

**APPENDIX D
ENGINEERING DESIGN AND ANALYSIS**

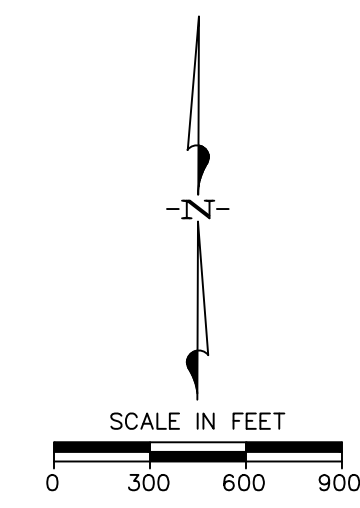
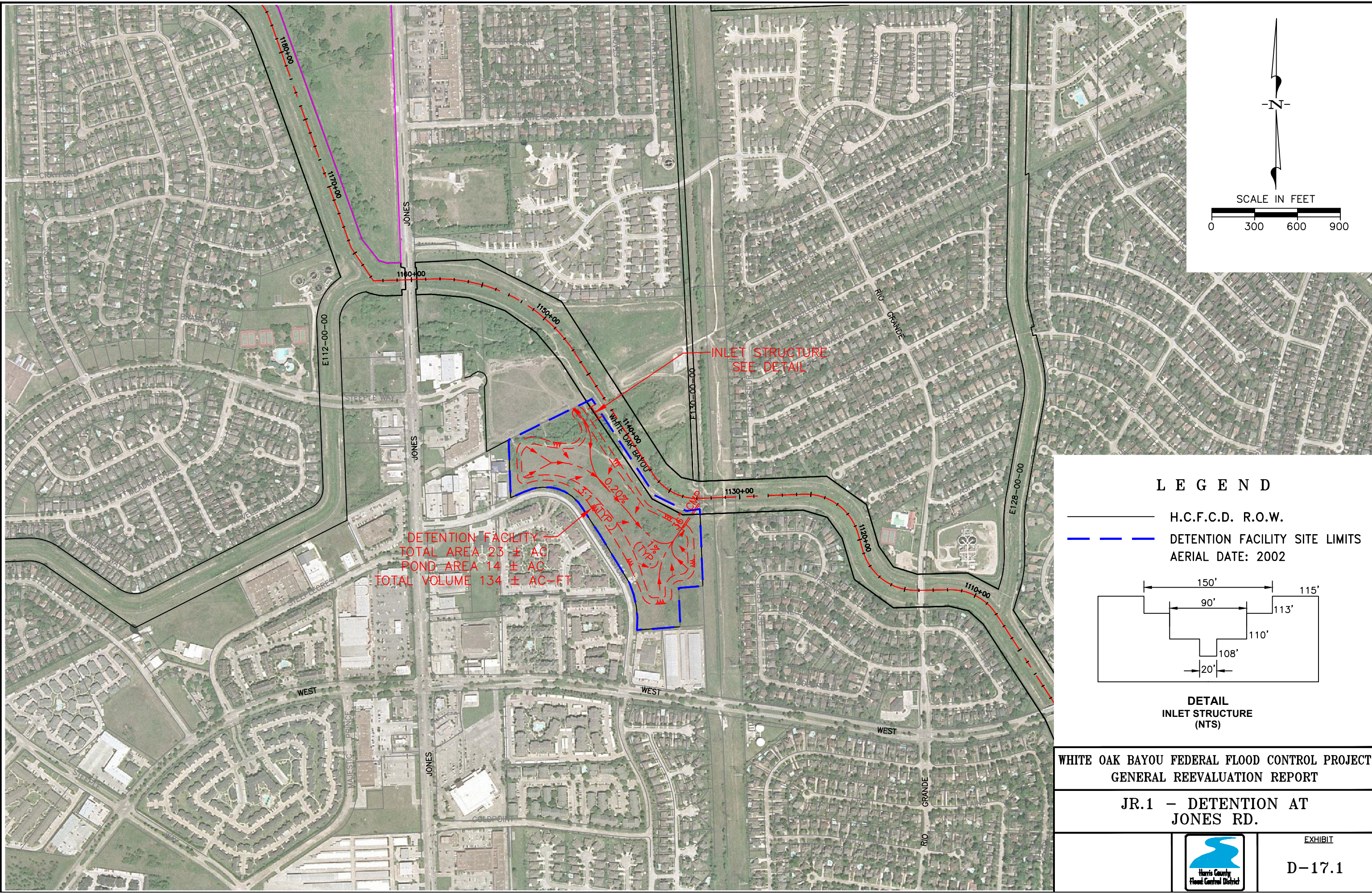
PART 3 – EXHIBITS 17.1 - 29

LIST OF EXHIBITS

EXHIBIT NO.

D-17.1	JR.1 – Detention at Jones Rd
D-17.2	JR.2 – Detention at Jones Rd
D-17.3	JR.3 – Detention at Jones Rd
D-17.4	JR.4 – Detention at Jones Rd
D-17.5	JR.5 – Detention at Jones Rd
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D-19.2	Inwood Forest Levee: LIA Site Layout
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D-25.5	Recommended Plan – TG.2A1: E200H.2A:West Rd. to FM 1960.
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D-27	HOL.3B - Detention at Hollister
D-28	GBW.3 – Detention at Gessner and Beltway 8
D-29	FNH.2 – Detention at Fairbanks-North Houston

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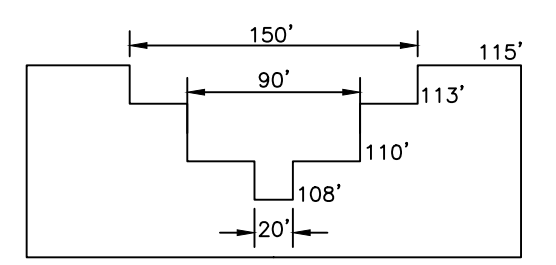


DETENTION FACILITY
 TOTAL AREA 23 ± AC
 POND AREA 14 ± AC
 TOTAL VOLUME 134 ± AC-FT

INLET STRUCTURE
 SEE DETAIL

LEGEND

- H.C.F.C.D. R.O.W.
 - DETENTION FACILITY SITE LIMITS
- AERIAL DATE: 2002



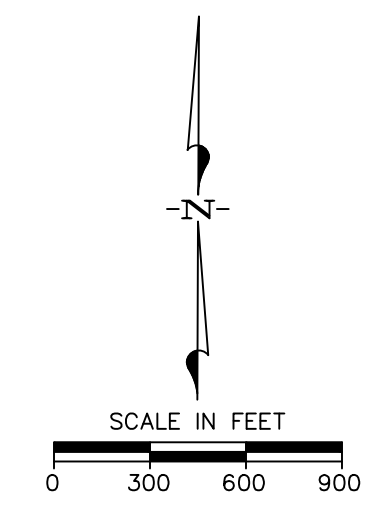
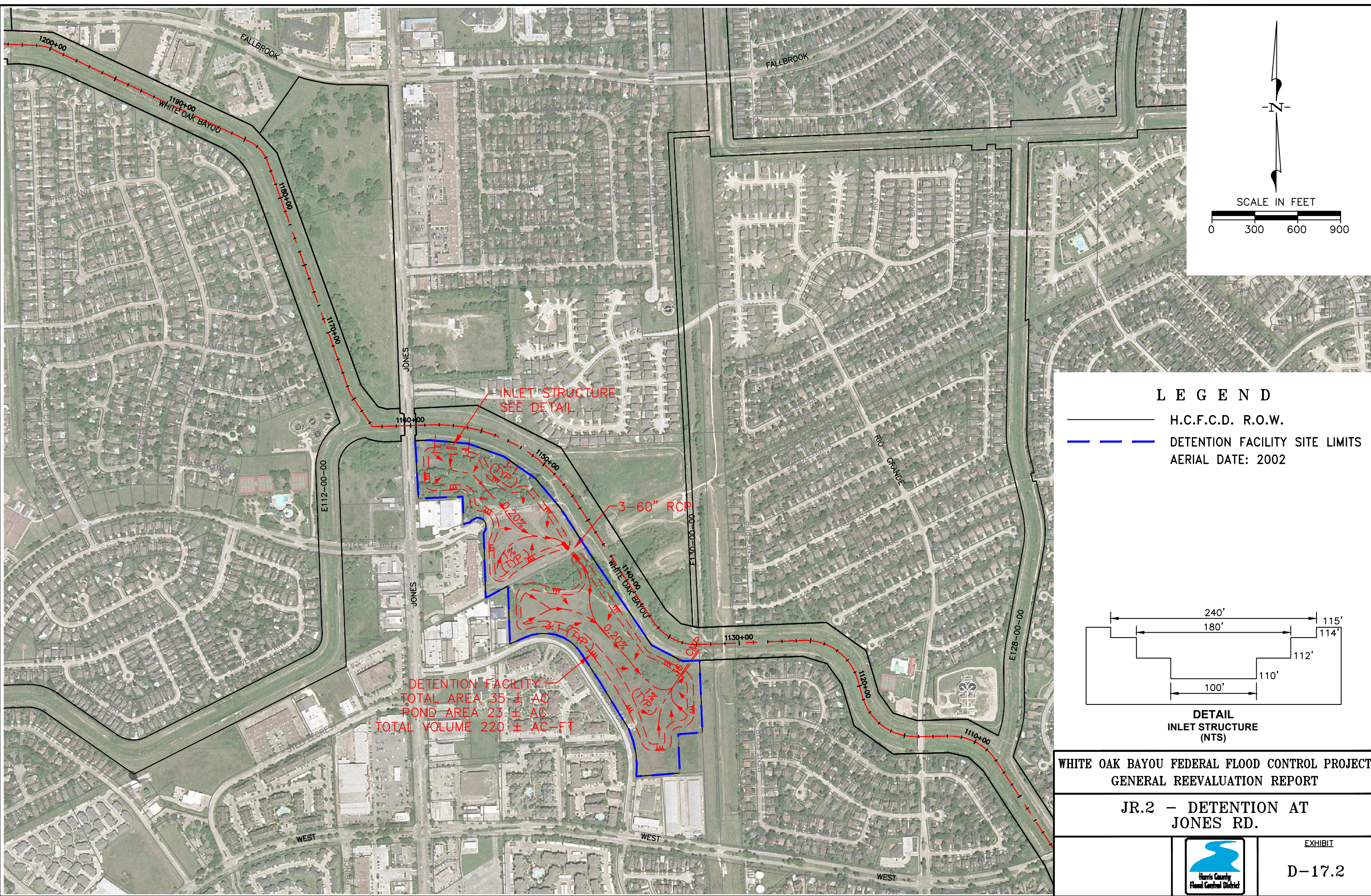
**DETAIL
 INLET STRUCTURE
 (NTS)**

**WHITE OAK BAYOU FEDERAL FLOOD CONTROL PROJECT
 GENERAL REEVALUATION REPORT**

**JR.1 – DETENTION AT
 JONES RD.**

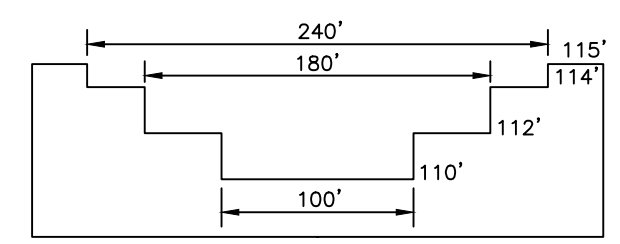


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LEGEND

- H.C.F.C.D. R.O.W.
 - DETENTION FACILITY SITE LIMITS
- AERIAL DATE: 2002



**DETAIL
INLET STRUCTURE
(NTS)**

DETENTION FACILITY
TOTAL AREA 35 ± AC
POND AREA 23 ± AC
TOTAL VOLUME 220 ± AC-FT

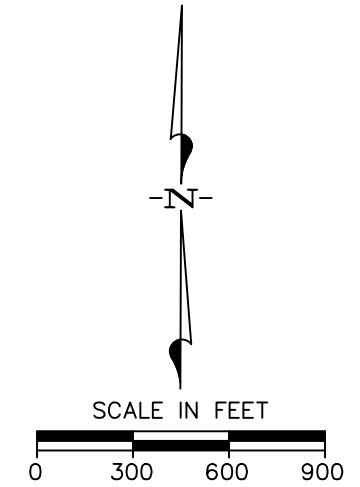
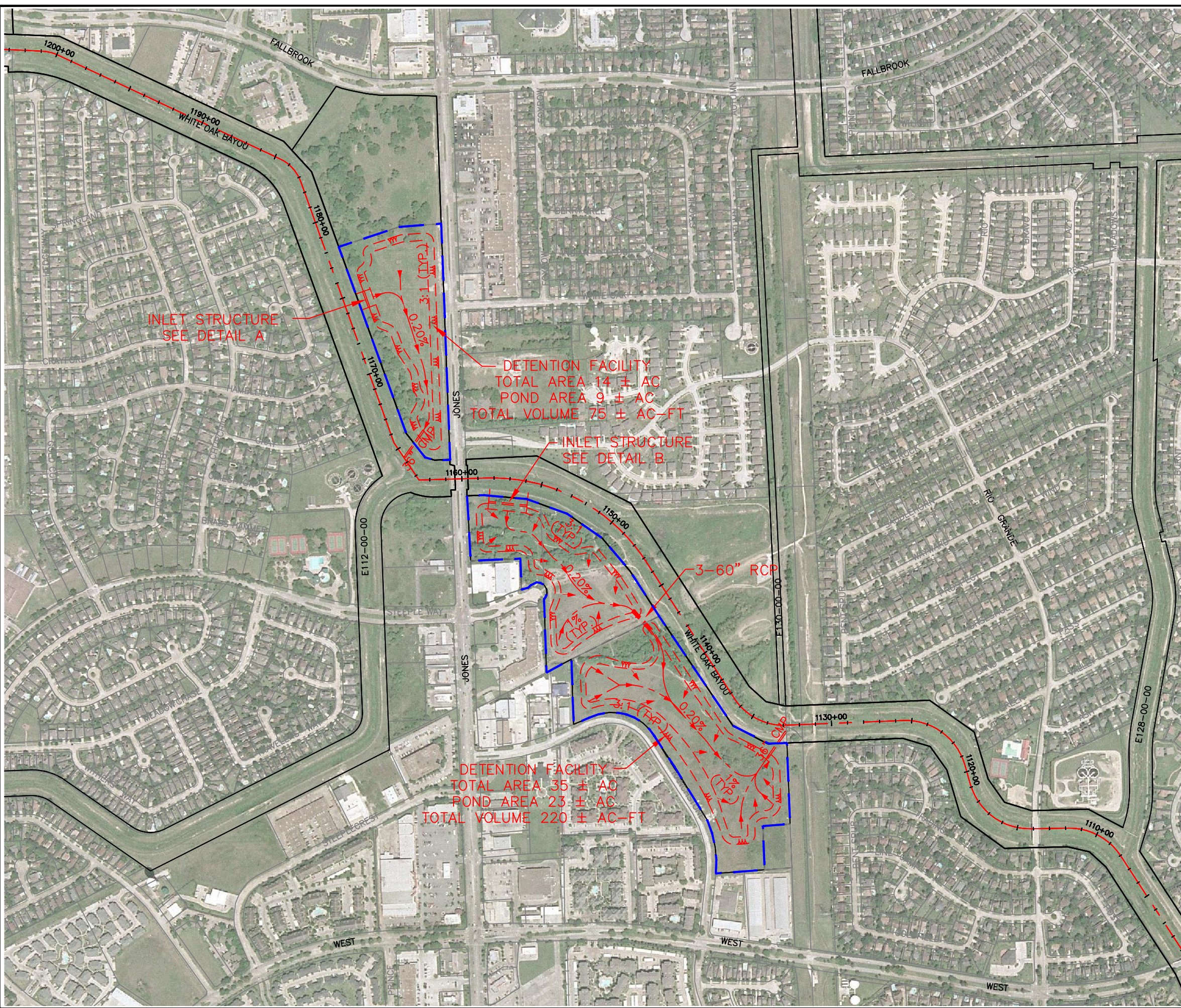
**WHITE OAK BAYOU FEDERAL FLOOD CONTROL PROJECT
GENERAL REEVALUATION REPORT**

**JR.2 - DETENTION AT
JONES RD.**



EXHIBIT
D-17.2

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LEGEND

- H.C.F.C.D. R.O.W.
- DETENTION FACILITY SITE LIMITS

AERIAL DATE: 2002

90' 119.5'

DETAIL A
INLET STRUCTURE (NTS)

240' 115'

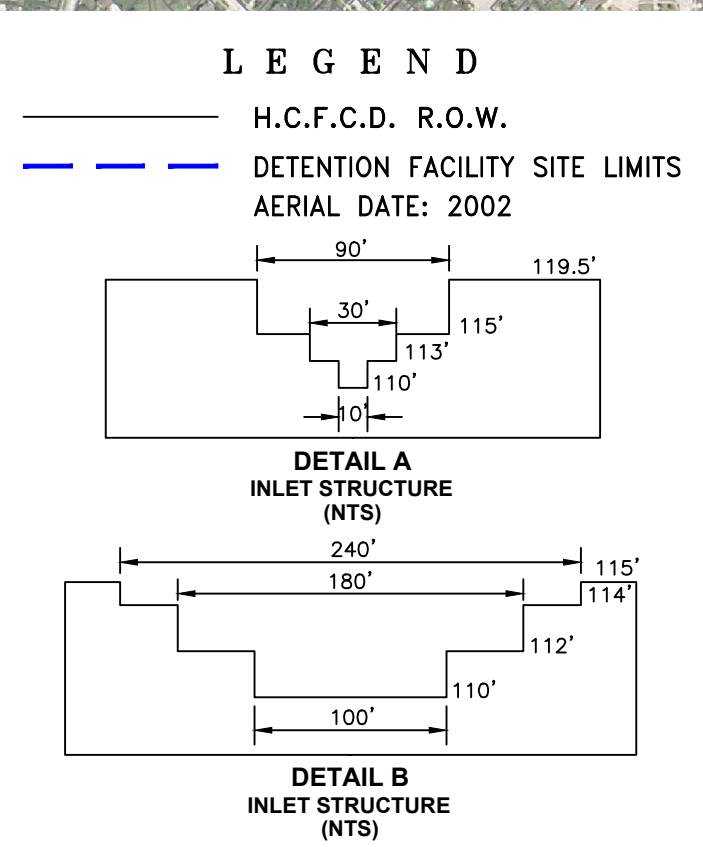
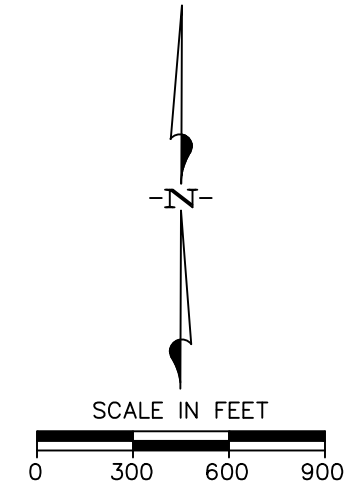
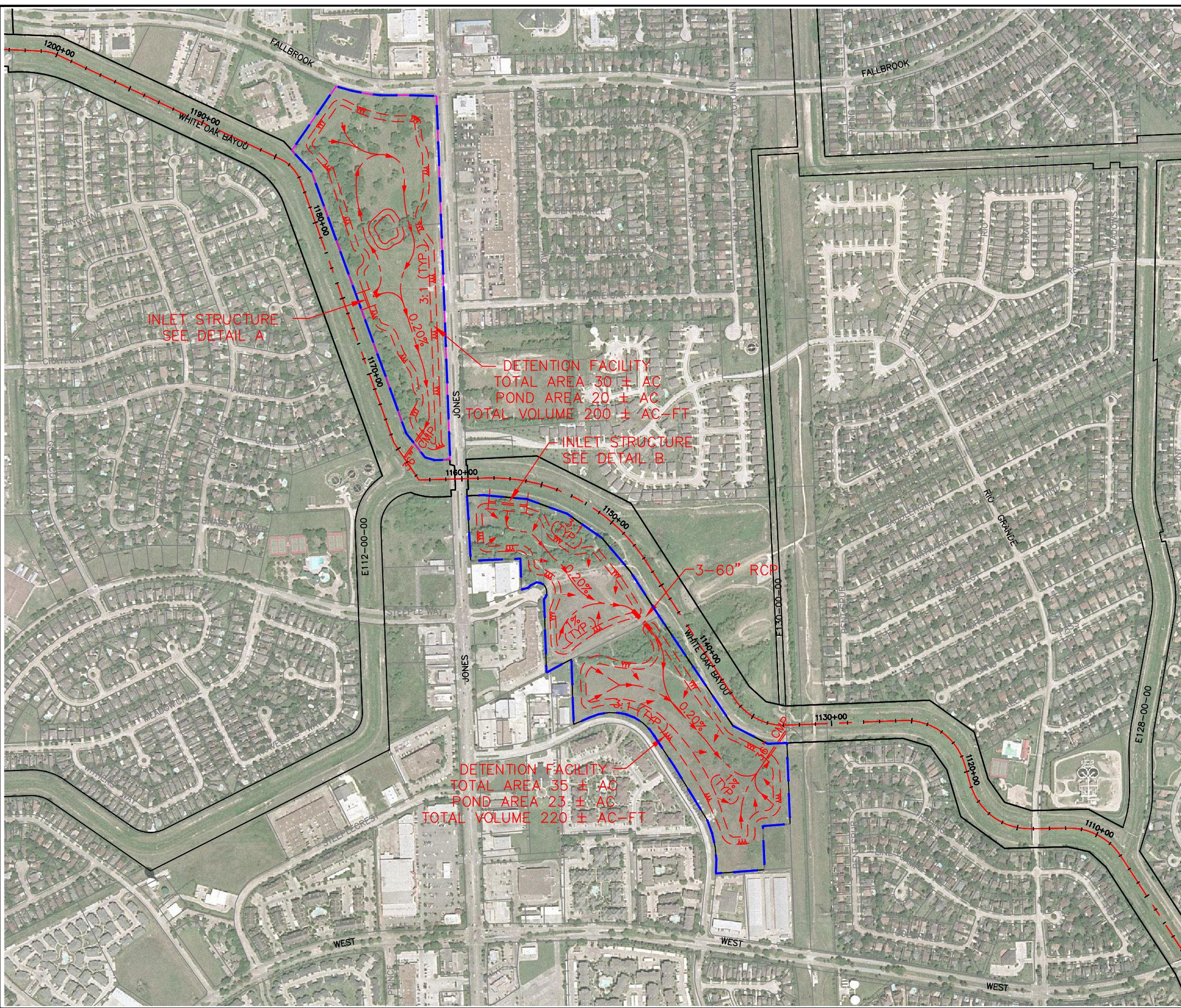
DETAIL B
INLET STRUCTURE (NTS)

**WHITE OAK BAYOU FEDERAL FLOOD CONTROL PROJECT
GENERAL REEVALUATION REPORT**

**JR.3 - DETENTION AT
JONES RD.**



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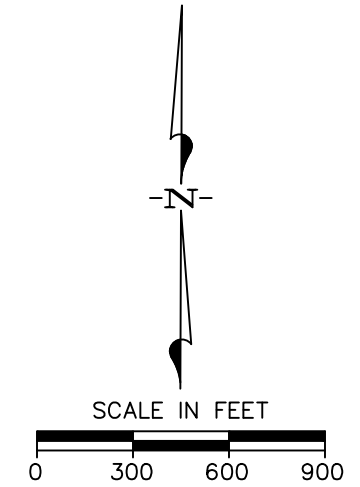
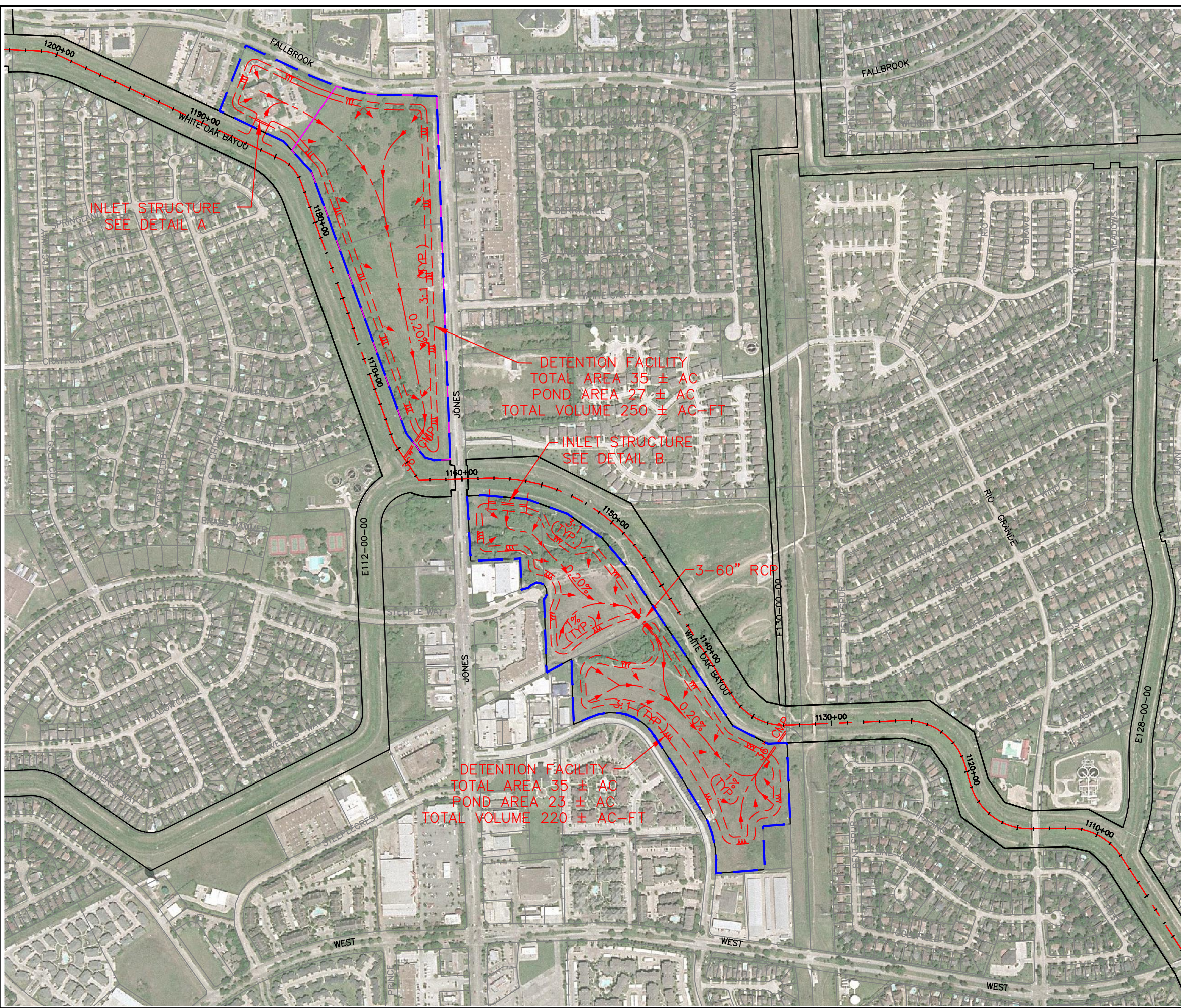


**WHITE OAK BAYOU FEDERAL FLOOD CONTROL PROJECT
GENERAL REEVALUATION REPORT**

**JR.4 - DETENTION AT
JONES RD.**



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LEGEND

————— H.C.F.C.D. R.O.W.
 - - - - - DETENTION FACILITY SITE LIMITS
 AERIAL DATE: 2002

90' 119.5'

DETAIL A
 INLET STRUCTURE
 (NTS)

240' 115'

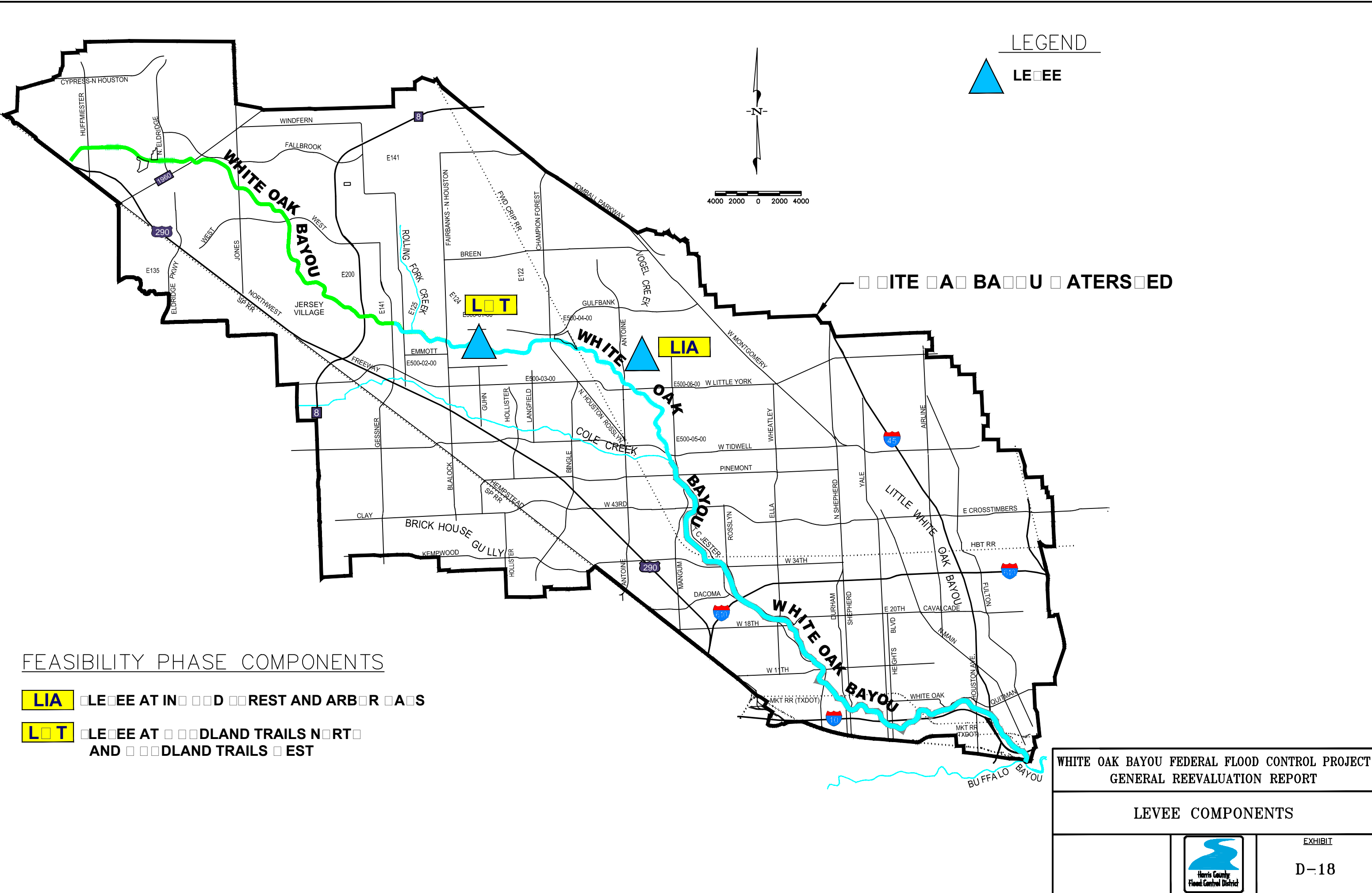
DETAIL B
 INLET STRUCTURE
 (NTS)

**WHITE OAK BAYOU FEDERAL FLOOD CONTROL PROJECT
 GENERAL REEVALUATION REPORT**

**JR.5 - DETENTION AT
 JONES RD.**



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FEASIBILITY PHASE COMPONENTS

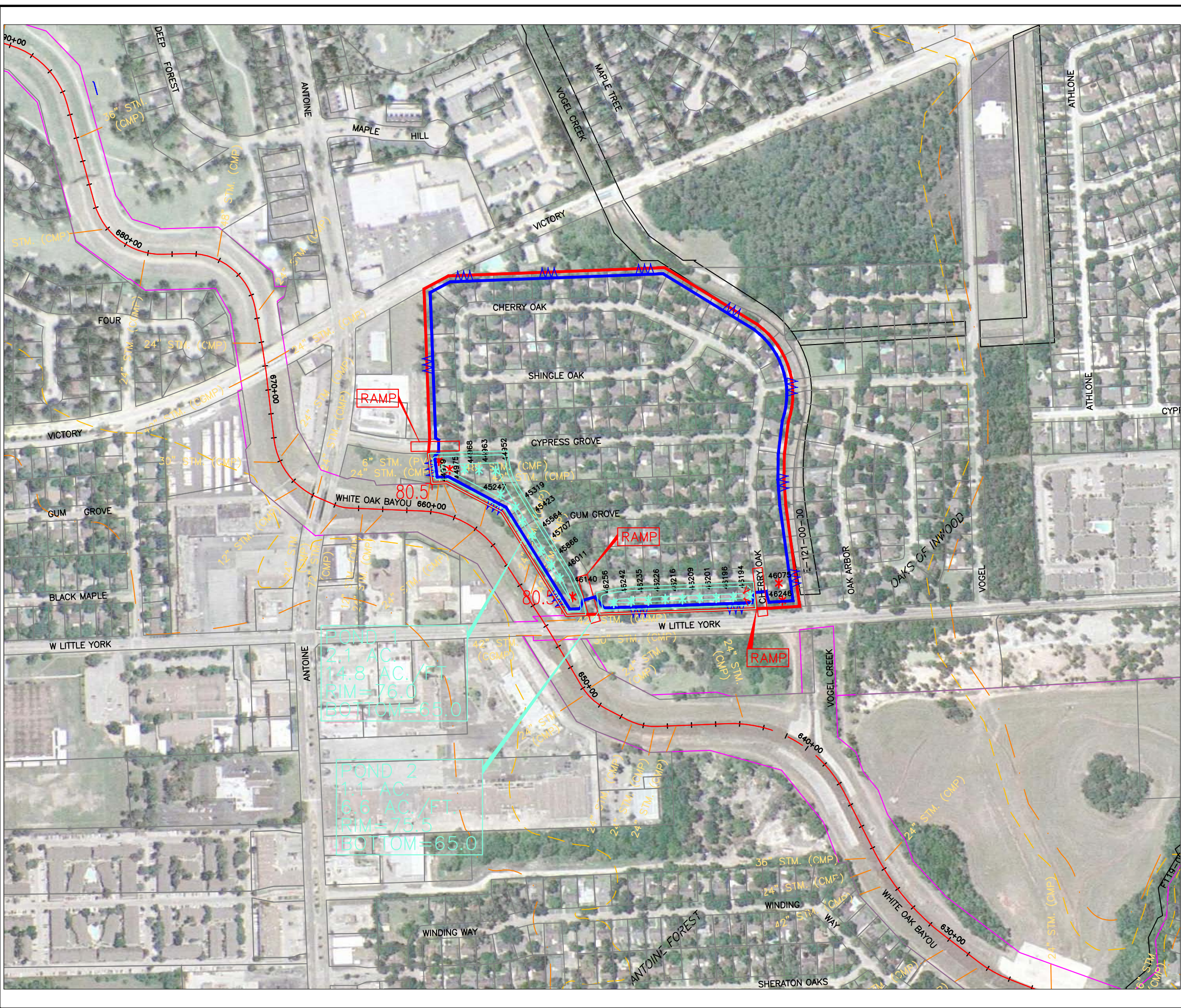
- LIA** LEVEE AT INLAND REST AND ARBORWAYS
- LOT** LEVEE AT LAND TRAILS NORTH AND LAND TRAILS WEST

WHITE OAK BAYOU FEDERAL FLOOD CONTROL PROJECT
GENERAL REEVALUATION REPORT

LEVEE COMPONENTS

	EXHIBIT
	D-18

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2% LEVEE ANALYSIS

ITEM:	UNIT
DRAINAGE AREA (AC)	42
LEVEE (FT)	5230
PARCEL NO.	24
RAMP	3
INTERIOR POND AREA (AC)	3.2
INTERIOR POND VOL. (AC/FT)	21.4



- H.C.F.C.D. R.O.W.
- 500 YEAR FLOOD PLAIN
- - - 100 YEAR FLOOD PLAIN
- DRAINAGE BOUNDARY
- ▨ PROP. LEVEE
- INTERIOR DETENTION



WHITE OAK BAYOU FEDERAL FLOOD CONTROL PROJECT
GENERAL REEVALUATION REPORT

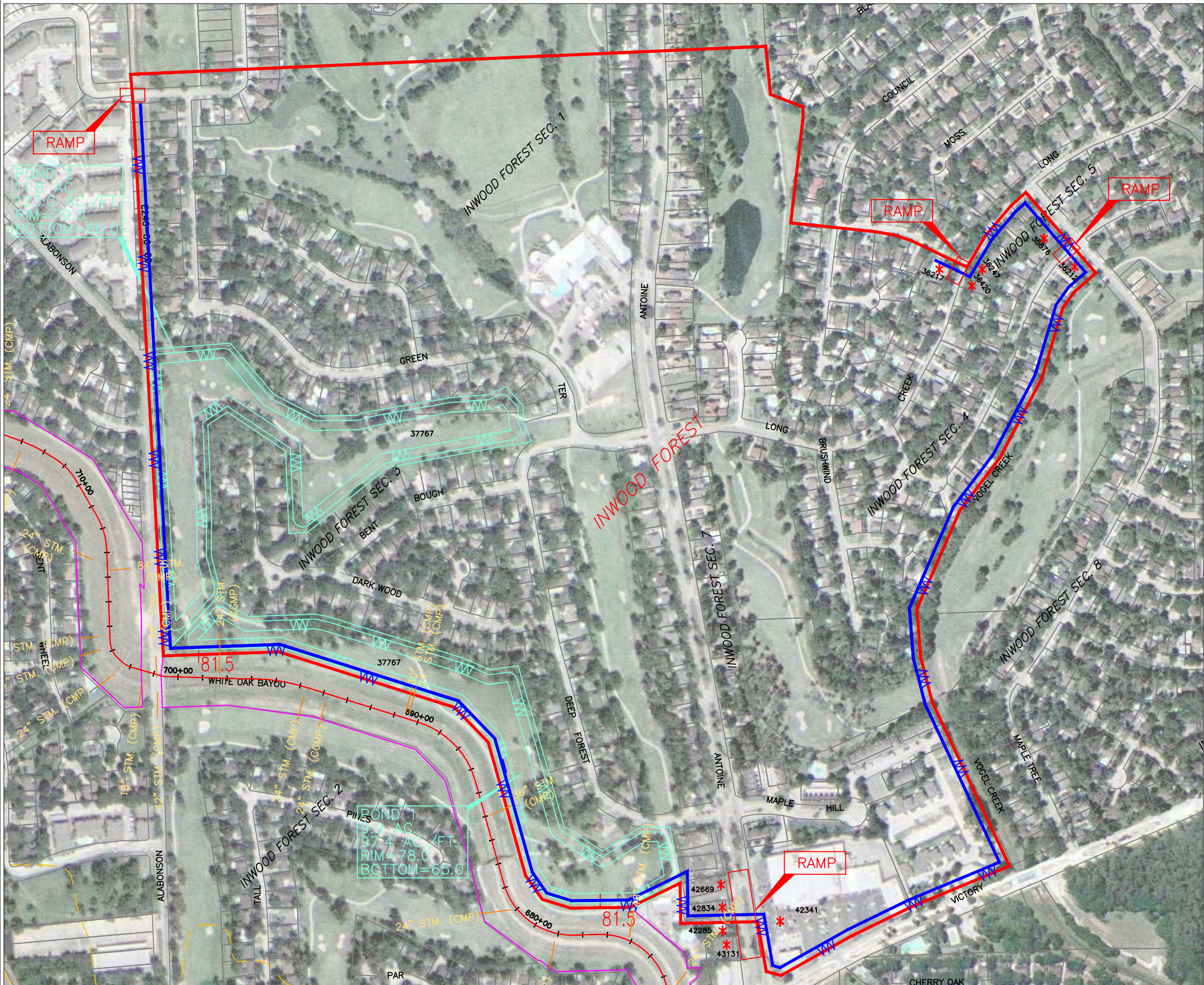
ARBOR OAKS LEVEE: LIA
SITE LAYOUT



EXHIBIT

D-19.1

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2% LEVEE ANALYSIS

ITEM:	UNIT
DRAINAGE AREA (AC)	228
LEVEE (FT)	10210
PARCEL NO.	11
RAMP	4
INTERIOR POND AREA (AC)	21.7
INTERIOR POND VOL. (AC/FT)	220.4



LEGEND

- H.C.F.C.D. R.O.W.
- - - 500 YEAR FLOOD PLAIN
- - - 100 YEAR FLOOD PLAIN
- DRAINAGE BOUNDARY
- W W PROP. LEVEE
- INTERIOR DETENTION



WHITE OAK BAYOU FEDERAL FLOOD CONTROL PROJECT
GENERAL REEVALUATION REPORT

INWOOD FOREST LEVEE: LIA
SITE LAYOUT



EXHIBIT
D-19.2

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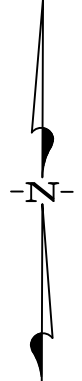


POND 1
7.2 AC
63.9 AC/FT
RIM=91.0
BOTTOM=89.0

POND 2
14.0 AC
140.7 AC/FT
RIM=91.0
BOTTOM=79.7

2% LEVEE ANALYSIS

ITEM:	UNIT
DRAINAGE AREA (AC)	359
LEVEE (FT)	8830
PARCEL NO.	6
RAMP	1
INTERIOR POND AREA (AC)	21.2
INTERIOR POND VOL. (AC/FT)	204.6



LEGEND

- H.C.F.C.D. R.O.W.
- - - 500 YEAR FLOOD PLAIN
- - - 100 YEAR FLOOD PLAIN
- DRAINAGE BOUNDARY
- = PROP. LEVEE
- INTERIOR DETENTION



WHITE OAK BAYOU FEDERAL FLOOD CONTROL PROJECT
GENERAL REEVALUATION REPORT

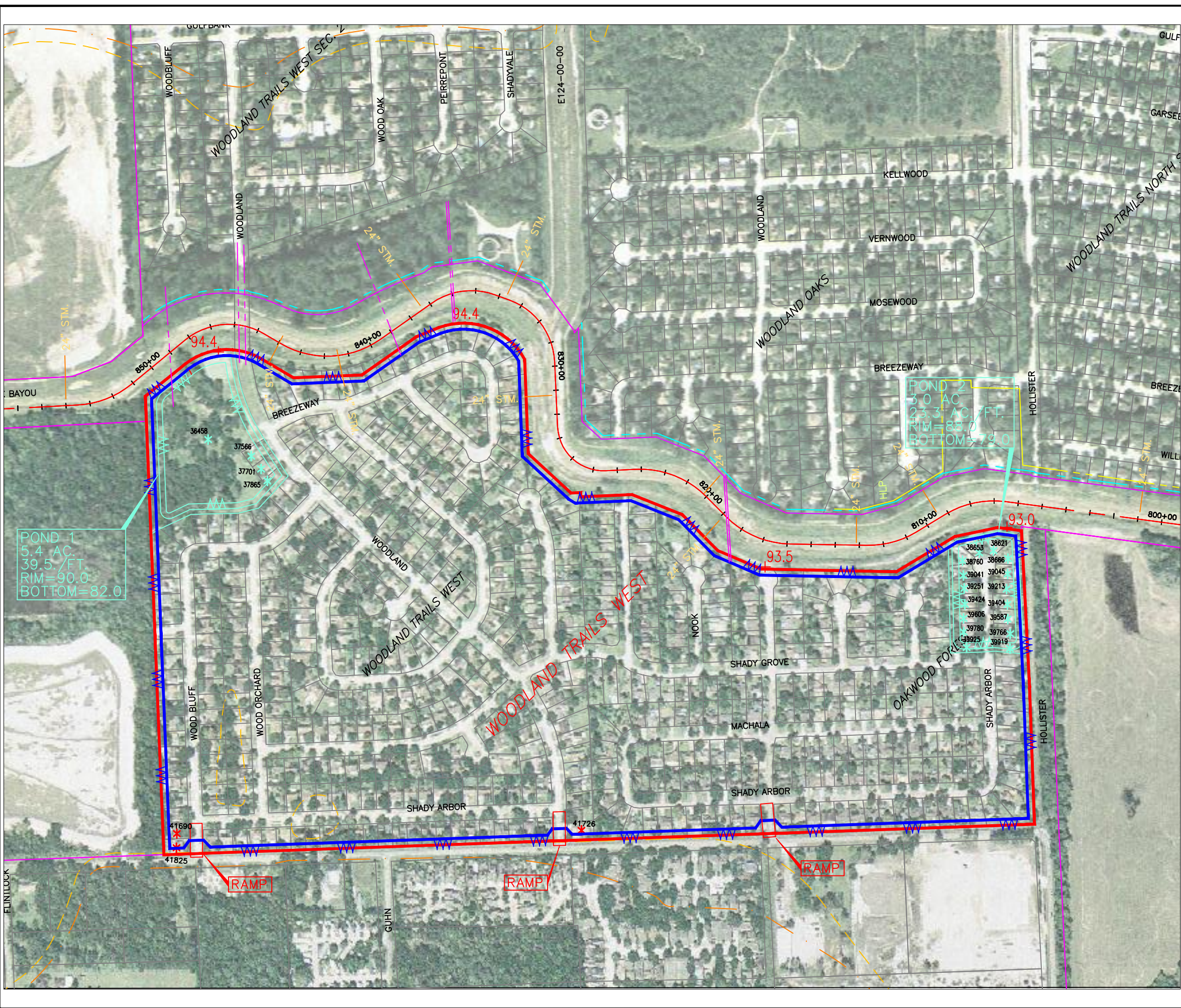
WOODLAND TRAILS NORTH LEVEE: LWT
SITE LAYOUT



EXHIBIT

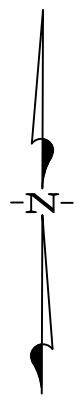
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2% LEVEE ANALYSIS

ITEM:	UNIT
DRAINAGE AREA (AC)	132
LEVEE (FT)	11050
PARCEL NO.	23
RAMP	3
INTERIOR POND AREA (AC)	21.7
INTERIOR POND VOL. (AC/FT)	220.4



LEGEND

- H.C.F.C.D. R.O.W.
- 500 YEAR FLOOD PLAIN
- - - 100 YEAR FLOOD PLAIN
- DRAINAGE BOUNDARY
- / - / - PROP. LEVEE
- INTERIOR DETENTION



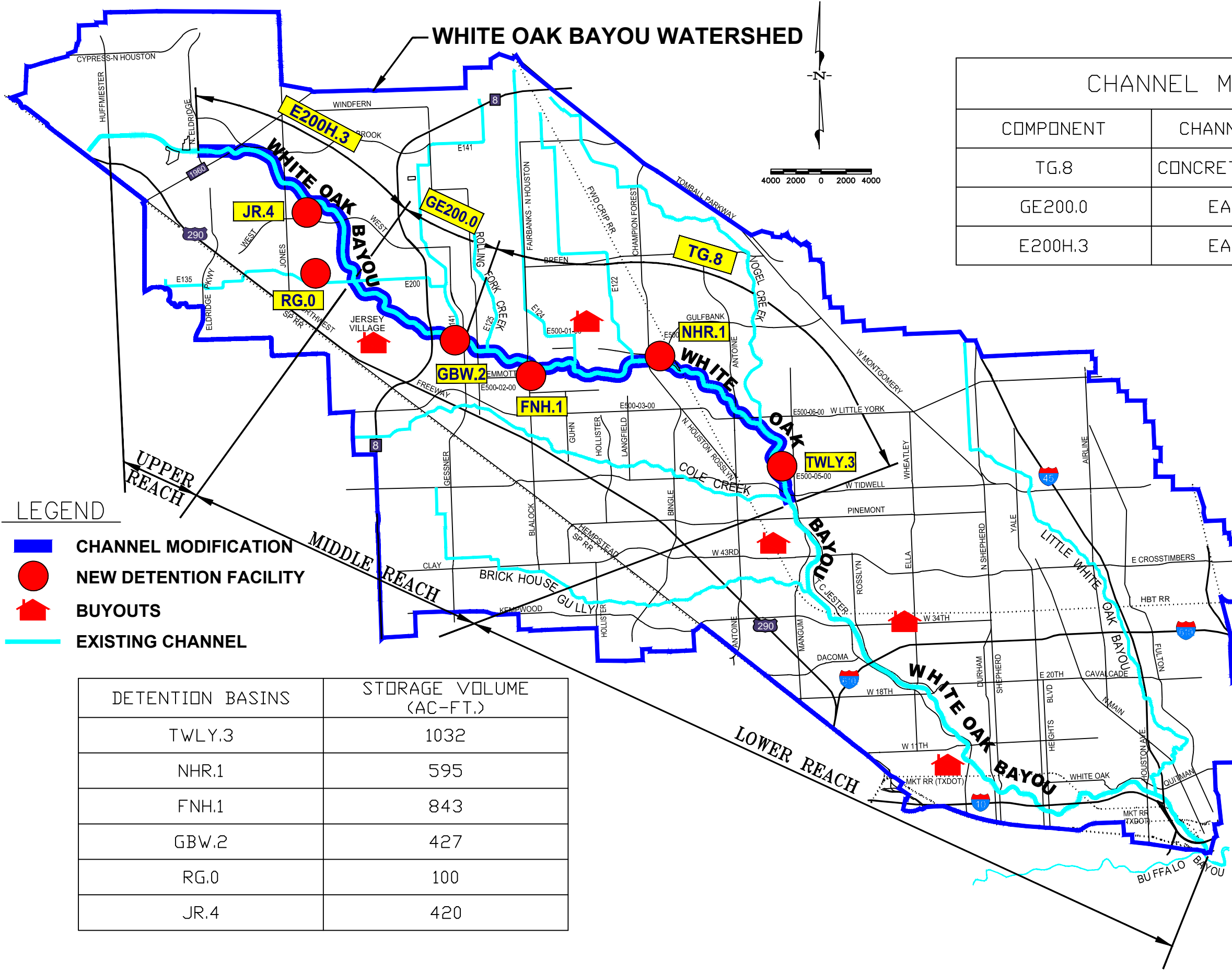
WHITE OAK BAYOU FEDERAL FLOOD CONTROL PROJECT
GENERAL REEVALUATION REPORT

WOODLAND TRAILS WEST LEVEE: LWT
SITE LAYOUT



EXHIBIT
D-20.2

FILE INFO: I:\Projects\10344\1607\APPENDIX D\EXHIBITS\0-21\0-21.dwg MODIFIED: Sep 14, 2012 1:57pm BY: agraceoae PLOTTED: Sep 17, 2012 4:05pm PLOT SCALE: 1=4000



COMPONENT	CHANNEL TYPE	TYPICAL BOTTOM WIDTH (FT.)
TG.8	CONCRETE - LINED	80'-90'
GE200.0	EARTHEN	30'-0"
E200H.3	EARTHEN	60'-100'


LEGEND

- █ CHANNEL MODIFICATION
- NEW DETENTION FACILITY
- BUYOUTS
- EXISTING CHANNEL

DETENTION BASINS	STORAGE VOLUME (AC-FT.)
TWLY.3	1032
NHR.1	595
FNH.1	843
GBW.2	427
RG.0	100
JR.4	420

**WHITE OAK BAYOU FEDERAL FLOOD CONTROL PROJECT
GENERAL REEVALUATION REPORT**

ANCHOR TG.8 FORMULATED PLAN



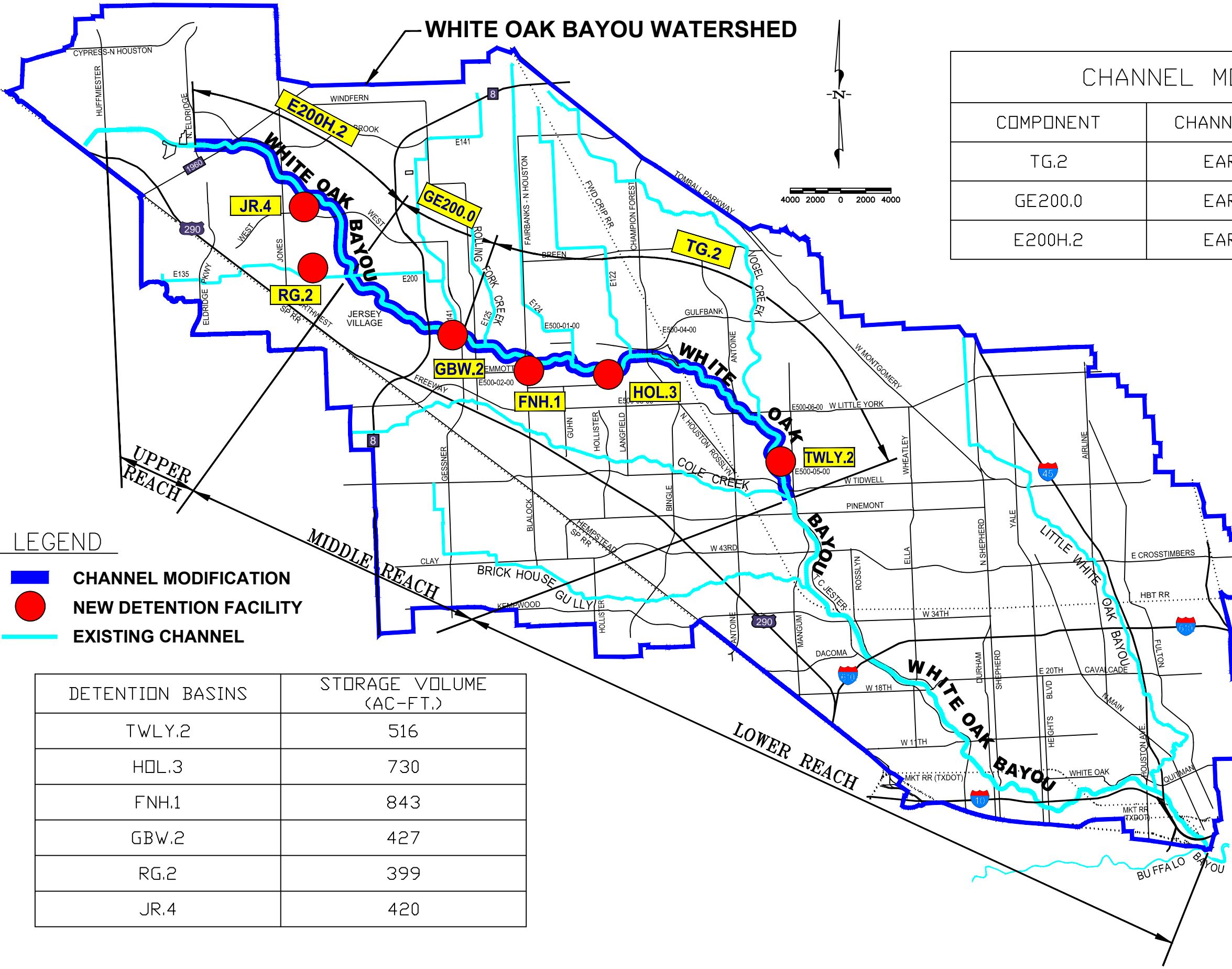
Harris County
Flood Control District

EXHIBIT

D-21

WHITE OAK BAYOU WATERSHED

COMPONENT	CHANNEL TYPE	TYPICAL BOTTOM WIDTH (FT.)
TG.2	EARTHEN	50'-60'
GE200.0	EARTHEN	30'-0"
E200H.2	EARTHEN	50'-80'



LEGEND

- █ CHANNEL MODIFICATION
- NEW DETENTION FACILITY
- █ EXISTING CHANNEL

DETENTION BASINS	STORAGE VOLUME (AC-FT.)
TWLY.2	516
HOL.3	730
FNH.1	843
GBW.2	427
RG.2	399
JR.4	420

WHITE OAK BAYOU FEDERAL FLOOD CONTROL PROJECT
GENERAL REEVALUATION REPORT

ANCHOR TG.2 FORMULATED PLAN

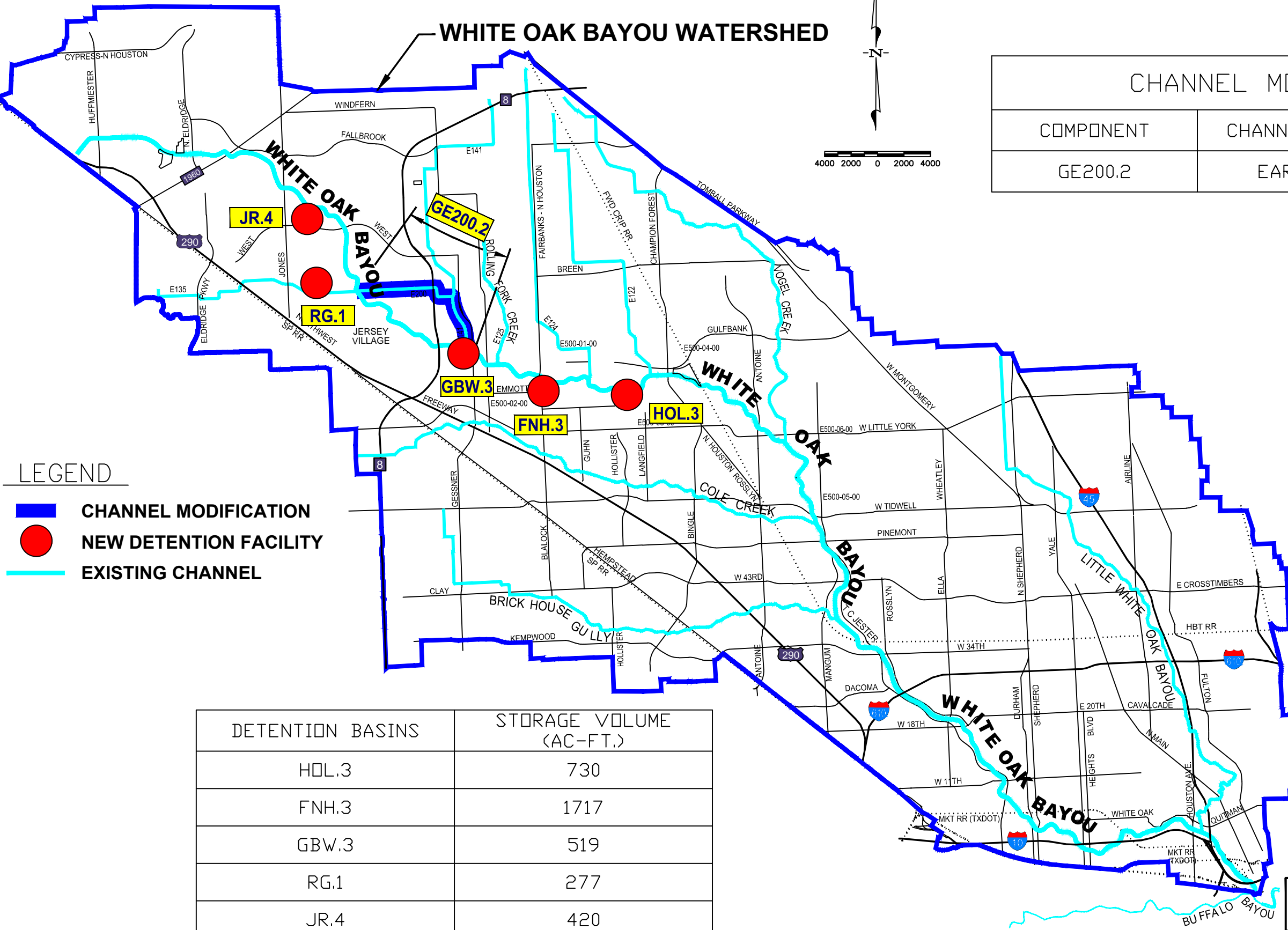
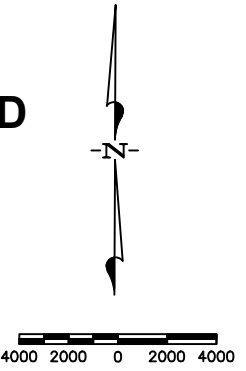


EXHIBIT
D-22

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WHITE OAK BAYOU WATERSHED

CHANNEL MODIFICATIONS		
COMPONENT	CHANNEL TYPE	TYPICAL BOTTOM WIDTH (FT.)
GE200.2	EARTHEN	50'-80'



LEGEND

- █ CHANNEL MODIFICATION
- NEW DETENTION FACILITY
- █ EXISTING CHANNEL

DETENTION BASINS	STORAGE VOLUME (AC-FT.)
HOL.3	730
FNH.3	1717
GBW.3	519
RG.1	277
JR.4	420

WHITE OAK BAYOU FEDERAL FLOOD CONTROL PROJECT GENERAL REEVALUATION REPORT

ANCHOR FNH.3 & JR.4 FORMULATED PLAN

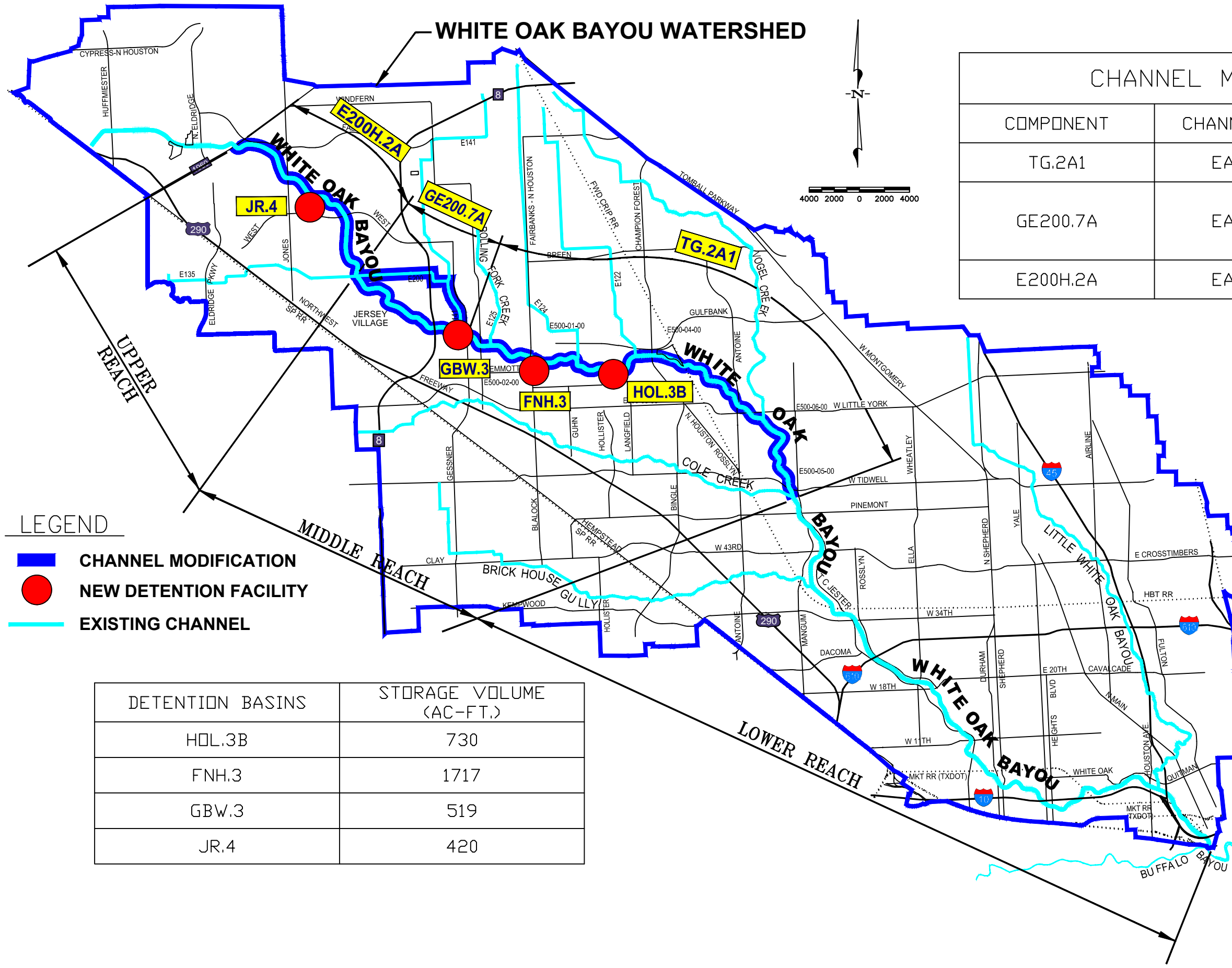


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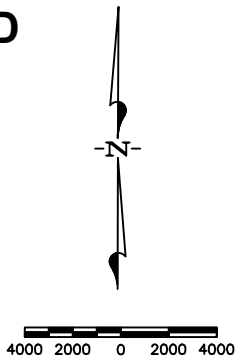
D-23

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WHITE OAK BAYOU WATERSHED



CHANNEL MODIFICATIONS		
COMPONENT	CHANNEL TYPE	TYPICAL BOTTOM WIDTH (FT.)
TG.2A1	EARTHEN	50'-60'
GE200.7A	EARTHEN	30'-80' (WITH GABIONS FOR EROSION PROTECTION)
E200H.2A	EARTHEN	50'-80'

LEGEND

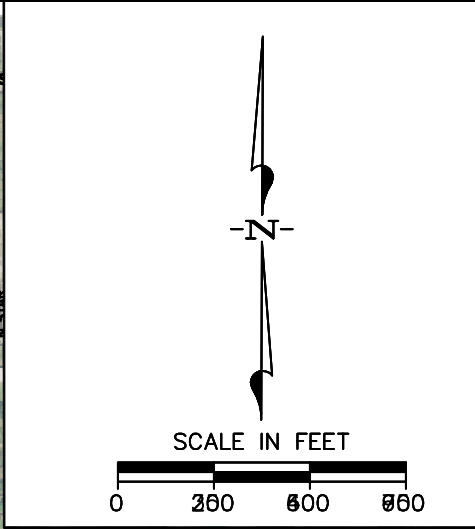
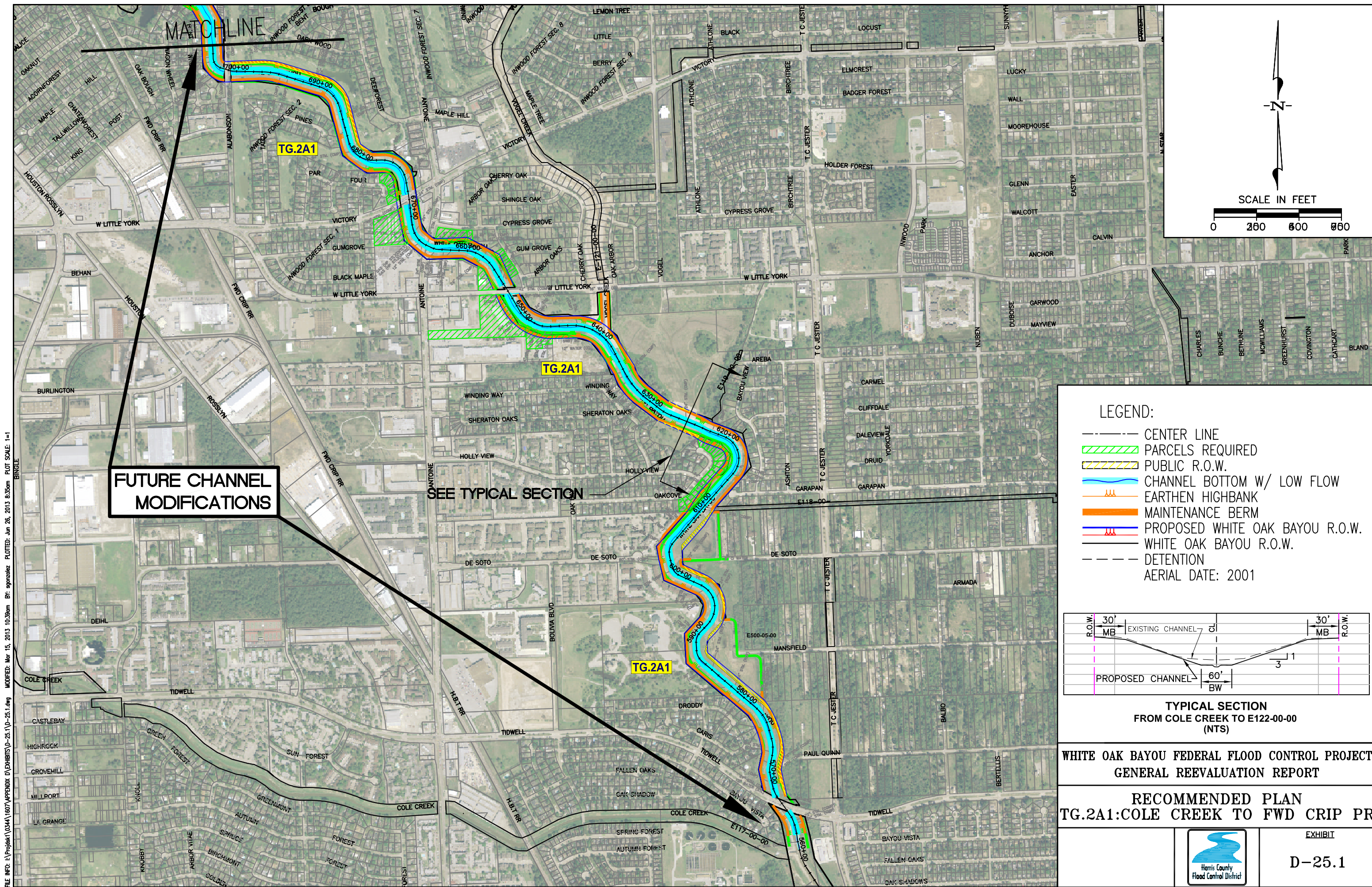
- █ CHANNEL MODIFICATION
- NEW DETENTION FACILITY
- █ EXISTING CHANNEL

DETENTION BASINS	STORAGE VOLUME (AC-FT.)
HOL.3B	730
FNH.3	1717
GBW.3	519
JR.4	420

**WHITE OAK BAYOU FEDERAL FLOOD CONTROL PROJECT
GENERAL REEVALUATION REPORT**

RECOMMENDED PLAN

	EXHIBIT
	D-24

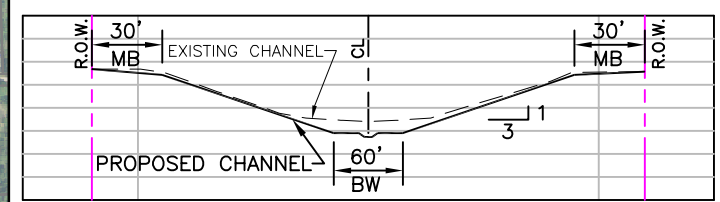


FUTURE CHANNEL MODIFICATIONS

SEE TYPICAL SECTION

LEGEND:

- CENTER LINE
 - ▨ PARCELS REQUIRED
 - ▨ PUBLIC R.O.W.
 - CHANNEL BOTTOM W/ LOW FLOW
 - EARTHEN HIGHBANK
 - MAINTENANCE BERM
 - PROPOSED WHITE OAK BAYOU R.O.W.
 - WHITE OAK BAYOU R.O.W.
 - DETENTION
- AERIAL DATE: 2001



TYPICAL SECTION FROM COLE CREEK TO E122-00-00 (NTS)

**WHITE OAK BAYOU FEDERAL FLOOD CONTROL PROJECT
GENERAL REEVALUATION REPORT**

**RECOMMENDED PLAN
TG.2A1: COLE CREEK TO FWD CRIP PR**

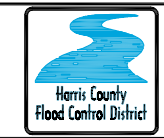
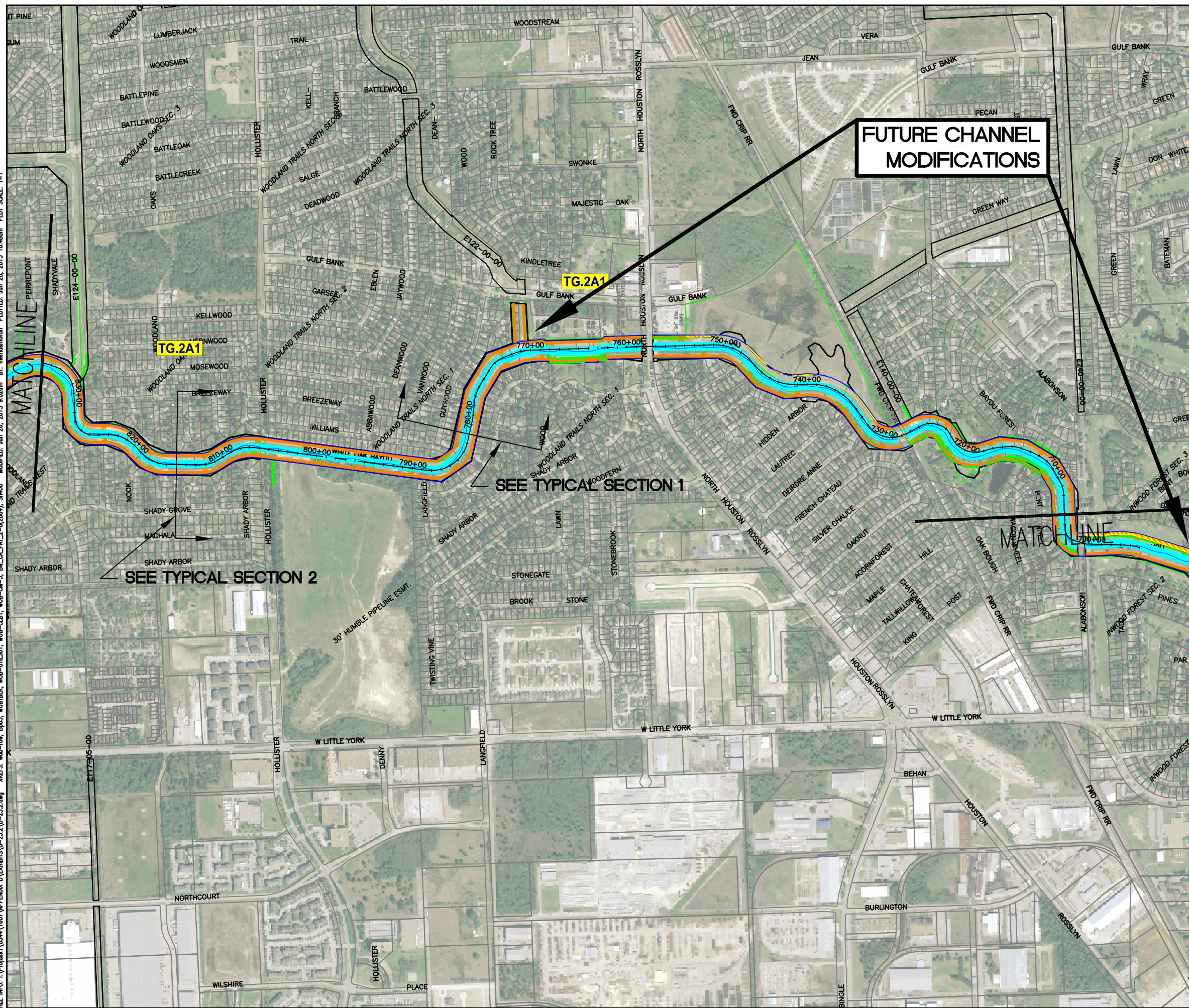


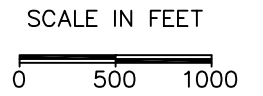
EXHIBIT
D-25.1

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FUTURE CHANNEL MODIFICATIONS

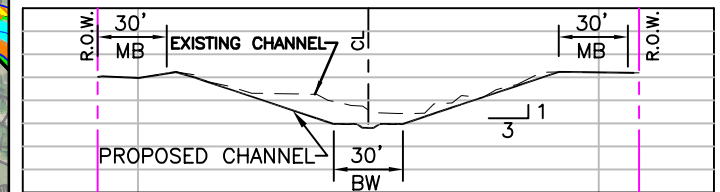


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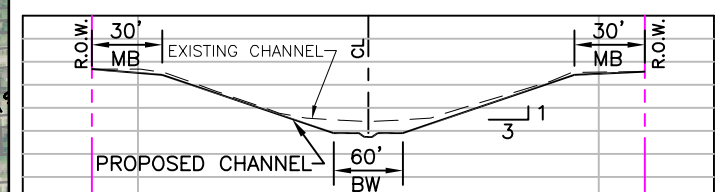
- CENTER LINE
 - ▨ PARCELS REQUIRED
 - ▨ PUBLIC R.O.W.
 - CHANNEL BOTTOM W/ LOW FLOW
 - EARTHEN HIGHBANK
 - MAINTENANCE BERM
 - PROPOSED WHITE OAK BAYOU R.O.W.
 - WHITE OAK BAYOU R.O.W.
 - DETENTION
- AERIAL DATE: 2001

SEE TYPICAL SECTION 2

SEE TYPICAL SECTION 1



TYPICAL SECTION 2
FROM E122-00-00 TO GESSNER
(NTS)



TYPICAL SECTION 1
FROM COLE CREEK TO E122-00-00
(NTS)

**WHITE OAK BAYOU FEDERAL FLOOD CONTROL PROJECT
GENERAL REEVALUATION REPORT**

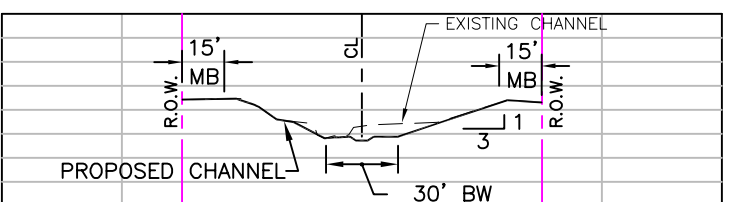
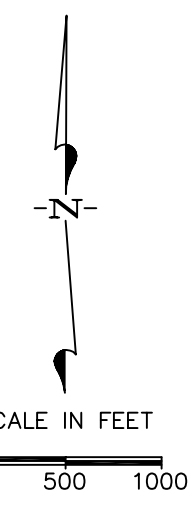
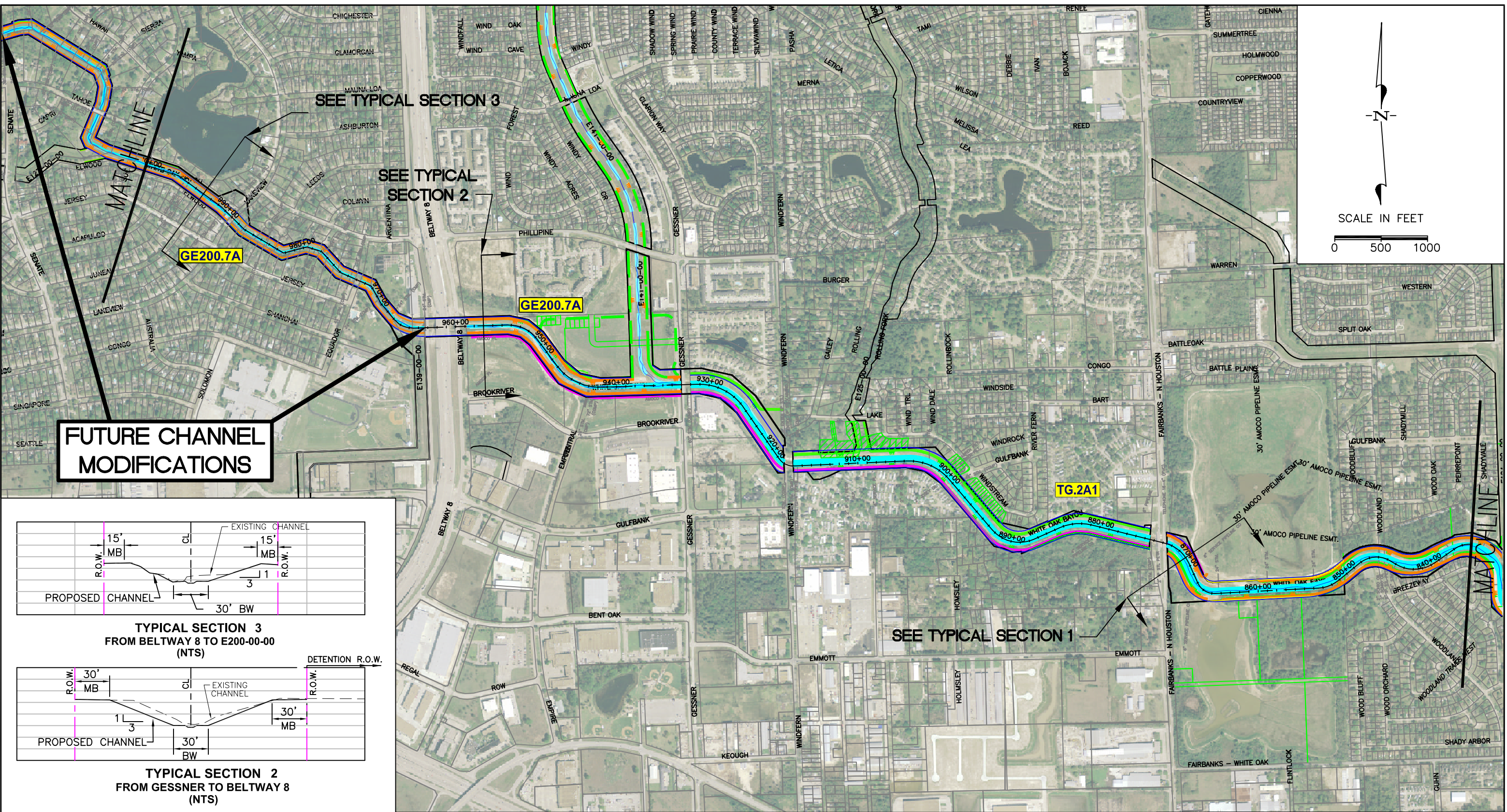
**RECOMMENDED PLAN
TG.2A1: FWD CRIP RR TO SHADYVALE**



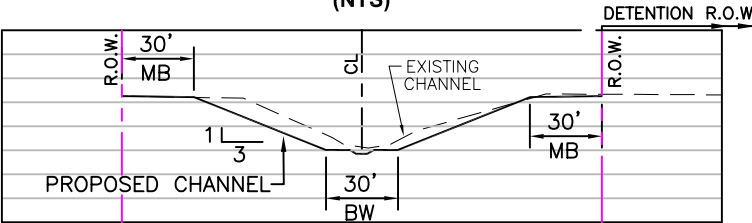
EXHIBIT

D-25.2

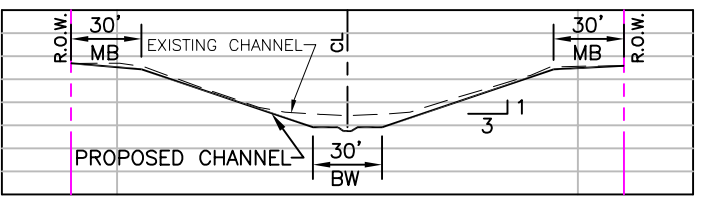
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 MODIFIED: Mar 11, 2013 1:30pm BY: hemannoren PLOTTED: Jun 28, 2013 9:44am PLOT SCALE: 1=1



TYPICAL SECTION 3
FROM BELTWAY 8 TO E200-00-00
(NTS)



TYPICAL SECTION 2
FROM GESSNER TO BELTWAY 8
(NTS)



TYPICAL SECTION 1
FROM E122-00-00 TO GESSNER
(NTS)

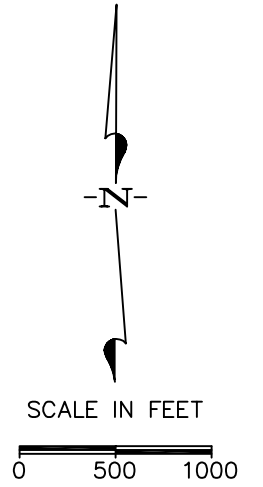
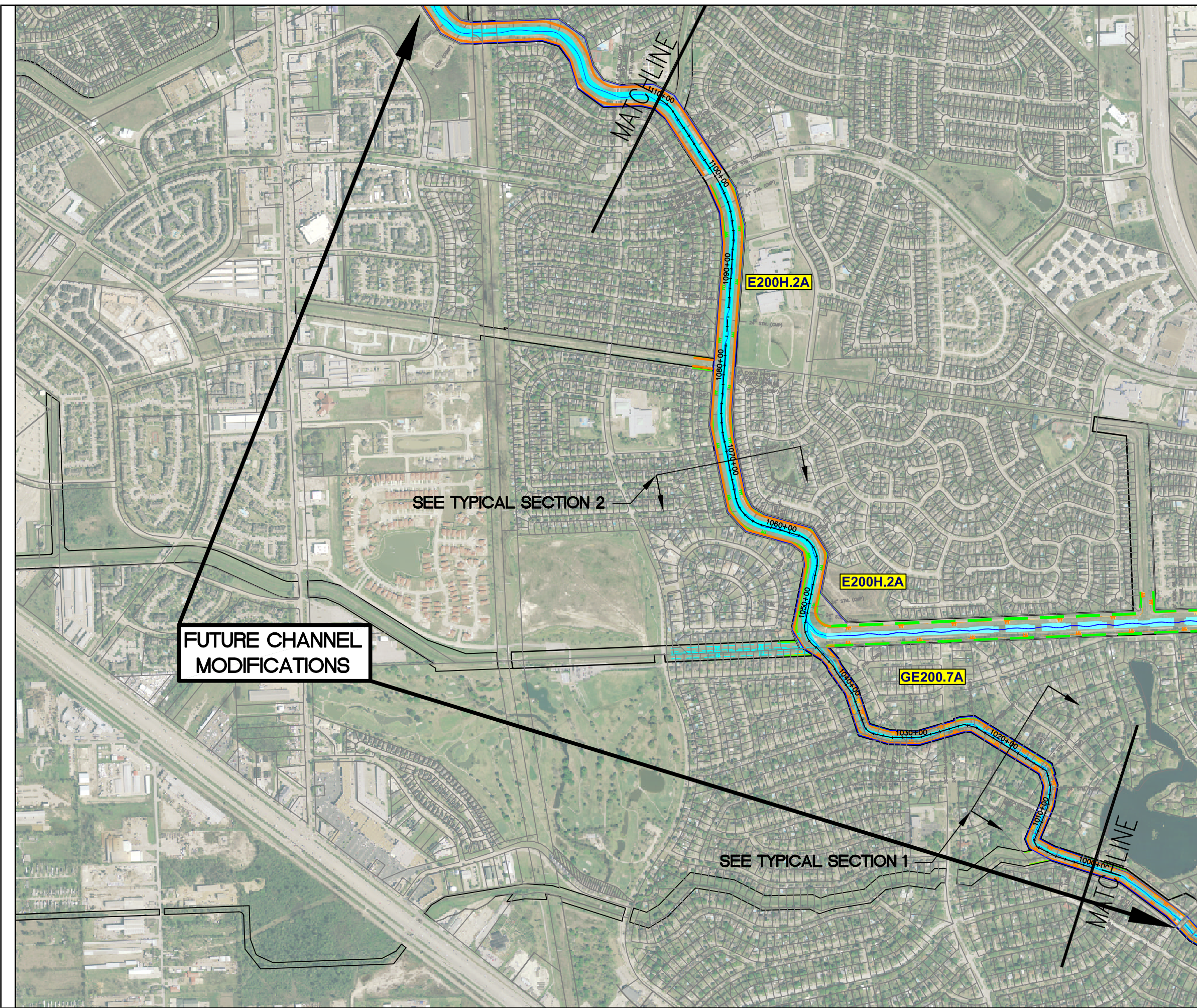
- LEGEND:**
- CENTER LINE
 - PARCELS REQUIRED
 - PUBLIC R.O.W.
 - CHANNEL BOTTOM W/ LOW FLOW
 - EARTHEN HIGHBANK
 - MAINTENANCE BERM
 - PROPOSED WHITE OAK BAYOU R.O.W.
 - WHITE OAK BAYOU R.O.W.
 - DETENTION
- AERIAL DATE: 2001

**WHITE OAK BAYOU FEDERAL FLOOD CONTROL PROJECT
GENERAL REEVALUATION REPORT**

**RECOMMENDED PLAN
TG.2A1:SHADYVALE TO GE200.7A:SUE**

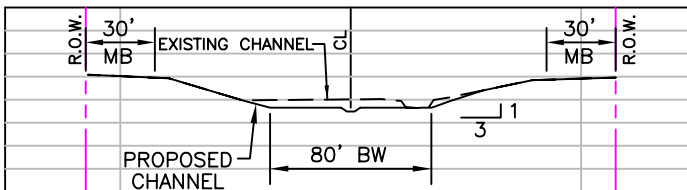


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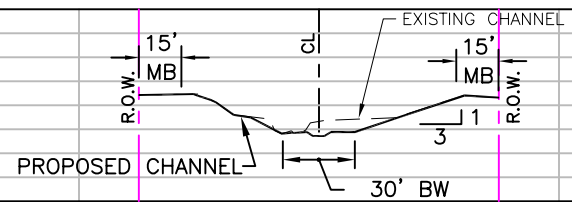


LEGEND:

- CENTER LINE
 - ▨ PARCELS REQUIRED
 - CHANNEL BOTTOM W/ LOW FLOW
 - EARTHEN HIGHBANK
 - MAINTENANCE BERM
 - PROPOSED WHITE OAK BAYOU R.O.W.
 - WHITE OAK BAYOU R.O.W.
 - DETENTION
- AERIAL DATE: 2001



TYPICAL SECTION 2
FROM E200-00-00 TO WEST RD.
(NTS)



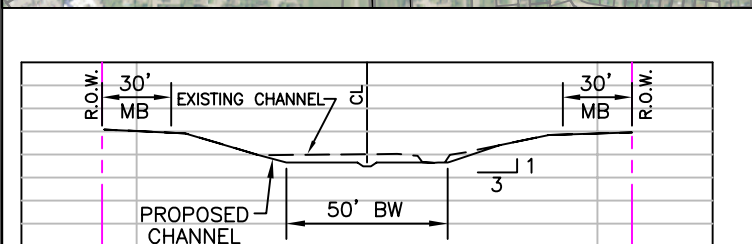
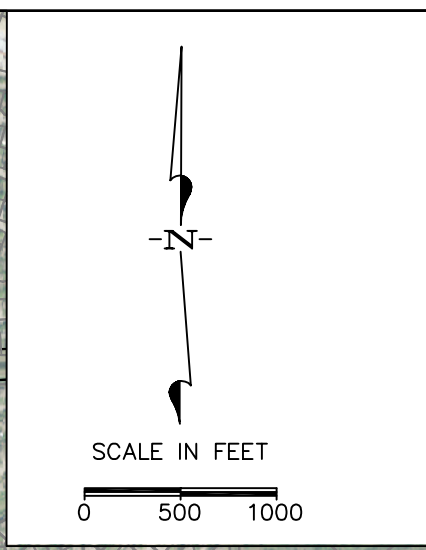
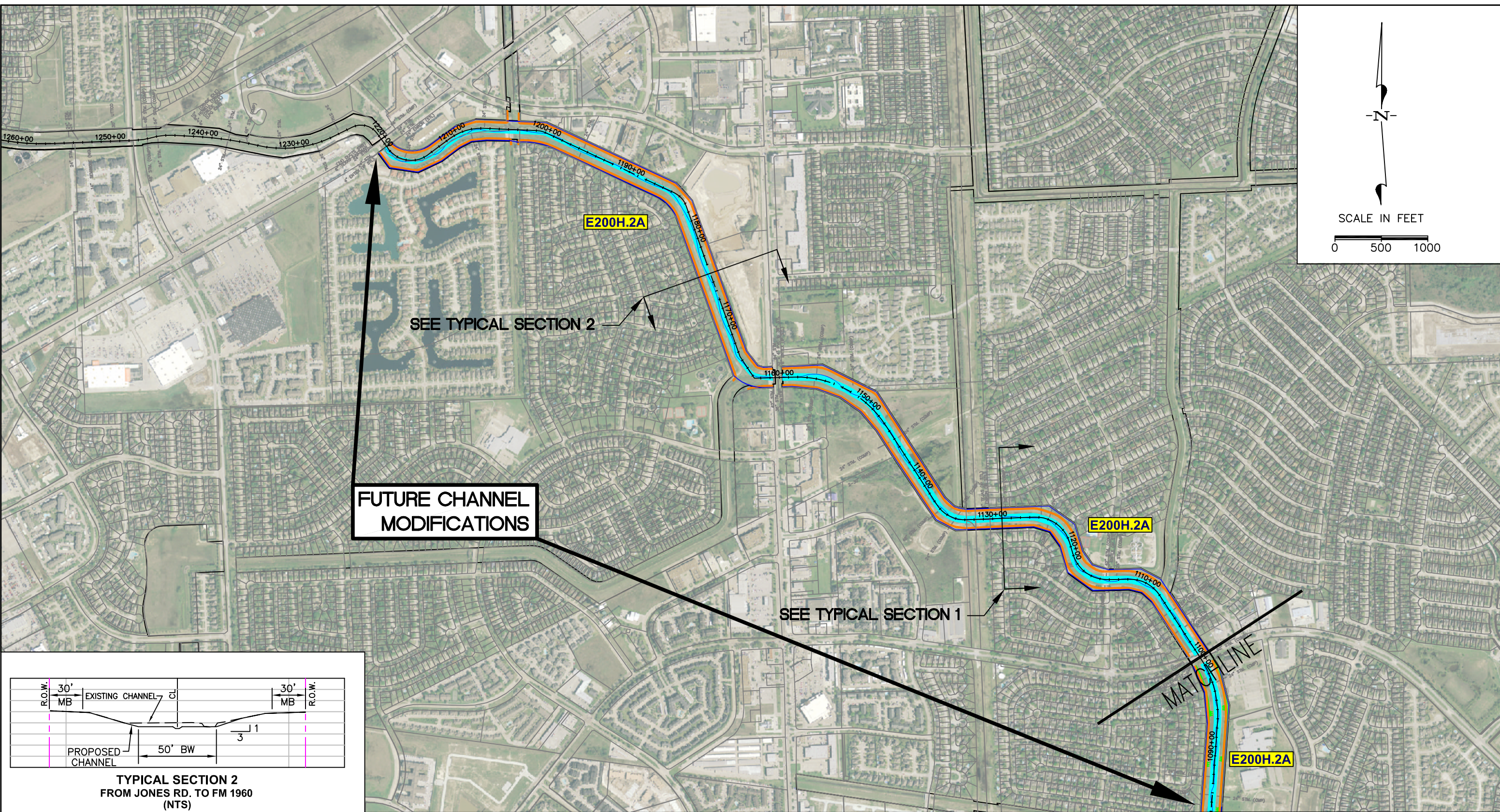
TYPICAL SECTION 1
FROM BELTWAY 8 TO E200-00-00
(NTS)

**WHITE OAK BAYOU FEDERAL FLOOD CONTROL PROJECT
GENERAL REEVALUATION REPORT**

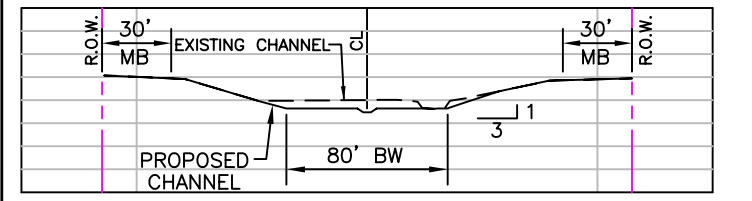
**RECOMMENDED PLAN
GE200.7A:SUE TO E200H.2A:WEST RD.**



FILE: W:\Projects\034\1607\APPENDIX D\EXHIBITS\D-25.5\D-25.5.dwg
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 MODIFIED: Mar 11, 2013 1:40pm BY: hmanuaron PLOTTED: Jun 28, 2013 9:15am PLOT SCALE: 1=1



TYPICAL SECTION 2
 FROM JONES RD. TO FM 1960
 (NTS)



TYPICAL SECTION 1
 FROM WEST RD. TO JONES RD.
 (NTS)

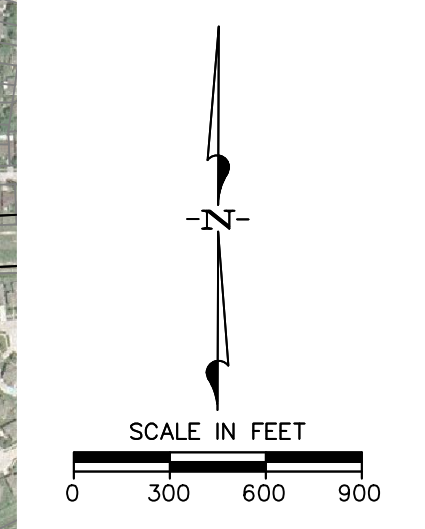
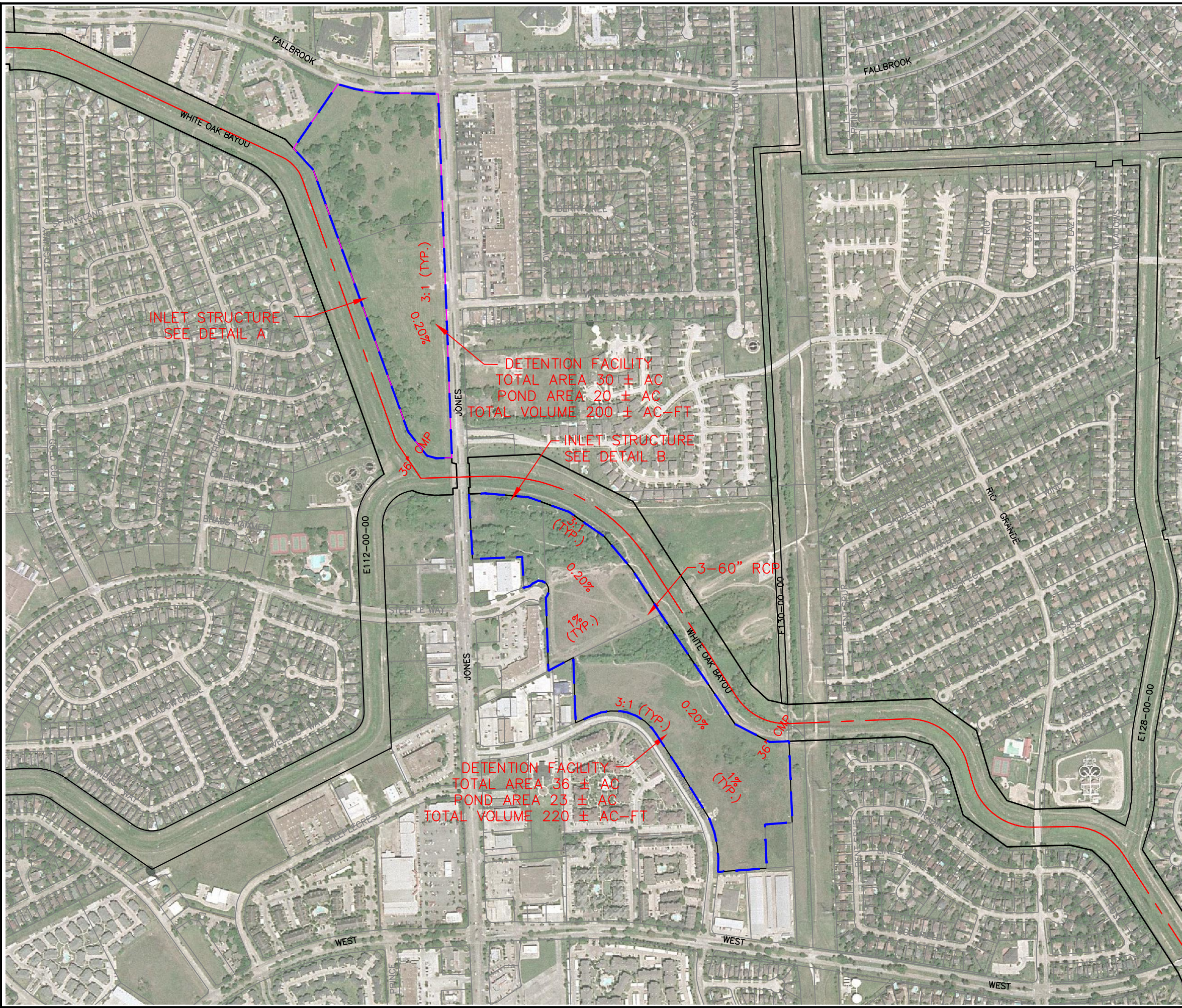
- LEGEND:**
- CENTER LINE
 - ▨ PARCELS REQUIRED
 - ▨ PUBLIC R.O.W.
 - CHANNEL BOTTOM W/ LOW FLOW
 - EARTHEN HIGHBANK
 - MAINTENANCE BERM
 - PROPOSED WHITE OAK BAYOU R.O.W.
 - WHITE OAK BAYOU R.O.W.
 - DETENTION
 - AERIAL DATE: 2001

WHITE OAK BAYOU FEDERAL FLOOD CONTROL PROJECT
GENERAL REEVALUATION REPORT

RECOMMENDED PLAN
E200H.2A:WEST RD. TO FM 1960



FILE INFO: I:\Project\10344\1007\APPENDIX D\EXHIBITS\D-26\9-4-12.dwg MODIFIED: Mar 11, 2013 2:15pm BY: Nemanuram PLOTTED: Mar 11, 2013 2:18pm PLOT SCALE: 1=1



LEGEND

- H.C.F.C.D. R.O.W.
- - - DETENTION FACILITY SITE LIMITS

AERIAL DATE: 2002

90' 119.5'

DETAIL A
INLET STRUCTURE (NTS)

240' 115'

DETAIL B
INLET STRUCTURE (NTS)

**WHITE OAK BAYOU FEDERAL FLOOD CONTROL PROJECT
GENERAL REEVALUATION REPORT**

**RECOMMENDED PLAN
JR.4: DETENTION AT JONES RD.**



FILE INFO: I:\Project\10344\1007\APPENDIX D\EXHIBITS\D-27\0-27.dwg MODIFIED: Mar 11, 2013 2:24pm PLOTTED: Mar 11, 2013 2:24pm PLOT SCALE: 1=1



HOL.3B

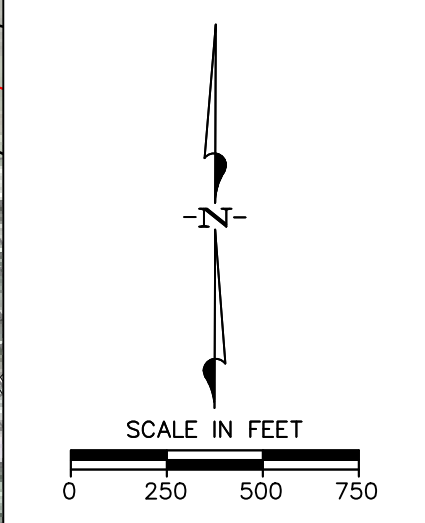
INLET STRUCTURE
SEE DETAIL

3:1 (TYP.)

3:1 (TYP.)

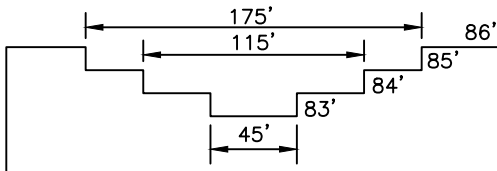
60" RCP

DETENTION FACILITY
TOTAL AREA 94 ± AC
POND AREA 84 ± AC
TOTAL VOLUME 730 ± AC-FT



LEGEND

- H.C.F.C.D. R.O.W.
 - DETENTION FACILITY SITE LIMITS
- AERIAL DATE: 2002



**DETAIL
INLET STRUCTURE
(NTS)**

**WHITE OAK BAYOU FEDERAL FLOOD CONTROL PROJECT
GENERAL REEVALUATION REPORT**

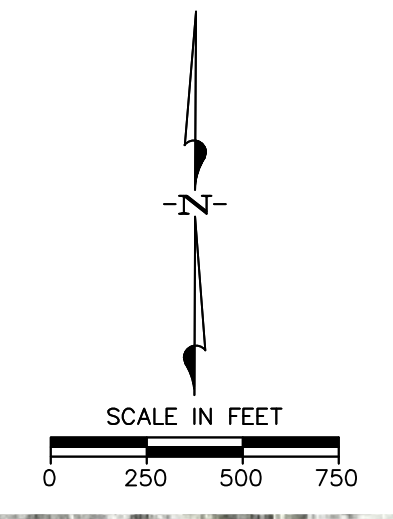
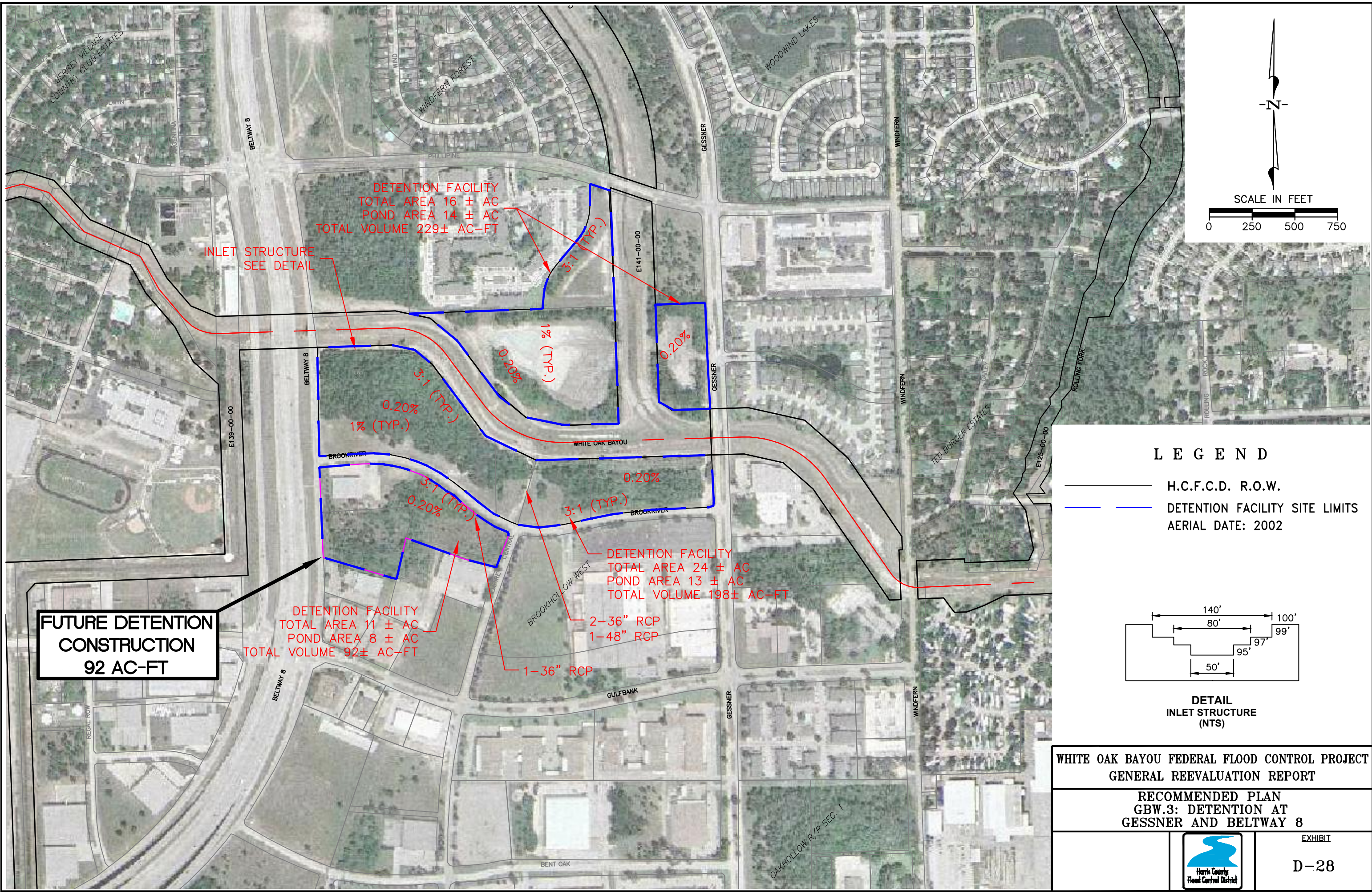
**RECOMMENDED PLAN
HOL.3B: DETENTION AT HOLLISTER**



EXHIBIT

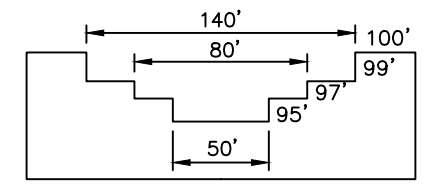
D-27

FILE INFO: I:\Projects\1607\APPENDIX D\EXHIBITS\D-28\U-28_9-4-12.dwg MODIFIED: Mar 11, 2013 2:46pm BY: Hemsusmoran PLOTTED: Aug 12, 2013 10:24am PLOT SCALE: 1=1



LEGEND

- H.C.F.C.D. R.O.W.
 - DETENTION FACILITY SITE LIMITS
- AERIAL DATE: 2002



**DETAIL
INLET STRUCTURE
(NTS)**

**WHITE OAK BAYOU FEDERAL FLOOD CONTROL PROJECT
GENERAL REEVALUATION REPORT**

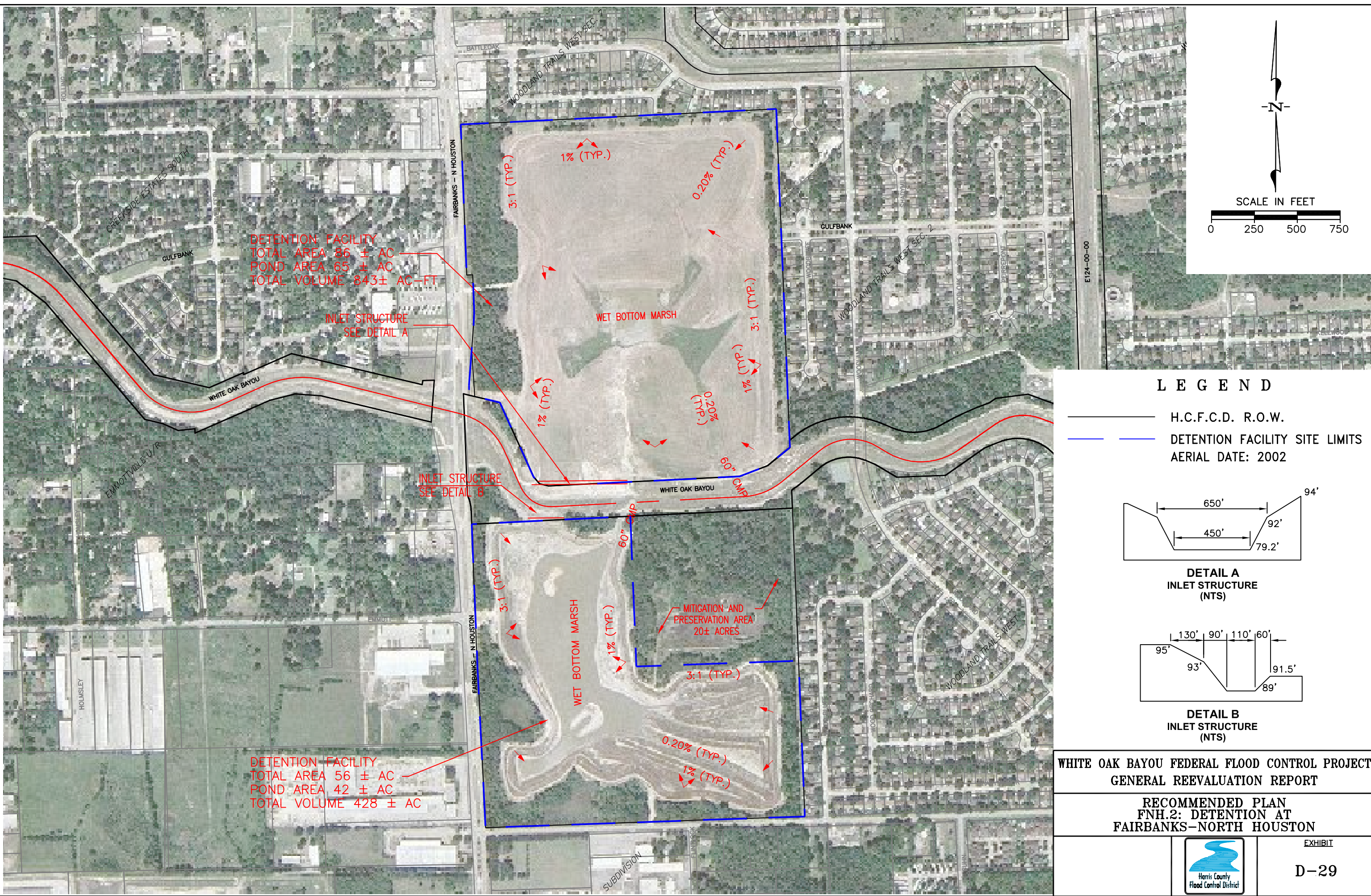
**RECOMMENDED PLAN
GBW.3: DETENTION AT
GESSNER AND BELTWAY 8**



EXHIBIT

D-28

FILE INFO: \\proj\proj\1607\APPENDIX D\EXHIBITS\0-29\0-29 - 9-4-12.dwg MODIFIED: Jul 29, 2013 11:24am BY: agorales PLOTTED: Jul 29, 2013 11:29am PLOT SCALE: 1=1



DETENTION FACILITY
TOTAL AREA 86 ± AC
POND AREA 65 ± AC
TOTAL VOLUME 843 ± AC-FT

INLET STRUCTURE
SEE DETAIL A

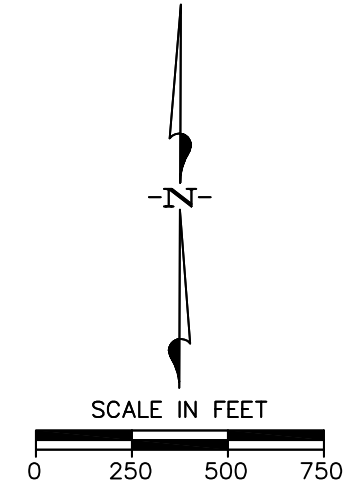
INLET STRUCTURE
SEE DETAIL B

DETENTION FACILITY
TOTAL AREA 56 ± AC
POND AREA 42 ± AC
TOTAL VOLUME 428 ± AC

WET BOTTOM MARSH

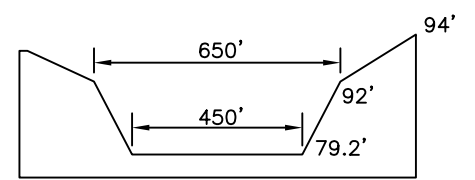
WET BOTTOM MARSH

MITIGATION AND
PRESERVATION AREA
20 ± ACRES

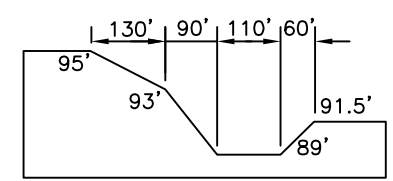


LEGEND

- H.C.F.C.D. R.O.W.
 - DETENTION FACILITY SITE LIMITS
- AERIAL DATE: 2002



DETAIL A
INLET STRUCTURE
(NTS)



DETAIL B
INLET STRUCTURE
(NTS)

**WHITE OAK BAYOU FEDERAL FLOOD CONTROL PROJECT
GENERAL REEVALUATION REPORT**

**RECOMMENDED PLAN
FNH.2: DETENTION AT
FAIRBANKS-NORTH HOUSTON**



EXHIBIT