28	0.11	0.06	5.11	0.00	55.27	0.65	0.00	700.00	62.00	10.000	CI-171	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	40.84	38.65	34.80	32.02	27.99	23.27
CI-172	1.93	0.19	0.12	1.62	0.00	56.01	0.66	0.00	0.00	466.00	10.000	CI-172	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	15.03	14.22	12.81	11.78	10.30	8.56
CI-173	0.32	0.22	0.10	0.00	0.00	69.18	0.73	0.00	0.00	296.00	10.000	CI-173	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	2.76	2.61	2.35	2.16	1.89	1.57
CI-175	0.50	0.30	0.20	0.00	0.00	59.40	0.68	0.00	0.00	372.00	10.000	CI-175	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	4.02	3.80	3.42	3.15	2.75	2.29
CI-176	0.26	0.17	0.09	0.00	0.00	65.38	0.71	0.00	0.00	130.00	10.000	CI-176	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	2.19	2.07	1.87	1.72	1.50	1.25
CI-177	2.10	0.24	0.16	1.70	0.00	55.90	0.66	0.00	0.00	247.00	10.000	CI-177	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	16.34	15.46	13.92	12.81	11.20	9.31
CI-178	2.65	0.17	0.08	2.41	0.00	56.33	0.66	0.00	0.00	329.00	10.000	CI-178	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	20.69	19.57	17.62	16.22	14.18	11.79
CI-181	3.33	0.21	0.12	3.00	0.00	55.93	0.66	211.00	0.00	312.00	10.500	CI-181	0.50	3.00	1.50	11.64	11.01	9.91	9.11	7.97	6.62	25.41	24.02	21.63	19.89	17.39	14.44
CI-182	1.92	0.17	0.51	1.24	0.00	44.43	0.59	150.00	0.00	435.00	10.000	CI-182	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	13.51	12.78	11.51	10.59	9.26	7.70
CI-184	3.38	0.24	1.19	1.95	0.00	38.83	0.56	260.00	0.00	327.00	12.300	CI-184	0.50	3.00	1.50	10.90	10.28	9.26	8.49	7.42	6.14	20.71	19.53	17.59	16.13	14.11	11.67
CI-185	3.09	0.42	0.27	2.40	0.00	56.28	0.66	0.00	0.00	491.00	10.000	CI-185	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	24.11	22.81	20.54	18.90	16.52	13.74
MHI-88	2.56	1.37	1.19	0.00	0.00	53.52	0.64	0.00	0.00	450.00	10.000	MHI-88	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	19.58	18.53	16.68	15.35	13.42	11.16
MHI-89	1.89	1.08	0.81	0.00	0.00	57.14	0.66	0.00	0.00	784.00	10.000	MHI-89	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	14.91	14.10	12.70	11.68	10.21	8.49
MHI-90	1.17	0.68	0.49	0.00	0.00	58.12	0.67	0.00	0.00	324.00	10.000	MHI-90	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	9.30	8.80	7.92	7.29	6.37	5.30
MHI-92	1.33	0.78	0.55	0.00	0.00	58.65	0.67	0.00	0.00	482.00	10.000	MHI-92	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	10.62	10.05	9.05	8.32	7.28	6.05
MHI-95	2.67	1.58	1.09	0.00	0.00	59.18	0.68	0.00	0.00	407.00	10.000	MHI-95	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	21.41	20.26	18.24	16.78	14.67	12.20
MHI-96	2.07	1.34	0.73	0.00	0.00	64.73	0.71	0.00	0.00	350.00	10.000	MHI-96	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	17.35	16.42	14.78	13.60	11.89	9.89
MHI-97	1.65	0.94	0.71	0.00	0.00	57.21	0.66	0.00	0.00	545.00	10.000	MHI-97	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	13.02	12.32	11.09	10.21	8.92	7.42
A102	3.03	0.00	0.00	3.03	0.00	55.00	0.65	179.00	0.00	300.00	10.000	A102	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	23.38	22.12	19.92	18.33	16.02	13.32
CNT-01	48.99	0.00	14.70	34.30	0.00	38.50	0.56	500.00	1884.00	0.00	27.133	CNT-01	0.50	3.00	1.50	7.39	6.86	6.20	5.59	4.90	3.95	202.74	188.27	169.98	153.34	134.42	108.45
TOTAL	105.12	11.82	24.73	68.57	0.00	47.12	0.61																				
OUTFALL 18 (PINEMONT DR. SYSTEM))																											
CI-188	0.98	0.98	0.00	0.00	0.00	99.91	0.90	0.00	0.00	563.00	10.000	CI-188	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	10.47	9.90	8.92	8.20	7.17	5.96
CI-189	0.38	0.25	0.13	0.00	0.00	65.79	0.71	0.00	0.00	213.00	10.000	CI-189	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	3.21	3.04	2.74	2.52	2.20	1.83
CI-190	0.38	0.25	0.13	0.00	0.00	66.67	0.72	0.00	0.00	183.00	10.000	CI-190	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	3.19	3.02	2.72	2.50	2.19	1.82
CI-191	0.39	0.25	0.14	0.00	0.00	63.78	0.70	0.00	0.00	173.00	10.000	CI-191	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	3.26	3.09	2.78	2.56	2.23	1.86
CI-192	0.45	0.45	0.00	0.00	0.00	100.00	0.90	0.00	0.00	500.00	10.000	CI-192	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	4.81	4.55	4.10	3.77	3.29	2.74
CI-194	0.94	0.45	0.49	0.00	0.00	48.08	0.61	0.00	0.00	145.00	10.000	CI-194	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	6.83	6.46	5.82	5.35	4.68	3.89
CI-195	0.25	0.25	0.00	0.00	0.00	100.00	0.90	0.00	0.00	179.00	10.000	CI-195	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	2.67	2.53	2.28	2.09	1.83	1.52
CI-196	0.22	0.19	0.03	0.00	0.00	86.42	0.83	0.00	0.00	180.00	10.000	CI-196	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	2.14	2.02	1.82	1.67	1.46	1.22
CI-197	0.87	0.54	0.33	0.00	0.00	62.10	0.69	0.00	0.00	517.00	10.000	CI-197	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	7.13	6.74	6.07	5.59	4.88	4.06
DI-18	5.07	1.55	3.52	0.00	0.00	30.57	0.52	0.00	0.00	750.00	10.000	DI-18	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	31.19	29.51	26.57	24.45	21.37	17.77
DI-19	2.08	0.78	1.30	0.00	0.00	37.36	0.56	0.00	0.00	205.00	10.000	DI-19	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	13.72	12.98	11.69	10.75	9.40	7.82
DI-20	2.49	0.00	2.49	0.00	0.00	0.00	0.35	427.00	0.00	0.00	14.233	DI-20	0.50	3.00	1.50	10.22	9.61	8.66	7.92	6.93	5.71	8.90	8.37	7.54	6.90	6.03	4.97
DI-22	0.25	0.00	0.25	0.00	0.00	0.00	0.35	0.00	0.00	226.00	10.000	DI-22	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	1.02	0.96	0.87	0.80	0.70	0.58
DI-23	3.42	0.48	2.94	0.00	0.00	13.93	0.43	145.00	0.00	299.00	10.000	DI-23	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	17.31	16.38	14.74	13.57	11.86	9.86
DI-24	6.67	0.39	0.24	6.04	0.00	55.61	0.65	0.00	0.00	722.00	10.000	DI-24	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	51.75	48.97	44.09	40.57	35.46	29.49
DI-28	0.51	0.51	0.00	0.00	0.00	100.00	0.90	0.00	0.00	332.00	10.000	DI-28	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	5.45	5.16	4.64	4.27	3.73	3.10
DI-31	1.15	1.15	0.00	0.00	0.00	100.00	0.90	0.00	0.00	425.00	10.000	DI-31	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	12.29	11.63	10.47	9.63	8.42	7.00
DI-34	0.98	0.98	0.00	0.00	0.00	100.00	0.90	0.00	0.00	615.00	10.000	DI-34	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	10.49	9.93	8.94	8.22	7.19	5.98
MHI-98	1.54	0.91	0.63	0.00	0.00	59.29	0.68	0.00	0.00	610.00	10.000	MHI-98	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	12.36	11.70	10.53	9.69	8.47	7.04
MHI-99	0.51	0.26	0.25	0.00	0.00	50.98	0.63	0.00	0.00	522.00	10.000	MHI-99	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	3.82	3.61	3.25	2.99	2.62	2.17
MHI-101	0.25	0.00	0.25	0.00	0.00	0.00	0.35	0.00	0.00	300.00	10.000	MHI-101	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	1.04	0.98	0.89	0.81	0.71	0.59
MHI-102	1.13	0.64	0.49	0.00	0.00	56.64	0.66	0.00	0.00	320.00	10.000	MHI-102	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	8.87	8.40	7.56	6.96	6.08	5.06
MHI-104	2.61	0.61	2.00	0.00	0.00	23.33	0.48	0.00	0.00	624.00	10.000	MHI-104	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	14.82	14.02	12.63	11.62	10.16	8.44
MHI-105	0.35	0.00	0.35	0.00	0.00	0.00	0.35	0.00	0.00	303.00	10.000	MHI-105	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	1.45	1.38	1.24	1.14	1.00	0.83
MHI-106	0.53	0.00	0.53	0.00	0.00	0.00	0.35	0.00	0.00	403.00	10.000	MHI-106	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	2.19	2.08	1.87	1.72	1.50	1.25
MHI-107	3.05	1.22	1.83	0.00	0.00	39.90	0.57	0.00	0.00	467.00	10.000	MHI-107	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	20.59	19.48	17.54	16.14	14.11	11.73
MHI-109	0.88	0.47	0.41	0.00	0.00	53.17	0.64	0.00	0.00	281.00	10.000	MHI-109	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	6.74	6.38	5.74	5.28	4.62	3.84
CNT-02	34.79	0.00	10.43	24.36	0.00	38.50	0.56	539.00	1792.00	0.00	27.922	CNT-02	0.50	3.00	1.50	7.27	6.75	6.10	5.50	4.82	3.88	141.73	131.54	118.77	107.08	93.87	75.66
TOTAL	73.10	13.54	29.16	30.40	0.00	41.40	0.58																				
OUTFALL 19 (BINGLE RD. SYSTEM))																											
CI-1	0.41	0.32	0.09	0.00	0.00	78.73	0.78	0.00	0.00	413.00	10.000	CI-1	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	3.80	3.60	3.24	2.98	2.61	2.17
CI-2	0.52	0.39	0.13	0.00	0.00	75.05	0.76	0.00	0.00	278.00	10.000	CI-2	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	4.68	4.43	3.99	3.67	3.21	2.67
CI-2A	0.94	0.88	0.06	0.00	0.00	93.62	0.86	0.00	0.00	290.00	10.000	CI-2A	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	9.65	9.13	8.22	7.57	6.61	5.50
CI-3	2.53	0.40	2.13	0.00	0.00	15.77	0.44	200.00	0.00	500.00	12.222	CI-3	0.50	3.00	1.50	10.93	10.31	9.28	8.51	7.45	6.16	12.08	11.39	10.26	9.41	8.23	6.81
CI-4	1.52	0.44	0.47	0.61	0.00	51.02	0.63	0.00	0.00	505.00	10.000	CI-4	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	11.36	10.75	9.68	8.91	7.79	6.47
CI-4A	0.95	0.47	0.00	0.48	0.00	77.12	0.77	0.00	0.00	261.00	10.000	CI-4A	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	8.72	8.25	7.43	6.83	5.97	4.97
CI-5	2.02	0.45	0.00	1.57	0.00	65.02	0.71	0.00	0.00	339.00	10.000	CI-5	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	16.92	16.01	14.42	13.27	11.60	9.64
CI-6	0.78	0.16	0.00	0.63	0.00	64.01	0.70	0.00	0.00	137.00	10.000	CI-6	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	6.52	6.17	5.55	5.11	4.47	3.71
CI-6A	0.45	0.45	0.00	0.00	0.00	100.00	0.90	0.00	0.00	189.00	10.000	CI-6A	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	4.75	4.50	4.05	3.73	3.26	2.71
MHI-1	2.02	1.24	0.79	0.00	0.00	61.14	0.69	0.00	0.00	635.00	10.000	MHI-1	0.50	3.00	1.50	11.87	11.23	10.11	9.31	8.14	6.76	16.46	15.57	14.02	12.90	11.28	9.38
MHI-3	3.56	2.03	1.53	0.00	0.00	56.97	0.66	0.00	0.00	1026.00	11.400	MHI-3	0.50	3.00	1.50	11.26	10.63	9.57	8.79	7.68	6.37	26.58	25.10	22.60	20.75	18.15	15.04
POND-4B	1.54	0.00	1.54	0.00	0.00	0.00	0.35	413.00	0.00	0.00	13.767	POND-4B	0.50	3.00	1.50	10.37	9.76	8.80	8.05	7.04	5.81	5.59	5.26	4.74	4.34	3.79	3.13

US 290 / Hempstead Corridor Phase II - Drainage Impact & Mitigation Study
SMALL WATERSHED METHOD HYDROLOGIC COMPUTATIONS

COMP POINT NAME	TOTAL DRAINAGE AREA (AC)	PAVED AREA (AC)	GRASSED AREA (AC)	RESD/COMM DEV. (AC)	INDUSTRIAL DEV. (AC)	INC. % IMPERV.	WGH'T RUNOFF COEFF C	OVERLAND LENGTH (FT)	STRM. SWR LENGTH (FT)	CHAN. LENGTH (FT)	TIME OF CONCEN. TC	COMP POINT NAME	OVERLAND VELOCITY (FPS)	STRM. SWR VELOCITY (FT)	CHAN. VELOCITY (FT)	RANFALL INTENSITY IN/HR						RUNOFF IN CFS					
																100-YR i IN/HR	50-YR i IN/HR	25-YR i IN/HR	10-YR i IN/HR	5-YR i IN/HR	2-YR i IN/HR	100-YR Q CFS	50-YR Q CFS	25-YR Q CFS	10-YR Q CFS	5-YR Q CFS	2-YR Q CFS
BNGL01	24.98	0.00	7.49	17.49	0.00	38.50	0.56	391.00	1615.00	0.00	22.006	BNGL01	0.50	3.00	1.50	*8.26*	*7.71*	*6.95*	*6.30*	*5.52*	*4.49*	*115.60*	*107.79*	*97.26*	*88.15*	*77.22*	*62.76*	
MH-9	10.29	1.01	2.78	6.50	0.00	44.58	0.59	100.00	133.00	555.00	10.239	MH-9	0.50	3.00	1.50	*11.76*	*11.12*	*10.02*	*9.21*	*8.05*	*6.69*	*71.81*	*67.92*	*61.16*	*56.24*	*49.17*	*40.86*	
MH-11	11.20	1.34	0.80	9.05	0.00	56.45	0.66	137.00	160.00	419.00	10.111	MH-11	0.50	3.00	1.50	*11.82*	*11.18*	*10.07*	*9.26*	*8.10*	*6.73*	*87.17*	*82.47*	*74.26*	*68.31*	*59.71*	*49.64*	
TOTAL	63.70	9.57	17.81	36.32	0.00	46.38	0.60																					
PROPOSED CONDITIONS:																												
OUTFALL 17 (LANGFIELD ST. [TO BRICKHOUSE GULLY TRIB. E115-04-00])																												
A-1	4.61	1.46	0.45	2.70	0.00	63.97	0.70	0.00	0.00	719.00	10.000	A-1	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*38.33*	*36.27*	*32.66*	*30.05*	*26.27*	*21.84*	
A-2	7.85	2.19	0.56	5.10	0.00	63.64	0.70	0.00	0.00	654.00	10.000	A-2	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*65.12*	*61.62*	*55.48*	*51.05*	*44.62*	*37.10*	
A-3	7.37	1.72	0.52	5.13	0.00	61.58	0.69	174.00	0.00	208.00	10.000	A-3	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*60.07*	*56.84*	*51.17*	*47.08*	*41.16*	*34.22*	
A-5	5.24	1.80	0.44	3.00	0.00	65.80	0.71	0.00	0.00	485.00	10.000	A-5	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*44.17*	*41.80*	*37.63*	*34.62*	*30.27*	*25.17*	
A-8	4.98	1.72	0.52	2.74	0.00	64.74	0.70	0.00	0.00	519.00	10.000	A-8	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*41.63*	*39.39*	*35.47*	*32.63*	*28.53*	*23.72*	
A-9	4.31	1.80	0.44	2.07	0.00	68.13	0.72	0.00	0.00	447.00	10.000	A-9	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*37.04*	*35.05*	*31.56*	*29.03*	*25.38*	*21.10*	
A-10	4.86	1.72	0.53	2.62	0.00	64.90	0.71	0.00	0.00	457.00	10.000	A-10	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*40.75*	*38.55*	*34.71*	*31.94*	*27.92*	*23.22*	
A-12	5.35	1.72	0.52	3.11	0.00	64.17	0.70	260.00	0.00	165.00	10.500	A-12	0.50	3.00	1.50	*11.64*	*11.01*	*9.91*	*9.11*	*7.97*	*6.62*	*43.67*	*41.29*	*37.18*	*34.18*	*29.88*	*24.82*	
A-13	4.62	1.83	0.41	2.38	0.00	68.03	0.72	0.00	0.00	457.00	10.000	A-13	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*39.63*	*37.50*	*33.76*	*31.06*	*27.16*	*22.58*	
A102	3.03	0.00	0.00	3.03	0.00	55.00	0.65	179.00	0.00	300.00	10.000	A102	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*23.38*	*22.12*	*19.92*	*18.33*	*16.02*	*13.32*	
CNT-01	48.99	0.00	14.70	34.30	0.00	38.50	0.56	500.00	1884.00	0.00	27.133	CNT-01	0.50	3.00	1.50	*7.39*	*6.86*	*6.20*	*5.59*	*4.90*	*3.95*	*202.75*	*188.27*	*169.98*	*153.35*	*134.42*	*108.45*	
TOTAL	101.21	15.95	19.09	66.17	0.00	51.72	0.63																					
OUTFALL 18 (PINEMONT DR. SYSTEM)																												
B-1	7.18	0.49	3.49	3.21	0.00	31.36	0.52	260.00	0.00	406.00	13.178	B-1	0.50	3.00	1.50	*10.58*	*9.96*	*8.97*	*8.22*	*7.19*	*5.94*	*39.62*	*37.30*	*33.61*	*30.78*	*26.92*	*22.23*	
B-2	1.46	1.24	0.22	0.00	0.00	84.93	0.82	0.00	0.00	415.00	10.000	B-2	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*14.16*	*13.40*	*12.07*	*11.10*	*9.71*	*8.07*	
B-4	2.75	2.17	0.58	0.00	0.00	78.99	0.78	134.00	0.00	275.00	10.000	B-4	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*25.64*	*24.26*	*21.84*	*20.10*	*17.57*	*14.61*	
B-6	1.29	1.17	0.11	0.00	0.00	91.21	0.85	0.00	0.00	250.00	10.000	B-6	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*12.99*	*12.29*	*11.07*	*10.18*	*8.90*	*7.40*	
B-7A	6.04	0.00	0.00	6.04	0.00	55.00	0.65	0.00	0.00	722.00	10.000	B-7A	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*46.61*	*44.10*	*39.71*	*36.54*	*31.94*	*26.56*	
B-8	1.87	1.53	0.33	0.01	0.00	82.30	0.80	0.00	0.00	332.00	10.000	B-8	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*17.82*	*16.86*	*15.18*	*13.97*	*12.21*	*10.15*	
B-9	1.01	0.77	0.33	0.01	0.00	77.25	0.81	0.00	0.00	275.00	10.000	B-9	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*9.71*	*9.19*	*8.27*	*7.61*	*6.65*	*5.53*	
C-1	4.55	2.08	2.47	0.00	0.00	45.79	0.60	427.00	0.00	0.00	14.233	C-1	0.50	3.00	1.50	*10.22*	*9.61*	*8.66*	*7.92*	*6.93*	*5.71*	*27.97*	*26.30*	*23.70*	*21.67*	*18.96*	*15.62*	
C-2	2.00	0.73	1.26	0.01	0.00	36.84	0.55	0.00	0.00	205.00	10.000	C-2	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*13.15*	*12.44*	*11.20*	*10.31*	*9.01*	*7.49*	
C-2a	5.20	1.82	3.38	0.00	0.00	34.94	0.54	0.00	0.00	705.00	10.000	C-2a	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*33.44*	*31.64*	*28.49*	*26.21*	*22.91*	*19.05*	
POND4D	6.00	4.06	1.94	0.00	0.00	67.71	0.72	0.00	0.00	500.00	10.000	POND4D	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*51.43*	*48.66*	*43.81*	*40.31*	*35.24*	*29.30*	
C-4	2.16	1.21	0.95	0.00	0.00	56.02	0.66	147.00	0.00	440.00	10.000	C-4	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*16.88*	*15.97*	*14.38*	*13.23*	*11.56*	*9.62*	
C-6	0.84	0.77	0.07	0.00	0.00	91.15	0.85	0.00	0.00	308.00	10.000	C-6	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*8.49*	*8.03*	*7.23*	*6.66*	*5.82*	*4.84*	
MHI-109	0.88	0.47	0.41	0.00	0.00	53.41	0.64	0.00	0.00	281.00	10.000	MHI-109	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*6.73*	*6.36*	*5.73*	*5.27*	*4.61*	*3.83*	
CNT-02	34.79	0.00	10.44	24.36	0.00	38.50	0.56	539.00	1792.00	0.00	27.922	CNT-02	0.50	3.00	1.50	*7.27*	*6.75*	*6.10*	*5.50*	*4.82*	*3.88*	*141.74*	*131.54*	*118.77*	*107.08*	*93.87*	*75.66*	
POND4A	6.21	6.21	0.00	0.00	0.00	100.00	0.90	0.00	0.00	845.00	10.000	POND4A	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*66.32*	*62.75*	*56.50*	*51.99*	*45.45*	*37.79*	
B-7	3.02	1.05	1.90	0.07	0.00	36.04	0.55	315.00	0.00	50.00	11.056	B-7	0.50	3.00	1.50	*11.40*	*10.77*	*9.70*	*8.91*	*7.79*	*6.46*	*18.89*	*17.84*	*16.07*	*14.76*	*12.90*	*10.70*	Proposed Model Only
C-4a	2.97	1.18	1.80	0.00	0.00	39.52	0.57	0.00	0.00	467.00	10.000	C-4a	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*20.03*	*18.95*	*17.07*	*15.70*	*13.73*	*11.41*	Proposed Model Only
TOTAL	84.22	24.73	25.97	33.63	0.00	51.32	0.63																					
OUTFALL 19 (BINGLE RD. SYSTEM)																												
D-1	2.12	0.97	1.15	0.00	0.00	45.69	0.60	161.00	0.00	331.00	10.000	D-1	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*15.12*	*14.31*	*12.88*	*11.85*	*10.36*	*8.61*	
D-2a	2.59	2.03	0.55	0.00	0.00	78.61	0.78	0.00	0.00	293.00	10.000	D-2a	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*24.01*	*22.72*	*20.46*	*18.82*	*16.45*	*13.68*	
D-2	3.17	1.35	0.21	1.61	0.00	70.52	0.74	0.00	81.00	486.00	10.000	D-2	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*27.72*	*26.23*	*23.62*	*21.73*	*19.00*	*15.79*	
D-3a	0.97	0.73	0.24	0.00	0.00	75.04	0.76	36.00	0.00	266.00	10.000	D-3a	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*8.77*	*8.29*	*7.47*	*6.87*	*6.01*	*4.99*	
D-3	3.36	1.34	2.02	0.00	0.00	39.99	0.57	158.00	0.00	211.00	10.000	D-3	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*22.75*	*21.53*	*19.38*	*17.83*	*15.59*	*12.96*	
D-5	1.41	1.10	0.31	0.00	0.00	77.92	0.78	0.00	0.00	412.00	10.000	D-5	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*13.00*	*12.30*	*11.07*	*10.19*	*8.91*	*7.40*	
D-5A	1.85	1.04	0.26	0.54	0.00	72.53	0.75	0.00	0.00	416.00	10.000	D-5A	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*16.39*	*15.51*	*13.96*	*12.85*	*11.23*	*9.34*	
D-6	2.01	1.30	0.28	0.43	0.00	76.55	0.77	0.00	0.00	337.00	10.000	D-6	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*18.41*	*17.42*	*15.69*	*14.43*	*12.62*	*10.49*	
D-7	2.68	1.15	1.11	0.42	0.00	51.48	0.63	210.00	0.00	379.00	11.211	D-7	0.50	3.00	1.50	*11.34*	*10.71*	*9.64*	*8.85*	*7.74*	*6.42*	*19.22*	*18.15*	*16.34*	*15.01*	*13.12*	*10.88*	
BNGL01	24.98	0.00	7.49	17.49	0.00	38.50	0.56	391.00	1615.00	0.00	22.006	BNGL01	0.50	3.00	1.50	*8.26*	*7.71*	*6.95*	*6.30*	*5.52*	*4.49*	*115.60*	*107.79*	*97.26*	*88.15*	*77.22*	*62.76*	
MH-9	10.29	1.01	2.77	6.50	0.00	44.60	0.59	100.00	133.00	555.00	10.239	MH-9	0.50	3.00	1.50	*11.76*	*11.12*	*10.02*	*9.21*	*8.05*	*6.69*	*71.82*	*67.93*	*61.17*	*56.25*	*49.18*	*40.87*	
MH-11	11.20	1.34	0.81	9.05	0.00	56.41	0.66	137.00	160.00	419.00	10.111	MH-11	0.50	3.00	1.50	*11.82*	*11.18*	*10.07*	*9.26*	*8.10*	*6.73*	*87.14*	*82.44*	*74.23*	*68.28*	*59.69*	*49.62*	
POND4B	1.54	1.54	0.00	0.00	0.00	100.20	0.90	0.00	0.00	432.00	10.000	POND4B	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*16.45*	*15.57*	*14.02*	*12.90*	*11.28*	*9.38*	
TOTAL	68.15	14.90	17.21	36.04	0.00	50.95	0.63																					

US 290 / Hempstead Corridor Phase II - Drainage Impact & Mitigation Analysis

Small Watershed Method Hydrologic Calculations

1	2	3	4	5	6	7	8	9	10	11	12	13	18	19	20	25	26	27	28	29	30	31	32	33	34	35	36
COMP POINT NAME	TOTAL DRAINAGE AREA (AC)	PAVED AREA (AC)	GRASSED AREA (AC)	RESD/COMM DEV. (AC)	INDUSTRIAL DEV. (AC)	INC. % IMPERV.	WGH'T RUNOFF COEFF C	OVERLAND LENGTH (FT)	STRM. SWR LENGTH (FT)	CHAN. LENGTH (FT)	TIME OF CONCEN. TC	COMP POINT NAME	OVERLAND VELOCITY (FPS)	STRM. SWR VELOCITY (FT)	CHAN. VELOCITY (FT)	RAINFALL INTENSITY IN/HR						RUNOFF IN CFS					
																100-YR i IN/HR	50-YR i IN/HR	25-YR i IN/HR	10-YR i IN/HR	5-YR i IN/HR	2-YR i IN/HR	100-YR Q CFS	50-YR Q CFS	25-YR Q CFS	10-YR Q CFS	5-YR Q CFS	2-YR Q CFS
	IMP%>>>	100	0	55	73																						
	C>>>>	0.9	0.35	0.65	0.75																						
EXISTING CONDITIONS:																											
OUTFALL 20 (W. 43RD ST. SYSTEM [TO BRICKHOUSE GULLY TRIB.])																											
CI-1.2	1.19	0.18	0.06	0.95	0.00	58.85	0.67	0.00	0.00	264.00	10.000	**CI-1.2**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*9.46*	*8.95*	*8.06*	*7.42*	*6.48*	*5.39*
CI-2.2	5.48	0.31	5.17	0.00	0.00	5.68	0.38	462.00	0.00	0.00	15.400	**CI-2.2**	0.50	3.00	1.50	*9.86*	*9.25*	*8.34*	*7.62*	*6.66*	*5.48*	*20.58*	*19.32*	*17.42*	*15.90*	*13.91*	*11.44*
CI-3.2	0.46	0.16	0.30	0.00	0.00	35.55	0.55	0.00	0.00	230.00	10.000	**CI-3.2**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*3.00*	*2.84*	*2.55*	*2.35*	*2.05*	*1.71*
CI-4.2	4.00	0.42	1.63	1.96	0.00	37.33	0.55	213.00	0.00	345.00	10.933	**CI-4.2**	0.50	3.00	1.50	*11.45*	*10.82*	*9.75*	*8.95*	*7.83*	*6.49*	*25.38*	*23.98*	*21.59*	*19.84*	*17.35*	*14.39*
CI-5.1	4.53	0.33	4.20	0.00	0.00	7.24	0.39	474.00	0.00	0.00	15.800	**CI-5.1**	0.50	3.00	1.50	*9.74*	*9.14*	*8.24*	*7.52*	*6.58*	*5.40*	*17.20*	*16.14*	*14.55*	*13.28*	*11.62*	*9.54*
CI-6.1	3.10	0.70	0.00	2.40	0.00	65.15	0.71	228.00	0.00	315.00	11.100	**CI-6.1**	0.50	3.00	1.50	*11.38*	*10.75*	*9.68*	*8.89*	*7.78*	*6.45*	*24.92*	*23.54*	*21.20*	*19.47*	*17.02*	*14.12*
CI-7.1	0.72	0.26	0.00	0.47	0.00	70.96	0.74	0.00	0.00	347.00	10.000	**CI-7.1**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*6.33*	*5.99*	*5.39*	*4.96*	*4.34*	*3.61*
CI-8.1	1.05	0.42	0.00	0.63	0.00	72.91	0.75	0.00	0.00	404.00	10.000	**CI-8.1**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*9.34*	*8.84*	*7.96*	*7.32*	*6.40*	*5.32*
CI-9.1	1.30	1.10	0.20	0.00	0.00	84.94	0.82	0.00	0.00	275.00	10.000	**CI-9.1**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*12.56*	*11.89*	*10.70*	*9.85*	*8.61*	*7.16*
CI-10.1	0.55	0.55	0.00	0.00	0.00	100.00	0.90	0.00	0.00	264.00	10.000	**CI-10.1**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*5.84*	*5.53*	*4.97*	*4.58*	*4.00*	*3.33*
CI-11.1	0.53	0.53	0.00	0.00	0.00	100.00	0.90	0.00	0.00	303.00	10.000	**CI-11.1**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*5.64*	*5.34*	*4.81*	*4.42*	*3.87*	*3.21*
CI-12.1	0.47	0.47	0.00	0.00	0.00	99.87	0.90	0.00	0.00	260.00	10.000	**CI-12.1**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*5.02*	*4.75*	*4.28*	*3.94*	*3.44*	*2.86*
CI-13.1	0.83	0.58	0.25	0.00	0.00	69.83	0.73	0.00	0.00	240.00	10.000	**CI-13.1**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*7.28*	*6.88*	*6.20*	*5.70*	*4.99*	*4.15*
CI-14	2.78	2.78	0.00	0.00	0.00	100.00	0.90	0.00	0.00	505.00	10.000	**CI-14**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*29.70*	*28.11*	*25.31*	*23.28*	*20.35*	*16.92*
CI-15	1.06	1.06	0.00	0.00	0.00	100.00	0.90	0.00	0.00	200.00	10.000	**CI-15**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*11.33*	*10.72*	*9.65*	*8.88*	*7.76*	*6.45*
CI-16	0.66	0.50	0.16	0.00	0.00	76.36	0.77	0.00	0.00	322.00	10.000	**CI-16**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*6.03*	*5.71*	*5.14*	*4.73*	*4.13*	*3.44*
MHI-1.2	2.82	1.67	1.15	0.00	0.00	59.22	0.68	0.00	0.00	1058.00	11.756	**MHI-1.2**	0.50	3.00	1.50	*11.11*	*10.49*	*9.45*	*8.67*	*7.58*	*6.28*	*21.18*	*19.98*	*18.00*	*16.51*	*14.44*	*11.96*
MHI-2.2	2.76	1.70	1.06	0.00	0.00	61.55	0.69	0.00	0.00	1071.00	11.900	**MHI-2.2**	0.50	3.00	1.50	*11.06*	*10.43*	*9.39*	*8.62*	*7.54*	*6.24*	*21.01*	*19.82*	*17.85*	*16.38*	*14.32*	*11.86*
MHI-3.1	0.85	0.47	0.38	0.00	0.00	55.29	0.65	0.00	0.00	323.00	10.000	**MHI-3.1**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*6.60*	*6.25*	*5.62*	*5.17*	*4.52*	*3.76*
MHI-4.2	0.96	0.53	0.43	0.00	0.00	54.74	0.65	0.00	0.00	262.00	10.000	**MHI-4.2**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*7.42*	*7.02*	*6.32*	*5.82*	*5.08*	*4.23*
MHI-5.1	2.05	1.21	0.84	0.00	0.00	59.02	0.67	0.00	0.00	817.00	10.000	**MHI-5.1**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*16.42*	*15.54*	*13.99*	*12.87*	*11.25*	*9.36*
MHI-6	2.03	1.29	0.74	0.00	0.00	63.65	0.70	0.00	0.00	806.00	10.000	**MHI-6**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*16.83*	*15.93*	*14.34*	*13.19*	*11.53*	*9.59*
MH-8.1	0.52	0.52	0.00	0.00	0.00	100.00	0.90	0.00	0.00	232.00	10.000	**MH-8.1**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*5.56*	*5.26*	*4.73*	*4.36*	*3.81*	*3.17*
MH-13	0.37	0.37	0.00	0.00	0.00	100.00	0.90	0.00	0.00	220.00	10.000	**MH-13**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*3.95*	*3.74*	*3.37*	*3.10*	*2.71*	*2.25*
MH-14	0.28	0.28	0.00	0.00	0.00	100.00	0.90	0.00	0.00	155.00	10.000	**MH-14**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*2.99*	*2.83*	*2.55*	*2.35*	*2.05*	*1.70*
MHI-16	2.21	1.40	0.81	0.00	0.00	63.35	0.70	0.00	0.00	712.00	10.000	**MHI-16**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*18.32*	*17.34*	*15.61*	*14.36*	*12.56*	*10.44*
MHI-17	2.52	1.44	1.08	0.00	0.00	57.10	0.66	0.00	0.00	718.00	10.000	**MHI-17**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*19.87*	*18.80*	*16.93*	*15.57*	*13.61*	*11.32*
W43RD	53.06	0.00	21.22	31.84	0.00	33.00	0.53	0.00	2000.00	2700.00	41.111	**W43RD**	0.50	3.00	1.50	*5.83*	*5.37*	*4.85*	*4.34*	*3.81*	*3.02*	*163.96*	*150.95*	*136.47*	*121.92*	*107.01*	*84.98*
TOTAL	**99.13**	**21.22**	**39.68**	**38.24**	**0.00**	**42.62**	**0.58**																				
OUTFALL 21 (HEWITT DR. OUTFALL [TO E515-01-00])																											
CI-1	1.11	0.75	0.36	0.00	0.00	67.93	0.72	0.00	0.00	909.00	10.100	**CI-1**	0.50	3.00	1.50	*11.83*	*11.19*	*10.07*	*9.27*	*8.10*	*6.73*	*9.50*	*8.99*	*8.09*	*7.44*	*6.51*	*5.41*
CI-2	2.21	1.23	0.98	0.00	0.00	55.63	0.66	0.00	0.00	887.00	10.000	**CI-2**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*17.22*	*16.29*	*14.67*	*13.50*	*11.80*	*9.81*
MHI-1	3.67	2.40	1.27	0.00	0.00	65.30	0.71	0.00	0.00	952.00	10.578	**MHI-1**	0.50	3.00	1.50	*11.61*	*10.97*	*9.88*	*9.08*	*7.94*	*6.59*	*30.23*	*28.58*	*25.73*	*23.65*	*20.68*	*17.17*
MHI-2	3.56	2.26	1.30	0.00	0.00	63.42	0.70	0.00	0.00	977.00	10.856	**MHI-2**	0.50	3.00	1.50	*11.49*	*10.85*	*9.77*	*8.98*	*7.85*	*6.52*	*28.55*	*26.98*	*24.30*	*22.32*	*19.52*	*16.20*
COH01	57.50	0.00	0.00	57.50	0.00	55.00	0.65	1050.00	0.00	3000.00	68.333	**COH01**	0.50	3.00	1.50	*4.27*	*3.89*	*3.52*	*3.11*	*2.73*	*2.12*	*159.52*	*145.30*	*131.59*	*116.06*	*102.05*	*79.32*
TOTAL	**68.05**	**6.64**	**3.91**	**57.50**	**0.00**	**56.23**	**0.66**																				
OUTFALL 22 (BRICKHOUSE GULLY [E115-00-00])																											
MHI-1.1	1.53	1.12	0.41	0.00	0.00	73.06	0.75	0.00	0.00	270.00	10.000	**MHI-1.1**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*13.68*	*12.95*	*11.66*	*10.73*	*9.38*	*7.80*
MHI-2.1	1.68	1.22	0.47	0.00	0.00	72.32	0.75	0.00	0.00	422.00	10.000	**MHI-2.1**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*14.91*	*14.11*	*12.71*	*11.69*	*10.22*	*8.50*
MHI-3	1.83	1.17	0.66	0.00	0.00	63.93	0.70	0.00	0.00	525.00	10.000	**MHI-3**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*15.24*	*14.42*	*12.99*	*11.95*	*10.45*	*8.69*
MHI-4	1.86	1.11	0.75	0.00	0.00	59.75	0.68	0.00	0.00	545.00	10.000	**MHI-4**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*14.97*	*14.16*	*12.75*	*11.73*	*10.26*	*8.53*
MHI-4.1	2.03	1.54	0.49	0.00	0.00	75.91	0.77	0.00	0.00	559.00	10.000	**MHI-4.1**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*18.46*	*17.47*	*15.73*	*14.47*	*12.65*	*10.52*
MHI-5	2.13	1.62	0.51	0.00	0.00	76.12	0.77	0.00	0.00	570.00	10.000	**MHI-5**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*19.41*	*18.37*	*16.54*	*15.21*	*13.30*	*11.06*
MH-6	0.43	0.32	0.11	0.00	0.00	74.42	0.76	0.00	0.00	145.00	10.000	**MH-6**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*3.88*	*3.67*	*3.30*	*3.04*	*2.66*	*2.21*
MH-11	1.47	1.14	0.34	0.00	0.00	77.23	0.77	0.00	0.00	721.00	10.000	**MH-11**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*13.56*	*12.83*	*11.55*	*10.63*	*9.29*	*7.72*
MHI-12S	2.68	2.68	0.00	0.00	0.00	100.00	0.90	0.00	0.00	553.00	10.000	**MHI-12S**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*28.64*	*27.10*	*24.40*	*22.45*	*19.62*	*16.32*
MHI-13	1.41	0.46	0.95	0.00	0.00	32.84	0.53	0.00	0.00	454.00	10.000	**MHI-13**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*8.88*	*8.40*	*7.57*	*6.96*	*6.09*	*5.06*
MH-16	0.56	0.43	0.13	0.00	0.00	76.79	0.77	0.00	0.00	272.00	10.000	**MH-16**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*5.13*	*4.86*	*4.37*	*4.02*	*3.52*	*2.93*
MH-18S	58.85	0.00	0.00	58.85	0.00	55.00	0.65	480.00	2590.00	0.00	30.389	**MH-18S**	0.50	3.00	1.50	*6.94*	*6.43*	*5.81*	*5.23*	*4.58*	*3.68*	*265.49*	*245.97*	*222.15*	*199.90*	*175.28*	*140.83*
MH-20	1.61	1.20	0.41	0.00	0.00	74.53	0.76	0.00	0.00	641.00	10.000	**MH-20**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*14.53*	*13.74*	*12.38*	*11.39*	*9.95*	*8.28*
MH-21	1.72	1.21	0.51	0.00	0.00	70.35	0.74	0.00	0.00	693.00	10.000	**MH-21**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*15.05*	*14.24*	*12.82*	*11.80*	*10.31*	*8.57*
MHI-22	2.74	1.96	0.78	0.00	0.00	71.53	0.74	0.00	0.00	910.00	10.111	**MHI-22**	0.50	3.00	1.50	*11.82*	*11.18*	*10.07*	*9.26*	*8.10*	*6.73*	*24.08*	*22.78*	*20.51*	*18.87*	*16.49*	*13.71*
MH-24	1.92	1.48	0.44	0.00	0.00	77.08	0.77	0.00	0.00	721.00	10.000	**MH-24**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*17.64*	*16.69*	*15.03*	*13.83*	*12.09*	*10.05*
CI-1.1	0.75	0.52	0.23	0.00	0.00	69.66	0.73	0.00	0.00	450.00	10.000	**CI-1.1**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*6.48*	*6.14*	*5.52*	*5.08*	*4.44*	*3.69*
CI-2.1	1.53	0.54	0.00	0.98	0.00	70.99	0.74	0.00	0.00	554.00	10.000	**CI-2.1**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*13.39*	*12.67*	*11.41*	*10.50*	*9.18*	*7.63*
CI-2C	1.80	1.16	0.64	0.00	0.00	64.44	0.70	0.00	0.00	411.00	10.000	**CI-2C**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*15.05*	*14.24*	*12.83*	*11.80*	*10.32*	*8.58*
CI-3	0.27	0.19	0.08	0.00	0.00	69.14	0.73	190.00	0.00	504.00	11.933	**CI-3**	0.50	3.00	1.50	*11.04*	*10.42*	*9.38*	*8.61*	*7.53*	*6.23*	*2.17*	*2.05*	*1.84*	*1.69*	*1.48*	*1.22*
CI-3A	0.38	0.26	0.12	0.00	0.00	69.23	0.73	0.00	0.00	473.00	10.000	**CI-3A**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*3.30*	*3.12*	*2.81*	*2.58*	*2.26*	*1.88*
CI-3.1	1.87	1.87	0.00	0.00	0.00	100.00	0.90	0.00	0.00	318.00	10.000	**CI-3.1**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*19.98*	*18.91*	*17.02*	*15.66*	*13.69*	*11.38*
CI-4.1	1.57	0.34	0.00	1.23	0.00	64.66	0.70	0.00	0.00	478.00	10.000	**CI-4.1**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*13.12*	*12.41*	*11.17*	*10.28*	*8.99*	*7.47*
CI-4	1.15	0.40	0.75	0.00	0.00	34.78	0.54	52.00	0.00	492.00	10.000	**CI-4**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*7.39*	*6.99*	*6.30*	*5.79*	*5.06*	*4.21*
CI-5	2.14	0.38	1.63	0.14	0.00	21.11	0.47	281.00	0.00	0.00	10.000	**CI-5**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*11.85*	*11.22*	*10.10*	*9.29*	*8.12*	*6.75*
CI-6	2.27	2.27	0.00	0.00	0.00	99.96	0.90	0.00	0.00	457.00	10.000	**CI-6**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*24.25*	*22.94*	*20.66*	*19.01*	*16.62*	*13.82*
CI-7	1.48	1.48	0.00	0.00	0.00	100.00	0.90	0.00	0.00	212.00	10.000	**CI-7**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*15.81*	*14.96*	*13.47*	*12.39*	*10.83*	*9.01*
CI-8	1.65	1.18	0.00	0.47	0.00	87.17	0.83	0.00	0.00	500.00	10.000	**CI-8**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*16.21*	*15.34*	*13.81*	*12.71*	*11.11*	*9.24*
CI-9	6.80	0.37	5.82	0.61	0.00	10.41	0.41	0.00	0.00	873.00	10.000	**CI-9**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*32.86*	*31.09*	*28.00*	*25.76*	*22.52*	*18.72*
CI-10	0.39	0.29	0.10	0.00	0.00	73.35	0.75	0.00	0.00	339.00	10.000	**CI-10**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*3.49*	*3.30*	*2.97*	*2.73*	*2.39*	*1.99*
CI-11	0.95	0.75	0.20	0.00	0.00	78.67	0.78	0.00	0.00	385.00	10.000	**CI-11**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*8.80*	*8.33*	*7.50*	*6.90*	*6.03*	*5.01*
CI-12A	0.80	0.80	0.00	0.00	0.00	100.00	0.90	0.00	0.00	215.00	10.000	**CI-12A**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*8.58*	*8.12*	*7.31*	*6.73*	*5.88*	*4.89*
CI-13	1.17	1.17	0.00	0.00	0.00	100.00	0.90	0.00	0.00	527.00	10.000	**CI-13**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*12.46*	*11.79*	*10.61*	*9.77*	*8.54*	*7.10*
CI-13A	2.30	2.30	0.00	0.00	0.00	100.22	0.90	0.00	0.00	551.00	10.000	**CI-13A**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*24.55*	*23.23*	*20.92*	*19.25*	*16.83*	*13.99*
JCT-3	0.57	0.41	0.16	0.00	0.00	72.63	0.75	0.00	0.00	304.00	10.000	**JCT-3**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*5.07*	*4.80*	*4.32*	*3.98*	*3.48*	*2.89*
JCT-9	0.67	0.49	0.19	0.00	0.00	72.28	0.75	0.00	0.00	241.00	10.000	**JCT-9**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*5.96*	*5.63*	*5.07*	*4.67*	*4.08*	*3.39*
JCT-14	1.33	0.94	0.39	0.00	0.00	70.90	0.74	0.00	0.00	500.00	10.000	**JCT-14**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*11.68*	*11.06*	*9.95*	*9.16*	*8.01*	*6.66*
TOTAL	**116.27**	**36.75**	**17.24**	**62.29**	**0.00**	**61.07**	**0.68**																				
PROPOSED CONDITIONS:																											
OUTFALL 20 (W. 43RD ST. SYSTEM [TO BRICKHOUSE GULLY TRIB.])																											
E-6	2.99	1.19	0.19	1.61	0.00	69.28	0.73	127.00	0.00	290.00	10.000	**E-6**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*25.86*	*24.47*	*22.03*	*20.27*	*17.72*	*14.73*
E-7	1.28	1.12	0.16	0.00	0.00	87.25	0.83	0.00	0.00	362.00	10.000	**E-7**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*12.59*	*11.91*	*10.73*	*9.87*	*8.63*	*7.17*

US 290 / Hempstead Corridor Phase II - Drainage Impact & Mitigation Analysis

Small Watershed Method Hydrologic Calculations

1	2	3	4	5	6	7	8	9	10	11	12	13	18	19	20	25	26	27	28	29	30	31	32	33	34	35	36	
																RAINFALL INTENSITY IN/HR						RUNOFF IN CFS						
COMP POINT NAME	TOTAL DRAINAGE AREA (AC)	PAVED AREA (AC)	GRASSED AREA (AC)	RESD/COMM DEV. (AC)	INDUSTRIAL DEV. (AC)	INC. % IMPERV.	WGH'T RUNOFF COEFF C	OVERLAND LENGTH (FT)	STRM. SWR LENGTH (FT)	CHAN. LENGTH (FT)	TIME OF CONCEN. TC	COMP POINT NAME	OVERLAND VELOCITY (FPS)	STRM. SWR VELOCITY (FT)	CHAN. VELOCITY (FT)	100-YR i IN/HR	50-YR i IN/HR	25-YR i IN/HR	10-YR i IN/HR	5-YR i IN/HR	2-YR i IN/HR	100-YR Q CFS	50-YR Q CFS	25-YR Q CFS	10-YR Q CFS	5-YR Q CFS	2-YR Q CFS	
E-7a	1.28	1.11	0.17	0.00	0.00	86.91	0.83	0.00	0.00	349.00	10.000	**E-7a**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*12.54*	*11.87*	*10.69*	*9.83*	*8.60*	*7.15*	
E-8	2.20	1.80	0.14	0.26	0.00	88.28	0.84	0.00	0.00	311.00	10.000	**E-8**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*21.83*	*20.65*	*18.59*	*17.11*	*14.96*	*12.44*	
E-9	1.78	1.42	0.33	0.03	0.00	80.74	0.79	0.00	0.00	457.00	10.000	**E-9**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*16.77*	*15.87*	*14.29*	*13.15*	*11.49*	*9.56*	
E-10	1.15	0.90	0.25	0.00	0.00	78.00	0.78	0.00	0.00	332.00	10.000	**E-10**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*10.64*	*10.06*	*9.06*	*8.34*	*7.29*	*6.06*	
E-11	1.83	1.40	0.42	0.00	0.00	76.79	0.77	0.00	0.00	313.00	10.000	**E-11**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*16.73*	*15.83*	*14.26*	*13.12*	*11.47*	*9.53*	
***E-1**	6.78	1.42	5.36	0.00	0.00	20.89	0.46	462.00	0.00	0.00	15.400	**E-1**	0.50	3.00	1.50	*9.86*	*9.25*	*8.34*	*7.62*	*6.66*	*5.48*	*31.07*	*29.17*	*26.29*	*24.00*	*21.01*	*17.27*	*Split flow between Outfall 20&22
***E-1a**	2.66	1.36	0.35	0.95	0.00	70.96	0.74	0.00	0.00	493.00	10.000	**E-1a**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*23.32*	*22.06*	*19.86*	*18.28*	*15.98*	*13.28*	*Split flow between Outfall 20&22
***E-2**	7.09	2.60	4.49	0.00	0.00	36.69	0.55	474.00	0.00	0.00	15.800	**E-2**	0.50	3.00	1.50	*9.74*	*9.14*	*8.24*	*7.52*	*6.58*	*5.40*	*38.07*	*35.73*	*32.21*	*29.39*	*25.72*	*21.13*	*Split flow between Outfall 20&22
TOTAL	**29.02**	**14.31**	**11.87**	**2.84**	**0.00**	**54.70**	**0.65**																					
OUTFALL 21 (HEWITT DR. OUTFALL [TO E515-01-00])																												
F-4	1.07	0.85	0.22	0.00	0.00	79.08	0.78	0.00	0.00	301.00	10.000	**F-4**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*9.97*	*9.44*	*8.50*	*7.82*	*6.83*	*5.68*	
F-5	3.03	2.37	0.65	0.00	0.00	78.43	0.78	0.00	0.00	452.00	10.000	**F-5**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*28.07*	*26.56*	*23.91*	*22.00*	*19.23*	*15.99*	
F-6	3.08	2.38	0.69	0.00	0.00	77.42	0.78	0.00	0.00	422.00	10.000	**F-6**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*28.32*	*26.80*	*24.13*	*22.20*	*19.41*	*16.14*	
TOTAL	**7.17**	**5.60**	**1.57**	**0.00**	**0.00**	**78.09**	**0.78**																					
OUTFALL 22 (BRICKHOUSE GULLY [E115-00-00])																												
***E-3**	3.96	1.32	0.24	2.40	0.00	66.65	0.72	228.00	0.00	297.00	10.900	**E-3**	0.50	3.00	1.50	*11.47*	*10.84*	*9.76*	*8.96*	*7.84*	*6.50*	*32.48*	*30.69*	*27.64*	*25.39*	*22.20*	*18.42*	*Split flow between Outfall 20&22
***E-4**	4.17	1.55	0.34	2.27	0.00	67.26	0.72	0.00	0.00	668.00	10.000	**E-4**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*35.53*	*33.62*	*30.27*	*27.85*	*24.35*	*20.25*	*Split flow between Outfall 20&22
E-5	3.91	2.80	0.35	0.76	0.00	82.37	0.80	0.00	0.00	548.00	10.000	**E-5**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*37.25*	*35.25*	*31.74*	*29.20*	*25.53*	*21.23*	
F-1	1.94	1.61	0.33	0.00	0.00	82.93	0.81	0.00	0.00	340.00	10.000	**F-1**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*18.59*	*17.59*	*15.83*	*14.57*	*12.74*	*10.59*	
F-1a	1.67	1.42	0.25	0.00	0.00	85.05	0.82	0.00	0.00	435.00	10.000	**F-1a**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*16.24*	*15.37*	*13.84*	*12.73*	*11.13*	*9.25*	
F-2	2.40	1.89	0.52	0.00	0.00	78.43	0.78	0.00	0.00	400.00	10.000	**F-2**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*22.30*	*21.10*	*19.00*	*17.48*	*15.28*	*12.71*	
F-3	3.49	2.84	0.65	0.00	0.00	81.40	0.80	0.00	0.00	446.00	10.000	**F-3**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*33.04*	*31.26*	*28.15*	*25.90*	*22.64*	*18.83*	
G-1	1.82	1.57	0.25	0.00	0.00	86.03	0.82	0.00	0.00	230.00	10.000	**G-1**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*17.83*	*16.87*	*15.19*	*13.97*	*12.21*	*10.16*	
G-1a	1.53	1.20	0.33	0.00	0.00	78.23	0.78	0.00	0.00	365.00	10.000	**G-1a**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*14.16*	*13.40*	*12.07*	*11.10*	*9.71*	*8.07*	
G-1b	2.90	2.25	0.65	0.00	0.00	77.46	0.78	0.00	0.00	390.00	10.000	**G-1b**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*26.75*	*25.32*	*22.79*	*20.97*	*18.33*	*15.24*	
G-2	2.43	1.23	0.21	1.00	0.00	72.99	0.75	0.00	0.00	470.00	10.000	**G-2**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*21.67*	*20.50*	*18.46*	*16.98*	*14.85*	*12.35*	
G-2a	2.00	1.42	0.30	0.28	0.00	78.74	0.78	0.00	0.00	458.00	10.000	**G-2a**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*18.59*	*17.59*	*15.84*	*14.57*	*12.74*	*10.59*	
G-3a	4.68	1.88	0.37	2.43	0.00	68.71	0.73	224.00	0.00	299.00	10.789	**G-3a**	0.50	3.00	1.50	*11.52*	*10.88*	*9.80*	*9.01*	*7.87*	*6.53*	*39.13*	*36.98*	*33.30*	*30.60*	*26.76*	*22.21*	
G-3	3.18	1.46	0.32	1.40	0.00	70.08	0.73	25.00	0.00	457.00	10.000	**G-3**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*27.72*	*26.23*	*23.61*	*21.73*	*18.99*	*15.79*	
G-4	2.15	1.09	0.34	0.72	0.00	69.20	0.73	0.00	0.00	466.00	10.000	**G-4**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*18.64*	*17.64*	*15.88*	*14.61*	*12.78*	*10.62*	
G-5a	0.46	0.36	0.08	0.02	0.00	81.24	0.80	0.00	0.00	170.00	10.000	**G-5a**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*4.33*	*4.10*	*3.69*	*3.40*	*2.97*	*2.47*	
G-5	2.97	1.82	0.22	0.92	0.00	78.58	0.78	0.00	0.00	512.00	10.000	**G-5**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*27.52*	*26.04*	*23.45*	*21.58*	*18.86*	*15.68*	
H-1	3.27	2.56	0.71	0.00	0.00	78.38	0.78	0.00	0.00	504.00	10.000	**H-1**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*30.31*	*28.68*	*25.83*	*23.76*	*20.77*	*17.27*	
H-2	2.56	2.16	0.40	0.00	0.00	84.36	0.81	0.00	0.00	508.00	10.000	**H-2**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*24.69*	*23.36*	*21.04*	*19.35*	*16.92*	*14.07*	
H-3a	0.67	0.43	0.24	0.00	0.00	64.20	0.70	0.00	0.00	245.00	10.000	**H-3a**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*5.56*	*5.26*	*4.74*	*4.36*	*3.81*	*3.17*	
H-3	1.70	1.35	0.35	0.00	0.00	79.54	0.79	0.00	0.00	280.00	10.000	**H-3**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*15.92*	*15.06*	*13.56*	*12.48*	*10.91*	*9.07*	
H-4a	1.48	1.07	0.40	0.00	0.00	72.68	0.75	0.00	0.00	394.00	10.000	**H-4a**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*13.14*	*12.43*	*11.19*	*10.30*	*9.00*	*7.49*	
DET-4C	5.85	5.85	0.00	0.00	0.00	100.00	0.90	0.00	0.00	716.00	10.000	**DET-4C**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*62.47*	*59.11*	*53.23*	*48.97*	*42.81*	*35.60*	
H-5	2.24	1.63	0.61	0.00	0.00	72.67	0.75	0.00	0.00	582.00	10.000	**H-5**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*19.96*	*18.89*	*17.01*	*15.65*	*13.68*	*11.37*	
H-7	2.62	2.17	0.45	0.00	0.00	82.83	0.81	0.00	0.00	516.00	10.000	**H-7**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*25.03*	*23.68*	*21.32*	*19.62*	*17.15*	*14.26*	
H-8	4.18	0.67	0.38	3.13	0.00	57.14	0.66	0.00	0.00	652.00	10.000	**H-8**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*32.86*	*31.10*	*28.00*	*25.76*	*22.52*	*18.72*	
H-9	1.28	1.28	0.00	0.00	0.00	100.00	0.90	0.00	0.00	613.00	10.000	**H-9**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*13.62*	*12.89*	*11.61*	*10.68*	*9.34*	*7.76*	
MH-18s	58.85	0.00	0.00	58.85	0.00	55.00	0.65	480.00	2590.00	0.00	30.389	**MH-18s**	0.50	3.00	1.50	*6.94*	*6.43*	*5.81*	*5.23*	*4.58*	*3.68*	*265.51*	*245.98*	*222.16*	*199.91*	*175.29*	*140.84*	
MH-12s	2.67	0.00	0.00	2.67	0.00	55.00	0.65	0.00	0.00	553.00	10.000	**MH-12s**	0.50	3.00	1.50	*11.87*	*11.23*	*10.11*	*9.31*	*8.14*	*6.76*	*20.58*	*19.47*	*17.53*	*16.13*	*14.10*	*11.73*	
COH01	57.50	0.00	0.00	57.50	0.00	55.00	0.65	1050.00	0.00	3000.00	68.333	**COH01**	0.50	3.00	1.50	*4.27*	*3.89*	*3.52*	*3.11*	*2.73*	*2.12*	*159.52*	*145.30*	*131.59*	*116.06*	*102.05*	*79.32*	
W43rd	53.06	0.00	21.22	31.84	0.00	33.00	0.53	0.00	2000.00	2700.00	41.111	**W43rd**	0.50	3.00	1.50	*5.83*	*5.37*	*4.85*	*4.34*	*3.81*	*3.02*	*163.97*	*150.96*	*136.48*	*121.92*	*107.02*	*84.98*	
TOTAL	**243.58**	**46.87**	**30.52**	**166.18**	**0.00**	**56.77**	**0.66**																					