



The City of Jersey Village Long-term Flood Recovery Plan



Phase 2 Public Meeting Summary Report

Thursday, March 23, 2017
Jersey Village City Hall
16327 Lakeview Dr.
Jersey Village, TX 77040

Due to the confidential and sensitive nature of some of the data provided in this report, certain items have been redacted from the public copy of this report.

Contents

Contents	i
Appendices	ii
1. INTRODUCTION	3
1.1. PROJECT BACKGROUND	3
2. PUBLIC MEETING PROCESS	4
3. PUBLIC MEETING SUMMARY	5
4. PUBLIC NOTIFICATIONS	6
4.1. PUBLIC NOTICE	6
4.2. ELECTED OFFICIALS NOTICE	6
4.3. WEB BANNER	6
4.4. YARD SIGN	6
4.5. E-BLAST	7
5. STUDY WEBSITE	7
6. PHASE 2 COMMENTS RECEIVED	8
6.1. COMMENT COLLECTION METHODS	8
6.2. COMMENT TABULATION	8
6.3. COMMENT SUMMARY	8

Appendices

- A Meeting Notices: Public Notices, E-blast, Web Banner, and Yard Sign
- B Elected Official Noticing: Elected Official Mailing List and Elected Official Letters
- C Attendee Database
- D Completed Attendee Cards
- E Comment Database
- F Submitted Comment Documents
- G Meeting Materials: Phase 2 Study Newsletter, Attendee Card, Comment Form, “How to Participate” Handout, and Informational Video Script
- H Informational Displays: Print Displays and Electronic Displays
- I Maps and Exhibits
- J Meeting Photographs

1. INTRODUCTION

A public meeting for Phase 2 of the Jersey Village Long-term Flood Recovery Plan was held on March 23, 2017. The purpose of this public meeting was to provide the public with updated information about the study scope and schedule, create opportunities for the public to participate in the planning study, and to present structural and nonstructural flood damage reduction concepts for the public to review and provide feedback. Further information regarding the Phase 2 Public Meeting is detailed below.

1.1. PROJECT BACKGROUND

The Jersey Village Long-term Flood Recovery Plan is an accelerated flood damage reduction study led by Dannenbaum Engineering Corporation (Dannenbaum) to address repetitive flooding in the City of Jersey Village (City) and the surrounding area. Flooding in the City is a persistent hazard for area residents, businesses, and property owners. Devastating flooding in the Jersey Village area has been documented five times in the last two decades, despite many efforts by the City and the Harris County Flood Control District to address flooding issues. In September 2016, the City contracted Dannenbaum to rapidly deliver the Plan by summer 2017.

The study team is comprised of experts in hydrology, civil engineering, environmental science, and public outreach. The study team will assess current conditions within the City and surrounding areas and identify and analyze potential strategies that could address repetitive flooding issues within the City.

The planning process will be delivered in three phases, and the community will be invited to attend a public meeting during each study phase:

- Phase 1: Data Collection and Preliminary Assessment (September – October 2016)
- Phase 2: Technical Analysis and Development of Alternatives (October 2016 - March 2017)
- Phase 3: Preferred Alternative Selection and Finalization (March – June 2017)

The goal of the study is to recommend a hydraulically, economically, environmentally, and socially feasible Long-term Flood Recovery Plan that is acceptable to City residents and elected officials. Throughout the life of the study, the study team will proactively encourage public feedback and participation. A total of three public meetings will be held during the planning process to provide information about the Long-term Flood Recovery Plan and receive input from affected communities.

2. PUBLIC MEETING PROCESS

The City of Jersey Village Long-term Flood Recovery Plan Phase 2 Public Meeting process consisted of the following elements:

- A public notice announcing the Phase 2 Public Meeting was published in the *Jersey Village Star* and the *Cypress Creek Mirror*.
- Letters announcing the Phase 2 Public Meeting were distributed to elected officials.
- A public notice and web banner announcing the Phase 2 Public Meeting were published on the City of Jersey Village website (www.jerseyvillage.info).
- Yard signs announcing the Phase 2 Public Meeting were placed along frequently traveled roadways and thoroughfares in the Jersey Village area.
- An e-blast announcing the Phase 2 Public Meeting was distributed to the City of Jersey Village email list.
- The Phase 2 Public Meeting was hosted to provide the public with updated information about the study scope and schedule, create opportunities for the public to participate in the planning study, and to present structural and nonstructural flood damage reduction concepts for the public to review and provide feedback.
- The City of Jersey Village Long-term Flood Recovery Plan website (www.jvfloodrecovery.com) was developed to serve as a single, prominent source of study information and allow users to submit comments regarding the study and sign up for the City of Jersey Village mailing list.
- All comments received during the comment period, and those received after the comment period to the extent practicable, were reviewed and considered. The deadline to receive comments for consideration during Phase 3 of the study was April 21, 2017.
- The Phase 2 Public Meeting Summary was published on www.jvfloodrecovery.com.

3. PUBLIC MEETING SUMMARY

The Phase 2 Public Meeting for the City of Jersey Village Long-term Flood Recovery Plan took place on Thursday, March 23, 2017, at Jersey Village City Hall, 16327 Lakeview Drive, Jersey Village, TX 77040, from 7:00 p.m. to 9:00 p.m.

The public meeting was held in an open-house style. Upon arrival, attendees were asked to complete an attendee card and were provided with meeting materials including the Phase 2 study newsletter, a “How to Participate” handout, a written comment form, and an informational video script. A total of 126 people completed attendee cards. An attendee database is included in **Appendix C**, and copies of the completed attendee cards are included in **Appendix D**. Copies of meeting materials can be found in **Appendix G**.

The public meeting began with a brief verbal introduction from City and Dannenbaum representatives. The verbal introduction welcomed attendees to the public meeting, explained the purpose and format of the meeting, and introduced the study team members present at the meeting. Following the verbal introduction, attendees were invited to:

- view the Phase 2 informational video,
- view informational display stations and exhibits,
- provide feedback on structural alternative maps,
- discuss the study with study team representatives from the City and Dannenbaum, and
- provide written comments.

The Phase 2 informational video was produced to provide a point of consistent, targeted communication in a professional and easily distributed format. The Phase 2 informational video is approximately 18 minutes in length and informs the viewer about the study background, the Flood Recovery Planning Study, factors contributing to flooding in Jersey Village, the “Tax Day” floods, proposed flood damage reduction measures, and what to expect in Phase 3. The Phase 2 informational video was featured as the primary presentation at the public meeting and was made available through the study website following the public meeting. A copy of the informational video script is included in **Appendix G**.

Informational display stations containing both print and electronic content were arranged around the open-house meeting space. The display stations provided information about the planning process, Phase 2 study findings, and the proposed flood damage reduction methods. Copies of display materials are included in **Appendix H**.

Large-scale Structural Alternatives Maps were available at the public meeting for the public to provide their input regarding the proposed structural alternatives. Feedback provided on the input maps was not limited or censored to any specific topic – members of the public were

invited to provide all of their input related to the study. Additional maps and exhibits available for viewing included an “Affected Homes vs Tax Day Structural Inventory” Map, a “Jersey Village Timeline” Exhibit, a “Level of Service” Map, a “Tax Day vs 100-year Floodplain” Map, and a “Watershed” Map. Copies of the maps and exhibits available at the public meeting are included in **Appendix I**, and photographs of the meeting are included in **Appendix J**.

4. PUBLIC NOTIFICATIONS

The public was notified about the City of Jersey Village Long-term Flood Recovery Plan Phase 2 Public Meeting via an online and printed public notice, web banner, yard signs, and e-blasts as described below.

4.1. PUBLIC NOTICE

A public notice announcing the date, time, and location of the Phase 2 Public Meeting (**Appendix A**) was published on the City of Jersey Village website (www.jerseyvillage.info) on February 10, 2017, in the *Jersey Village Star* on February 1, 2017, and March 1, 2017, and in the *Cypress Creek Mirror* on February 15, 2017. The public notice also included information about the format and purpose of the meeting and solicited verbal and written comments at the meeting or via email at jvfloodrecovery@crouchenvironmental.com.

4.2. ELECTED OFFICIALS NOTICE

A total of nine formal letters to state and federal elected officials were sent via certified mail announcing the Phase 2 Public Meeting on March 13, 2017. Copies of the mailed letters and the elected official mailing list are included in **Appendix B**.

4.3. WEB BANNER

In addition to the public notice, a web banner was designed and published on the City website on February 10, 2017. The web banner included the name of the Plan and announced the date, time, and location of the Phase 2 Public Meeting. A copy of the web banner is included in **Appendix A**.

4.4. YARD SIGN

Before the Phase 2 Public Meeting, yard signs announcing the date, time, and location of the meeting were placed along frequently traveled roadways and thoroughfares in the Jersey Village area on March 15, 2017. Additionally, meeting details were announced on all City designated marquees. A copy of the yard signs is included in **Appendix A**.

4.5. E-BLAST

An e-blast was distributed to the City of Jersey Village email list on March 20, 2017. All Jersey Village area residents are given the opportunity to be included on the City's contact list. The e-blast announced the date, time, and location of the Phase 2 Public Meeting, the purpose of the public meeting, the study comment deadline, and how to submit comments. A copy of the e-blast is included in **Appendix A**.

5. STUDY WEBSITE

The study website (www.jvfloodrecovery.com) serves as a single, prominent source of study information. The study website's "About" section maintains information about the study background, the Flood Recovery Planning Study, the factors contributing to flooding in Jersey Village, the "Tax Day" floods, the proposed flood damage reduction measures, and what to expect in Phase 3. The study website includes a "Comments" section that features a feedback submittal tool that users can use to submit comments, as well as an online portal to sign up for the City of Jersey Village mailing list. A "Progress" section containing the study team's monthly progress updates, and a "Materials" section containing the Phase 1 Public Meeting Summary Report, Phase 2 Public Meeting materials and maps/exhibits, and the Phase 2 informational video are also included. The Phase 2 informational video is also featured on the "Home" page of the study website, along with information about the Phase 2 Public Meeting, Phase 2 Public Meeting materials and maps/exhibits, and information about the Flood Recovery Planning Study.



City of Jersey Village Long-term Flood Recovery Plan Website
Developing a flood damage reduction plan that balances social acceptability with economic, hydraulic, and environmental feasibility

**City of Jersey Village Long-term Flood Recovery Plan
Phase 2 Public Meeting**

The City of Jersey Village hosted an open-house style public meeting on Thursday, March 23, 2017, from 7 to 9 p.m. at the Jersey Village Civic Center, 16327 Lakeview Dr., Jersey Village, TX 77040 to encourage public participation and feedback in the **City of Jersey Village Long-term Flood Recovery Plan**.

The purpose of this public meeting was to:

- Provide updated information about the study scope and schedule
- Provide information about opportunities for the public to participate in the planning study
- Present structural and non-structural alternatives for the public to provide feedback

City of Jersey Village Long-term Flood Recovery Plan Website

6. PHASE 2 COMMENTS RECEIVED

6.1. COMMENT COLLECTION METHODS

All comments received during the comment period, and those received after the comment period to the extent practicable, were reviewed and considered. The comment deadline for Phase 2 was Friday, April 21, 2017. Comments were received via the following channels:

- Comment forms were submitted at the Phase 2 Public Meeting or mailed to Jersey Village Long-term Flood Recovery Plan, 402 Teetshorn St., Houston, TX 77009.
- Comments were received via the feedback submittal tool on the study website at www.jvfloodrecovery.com.
- Comments were received via the study email jvfloodrecovery@crouchenvironmental.com.

A total of 35 comments were submitted. A database of comments submitted is available in **Appendix E**, and copies of submitted comments are included in **Appendix F**.

6.2. COMMENT TABULATION

Comment Type	Quantity
Comments submitted via comment form at the Phase 2 Public Meeting	22
Comments submitted via the feedback submittal tool on www.jvfloodrecovery.com	3
Comments submitted via email directly to jvfloodrecovery@crouchenvironmental.com or study team representatives	10

6.3. COMMENT SUMMARY

The following list indicates issues identified in public comments. The number in parenthesis indicates the number of times that type of comment appeared.

- Support for the study's proposed structural alternatives (14)
- Concern for the study's proposed structural alternatives (5)
- Requests for information referenced in the Jersey Village Long-term Flood Recovery Plan video, including the Drainage Impact Study for the Transit-Oriented Development area, flood insurance rate maps, the Rapid Assessment (Structural Inventory), etc. (7)

- Requests for additional information about the alternatives proposed at the Phase 2 Public Meeting, including proposed bridge and Jersey Meadows Golf Course improvements, upstream and downstream impact studies, etc. (12)
- Concern regarding the Jersey Village Long-term Flood Recovery Plan timeline (3)
- General concern regarding flooding in Jersey Village (7)
- Requests for inclusion of additional alternatives, including storm sewer system and street drainage improvements, levees and flood walls, additional bypass channels, non-structural alternatives as a primary method, etc. (21)
- Requests for the public meeting style to be announced beforehand (2)
- Requests for coordination with government agencies (3)
- Requests for home and property buyouts (3)
- General observations about the causes of flooding in Jersey Village (4)
- Requests for consideration of upstream and downstream impacts to White Oak Bayou (2)
- Concern regarding flood insurance rates (1)
- Concern regarding potential flooding impacts from U.S. 290 construction (4)
- Concern regarding data used in the study (3)
- Support for raising of homes (1)
- Opposition to raising of homes (1)
- Requests for information regarding White Oak Bayou, including survey data, upstream detention, channel ownership, etc. (5)
- Request for information regarding subsidence in Jersey Village (1)
- Request for clarification on maps displayed at the public meeting and on jvfloodrecovery.com (1)
- Request for information on home values in Jersey Village in the 100-year floodplain (1)

Appendix A

Meeting Notices: Public Notices, E-blast, Web Banner, and Yard Sign

Public Notice



PUBLIC MEETING

Please join us for a public meeting.

The City of Jersey Village will host an open-house style public meeting on March 23, 2017, to encourage public participation and feedback in the **City of Jersey Village Long-term Flood Recovery Plan**.

The Long-term Flood Recovery Plan study team has concluded Phase 1 (Data Collection) of the City of Jersey Village Long-term Flood Recovery Plan. Phase 1 included a public scoping meeting on October 18, 2016, data collection from public agencies, a topographic survey of homes, and a survey mailed to 2,437 properties in Jersey Village requesting input on flooding observed by local residents. Now, as the study team concludes the major technical study that defines Phase 2 (Technical Analysis and Alternatives Development), the public's continued participation is encouraged. Phase 2 of the plan includes a Rapid Assessment structural inventory of homes in the floodplain, hydrologic and hydraulic modeling, and structural and non-structural alternatives development and analysis, as well as economic, environmental, and social assessments. During Phase 3, the Long-term Flood Recovery Plan study team will use findings and public input from Phase 2 to recommend a hydraulically, economically, environmentally, and socially feasible Long-term Flood Recovery Plan for the City of Jersey Village. Phase 3 is currently scheduled to conclude in Summer 2017 with a public meeting presenting the recommended alternatives, financing plan, and environmental summary report that comprise the City of Jersey Village Long-term Flood Recovery Plan.

Public feedback and participation will continue to be encouraged throughout the duration of the study. The Phase 2 public meeting will be held on the following date at the following location:

**Thursday, March 23, 2017
7:00 p.m. to 9:00 p.m.
Jersey Village Civic Center
16327 Lakeview Dr.
Jersey Village, TX 77040**

During the public meeting, alternatives will be presented, and the public is invited to participate and provide feedback. Informational displays will be available for public viewing, and study team representatives will be available to provide information and answer questions before and after the meeting.

The purpose of this public meeting is to:

- Provide updated information about the study scope and schedule
- Provide information about opportunities for the public to participate in the planning study
- Present structural and non-structural alternatives for the public to provide feedback

Comments will be accepted at the public meetings and throughout the duration of the study. All comments should be submitted or postmarked by **April 21, 2017**, to be considered in Phase 3 of the study. Please provide your name and address on your comment form, letter, or email. Those who are unable to attend the public meeting may submit written comments via mail or email. Submit comments to:

**Long-term Flood Recovery Plan
402 Teetshorn Street
Houston, Texas 77009**

or

JVfloodRecovery@crouchenvironmental.com

For more information about this study, visit **www.ci.jersey-village.tx.us**.

The public meeting will be conducted in English. If hearing impaired or language translation services are needed, please contact the Long-term Flood Recovery Plan study team at **713-868-1043** or at **JVfloodRecovery@crouchenvironmental.com** by **Friday, March 17, 2017**. The study team will make every reasonable effort to accommodate these needs.

Public Notice – Cypress Creek Mirror



HOUSTON COMMUNITY
NEWSPAPERS
& MEDIA GROUP

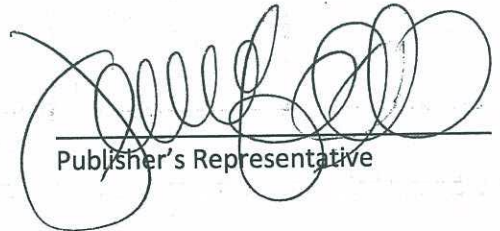
A Division of the Houston Chronicle

AFFIDAVIT OF PUBLICATION

STATE OF TEXAS COUNTY OF HARRIS

Personally appeared before the undersigned, a Notary Public within and for said County and State. Jennifer Breitenbach, Representative for Brenda Miller-Ferguson, General Manager and Publisher of The Cypress Creek Mirror, a newspaper of general circulation in the County of Harris, State of Texas. Who being duly sworn, states under oath that the report of Legal Notices, a true copy of which is hereto annexed was published in said newspapers in its issue(s) of the

_____ 15 day of February, 2017
_____ day of _____, 2017
_____ day of _____, 2017
_____ day of _____, 2017



Publisher's Representative

Sworn to and subscribed before me this 15 day of February, 2017.

Notary Public



My commission expires on (stamp) _____

...eccion a duracion de un periodo de votacion anticipada...
...el Distrito invoca una votacion para la adquisicion, el aprendizaje o el uso de un sistema de votacion electronica para la eleccion.

Cualquier votante en el Distrito podrá solicitar el uso de una estación de votación que cumpla con los requisitos de accesibilidad para que una persona con una discapacidad pueda votar si se comunica con la persona mencionada abajo. El pedido debe ser recibido no más tarde del 45to día anterior al Día de Elección de acuerdo con la Sección 49.111(d) del Código de Agua de Texas. Recuerde incluir el nombre, la dirección, el número de teléfono y la dirección de correo electrónico (si corresponde) del votante que realiza el pedido. Envíe el pedido a: Distrito de Servicios Públicos Municipales de Horseshoe Bayou del Condado de Harris, Texas, Linda F. Sotirake, 3200 Southwest Freeway, Suite 2600, Houston, Texas 77027, (713) 860-6424, (713) 860-6624 (facsimile), lsotirake@abhrr.com

THÔNG BÁO MIỄN ÁP DỤNG QUI ĐỊNH
Cố Quan Dịch Vụ Tịch Lịch Thành Phố Horseshoe Bayou, Quận Harris, Texas ("Cố Quan") dự định tổ chức một cuộc bầu cử vào ngày 6 tháng Năm, 2017 mà không cung cấp một trạm bỏ phiếu hội đủ các yêu cầu để sử dụng cho người khuyết tật theo 42 U.S.C. Mục 15461(a)(3) vào ngày bầu cử và trong giai đoạn dịch tị nạn tại bỏ phiếu sớm. Cố Quan muốn xin miễn mua, thuê hoặc sử dụng một hệ thống bỏ phiếu điện tử cho cuộc bầu cử này.
Bất kỳ cử tri nào trong Cố Quan có thể liên lạc với người sau đây nếu muốn yêu cầu sử dụng một trạm bỏ phiếu hội đủ điều kiện để sử dụng cho người khuyết tật để người khuyết tật có thể tham gia bỏ phiếu. Yêu cầu này phải nhận được trả nháp là 45 ngày trước Ngày Bầu Cử chiều theo Mục 49.111(d) của Bộ Luật Thủy Cục Texas. Vui lòng ghi tên, địa chỉ, số điện thoại và địa chỉ email (nếu thích hợp) của cử tri yêu cầu. Gửi yêu cầu đến: Cố Quan Dịch Vụ Tịch Lịch Thành Phố Horseshoe Bayou, Quận Harris, Texas, Linda F. Sotirake, 3200 Southwest Freeway, Suite 2600, Houston, Texas 77027, (713) 860-6424, (713) 860-6624 (facsimile), lsotirake@abhrr.com.

豁免通知
Texas州Harris郡Horseshoe Bayou市政公用事業區(下稱「本區」)擬於2017年5月6日舉行債券選舉,並在選舉日及親出席提前投票期間不提供符合美國法典第42卷第15481(a)(3)條中關於無障礙投票之規定的投票站。本區可免於為選舉購買、租賃或應用電子投票系統。
本區任何選民如欲使用符合無障礙投票規定的投票系統,可與以下人士聯絡。依據Texas州本法第49.111(d)條規定,申請須於投票日之前至少提前45天遞達。請包括請求投票人的姓名、地址、電話號碼及郵箱地址(若適用)。並將申請發送至:Texas州Harris郡Horseshoe Bayou市政公用事業區, Linda F. Sotirake, 3200 Southwest Freeway, Suite 2600, Houston, Texas 77027, (713) 860-6424, (713) 860-6624 (facsimile), lsotirake@abhrr.com.

PUBLIC MEETING
Please join us for a public meeting.

The City of Jersey Village will host an open-house style public meeting in March 2017 to encourage public participation and feedback in the City of Jersey Village Long-term Flood Recovery Plan.

The Long-term Flood Recovery Plan study team has concluded Phase 1 (Data Collection) of the City of Jersey Village Long-term Flood Recovery Plan, which included a public scoping meeting on October 18, 2016; data collection from public agencies, and a survey mailed to 2,437 residents in Jersey Village requesting input on flooding observed by local residents. Now, as the study team concludes the major technical study that defines Phase 2 (Critical Assessment), the public's continued participation is encouraged. Phase 2 of the plan includes a Rapid Assessment structural inventory of homes in the floodplain, hydrologic and hydraulic modeling, and structural and non-structural alternatives development and analysis, as well as economic, environmental, and social assessments. During Phase 3, the Long-term Flood Recovery Plan study team will use findings and public input from Phase 2 to recommend a hydraulically, economically, environmentally, and socially feasible Long-term Flood Recovery Plan for the City of Jersey Village. Phase 3 is currently scheduled to conclude on June 1, 2017. A public meeting presenting the recommended alternatives, financing plan, and environmental summary report that comprise the City of Jersey Village Long-term Flood Recovery Plan.

Public feedback and participation will continue to be encouraged throughout the duration of the study. The Phase 2 public meeting will be held on the following date at the following location:

Thursday, March 23, 2017
7:00 p.m. to 9:00 p.m.
Jersey Village Civic Center
16327 Lakeview Dr.
Jersey Village, TX 77040

During the public meeting, alternatives will be presented and the public is invited to participate and provide feedback to screen and select preferred alternatives. Informational displays will be available for public viewing, and study team representatives will be available to provide information and answer questions before and after the meeting.

The purpose of this public meeting is to:

- Provide updated information about the study scope and schedule
- Provide information about opportunities for the public to participate in the planning study
- Present structural and non-structural alternatives for the public to provide feedback

Comments will be accepted at the public meetings and throughout the duration of the study. All comments regarding the findings from Phase 2 of the study should be submitted or postmarked by **April 21, 2017**, to be considered in Phase 3 of the study. Please provide your name and address on your letter or email. Those who are unable to attend the scoping meeting may submit written comments via mail or email. Submit comments to:

Long-term Flood Recovery Plan
402 Teahorn Street
Houston, Texas 77009
or
JVFLFloodRecovery@croachenvironmental.com

For more information about this study, visit www.ci.jersey-village.tx.us.

The public meeting will be conducted in English. If hearing impaired or language translation services are needed, please contact the Long-term Flood Recovery Plan study team at 713-860-1043 or JVFLFloodRecovery@croachenvironmental.com by Friday, March 17, 2017. The study team will make every reasonable effort to accommodate these needs. CVP 2/13/17

...particularly described by metes-and-bounds as follows with the bearings based on Texas State Plane Coordinate System, South Central Zone (NAD83) per GPS Observations using National Geodetic Survey Continuously Operating Reference Stations:

COMMENCING FOR REFERENCE at a 5/8-inch iron rod found at the intersection of the south right-of-way line of Boudreaux Estates Drive (previously called Boudreaux Road, 60 feet wide) with the east right-of-way line of Rocky Road (previously called Boudreaux Road, 60 feet wide) for the northwest corner of a 14.8700 acre tract of land conveyed to Greater Life Church, as recorded in Harris County Clerk's File No. P747894;

THENCE, South 02° 42' 23" East with the east right-of-way line of said Rocky Road, at a distance of 508.47 feet, pass a point at the intersection of the east right-of-way line of said Rocky Road with the north right-of-way line of State Highway 99 (Grand Parkway, right-of-way width varies), as recorded in Harris County Clerk's File No. 20130635661 and continuing for a total distance of 1,125.13 feet to a TXDOT monument disk found at the intersection of the east right-of-way line of said Rocky Road with the south right-of-way line of said State Highway 99 for a northwest corner and the POINT OF BEGINNING of this tract;

THENCE, North 87° 08' 44" East - 3.45 feet with a south right-of-way line of said State Highway 99 to a TXDOT monument disk found for an interior corner of this tract;

THENCE, North 02° 28' 32" West - 66.98 feet with an east right-of-way line of said State Highway 99 to a TXDOT monument disk found for an angle point of this tract;

THENCE, North 42° 34' 59" East - 50.02 feet with the southeast right-of-way line of said State Highway 99 to a TXDOT monument disk found for an angle point of this tract;

THENCE, North 88° 01' 15" East - 1,169.62 feet with the south right-of-way line of said State Highway 99 to a TXDOT monument disk found for an angle point of this tract;

THENCE, South 73° 26' 35" East - 26.19 feet with the south right-of-way line of said State Highway 99 to a TXDOT monument disk found for an angle point of this tract;

THENCE, North 88° 01' 15" East - 30.30 feet with the south right-of-way line of said State Highway 99 to a TXDOT monument disk found for the beginning of a non-tangent curve to the right;

THENCE, in a southeasterly direction with the south right-of-way line of said State Highway 99 and with said non-tangent curve to the right having a radius of 1,030.79 feet, a central angle of 22° 58' 29", a length of 413.33 feet and a chord bearing South 60° 10' 38" East - 410.57 feet to a 5/8-inch iron rod found in the southwest right-of-way line of State Highway 249 (width varies) for the northeast corner of this tract;

THENCE, in a southeasterly direction with the southwest right-of-way line of said State Highway 249 and with a non-tangent curve to the right having a radius of 1,379.00 feet, a central angle of 01° 37' 30", a length of 39.11 feet and a chord bearing South 23° 20' 18" East - 39.11 feet to a 5/8-inch iron rod with cap stamped "T.E.A.M." found for the end of said curve;

THENCE, South 22° 44' 12" East - 154.41 feet with the southwest right-of-way line of said State Highway 249 to a TXDOT monument disk found for a point-of-curvature;

THENCE, in a southeasterly direction with the southwest right-of-way line of said State Highway 249 and with a curve to the left having a radius of 1,512.00 feet, a central angle of 12° 29' 50", a length of 329.80 feet and a chord bearing South 28° 59' 08" East - 329.14 feet to a TXDOT monument disk found for the end of said curve;

THENCE, South 35° 12' 22" East - 395.67 feet with the southwest right-of-way line of said State Highway 249 to a TXDOT monument disk found at the northeast end of a cutback at the intersection of the southwest right-of-way line of said State Highway 249 with the northwest right-of-way line of Boudreaux Road (100 feet wide), as recorded in Harris County Clerk's File No. D900150 for a southeast corner of this tract;

THENCE, South 08° 39' 54" West - 53.94 feet with said cutback to a TXDOT monument disk found at the southwest end of said cutback for a southeast corner of this tract;

THENCE, South 58° 19' 09" West - 791.84 feet with the northwest right-of-way line of said Boudreaux Road to a 5/8-inch iron rod found for the beginning of a non-tangent curve to the right;

THENCE, in a westerly direction with the north right-of-way line of said Boudreaux Road and with said non-tangent curve to the right having a radius of 2,750.00 feet, a central angle of 28° 57' 23", a length of 1,389.80 feet and a chord bearing South 72° 50' 56" West - 1,375.06 feet to a 5/8-inch iron rod found at the intersection of the north right-of-way line of said Boudreaux Road with the east right-of-way line of said Rocky Road for the southwest corner of this tract;

THENCE, North 02° 42' 23" West - 1,732.43 feet with the east right-of-way line of said Rocky Road to the POINT OF BEGINNING and containing 65.6190 acres (2,858,363 square feet) of land.

Note: This metes-and-bounds description was written in conjunction with a survey performed on even date.

Persons interested in the above-proposed Annexation will be given an opportunity to be heard. Legal descriptions and maps of said property are available for inspection at the office of the City Secretary, 401 Market Street, Tomball, Texas.

CERTIFICATION

I hereby certify that the above notice of meeting was posted on the bulletin board of City Hall, City of Tomball, Texas, a place readily accessible to the general public at all times, on the 10th day of February 2017 by 5:00 p.m., and remained posted for at least 72 continuous hours preceding the scheduled time of said meeting.

Doris Speer
Doris Speer
City Secretary, TRMC

This facility is wheelchair accessible and accessible parking spaces are available. Requests for accommodations or interpretive services must be made 48 hours prior to this meeting. Please feel free to contact the City Secretary's office at (281) 290-1002 or FAX (281) 351-6256 for further information. AGENDAS MAY ALSO BE VIEWED ONLINE AT www.ci.tomball.tx.us.

...sale by Public Auction to the highest bidder for cash, without reserve on the facility located at 9228 Windfern Rd., Houston, TX 77064 on February 25, 2017, at 10:00 A.M. The sale is being held to satisfy a Landlord's lien under Chapter 59 of the Texas Property Code. Seller reserves the right to withdraw property from the sale. The public is invited to attend. Property includes contents of spaces of the following tenants: Leslie Cox, Henry Chavis, Mary Collins, Dubelsa Lopez Property includes: boxes and bags with contents, suit cases, dresser, chest of drawers, bed frames, Chevrolet Van, Suzuki Samurai.

GEARHEADS.ME
13650 SCHROEDER RD. SUITE C
HOUSTON, TX 77070
PH: (832)330-7932
VSF: 064831A
BE1200S 2006 Mazda/3 Pts
BHMC007 TX Vin
JMBK12F361442056 Towed from
9200 West Rd

CLASSIFIED OBITS

CEMETERY LOTS

Resthaven on I45 N
2 Cemetery Spaces in Section 1
\$3,000 each - Cash
Call Frank: 713-557-6663

AUTOS

AUTOS WANTED

**WE BUY CARS
TRUCKS, RV'S**
ALL VEHICLES
Running Or Not
WE COME TO YOU!
CASH PAID ON
THE SPOT!!
832-562-8627

HONDA

2008 Grey Honda Civic
110,000mi, Navigation System,
Sun Roof, Leather, Automatic
\$6,000 936-321-5058

ANTIQUES

CONROE CLASSIC Winter
MEET & CAR CORRAL
Fri. Feb. 17 thru Sun. Feb. 19
OPEN ALL 3 DAYS AT 7 AM
SPECTATORS FREE
Montgomery Co. Fairgrounds
337-249-7667 hotrodsofexas.com

**LEGAL
Advertising**

To Place Your
NOTICE
TO
CREDITORS

contact
281-378-1025
legals@hcnonline.com

HOUSTON COMMUNITY
NEWSPAPERS
& MEDIA GROUP
A Division of the Houston Chronicle

ORDINANCE NO. 2017-01
AN ORDINANCE REDUCING THE PRIMA FACIE SPEED LIMIT ESTABLISHED FOR VEHICLES UNDER THE PROVISIONS OF 6545.356, TEXAS TRANSPORTATION CODE, UPON THE BASIS OF AN ENGINEERING AND TRAFFIC INVESTIGATION, UPON THE BASIS OF FREEWAYS/ACCESS ROADS, FOR A TEMPORARY REDUCTION OF SPEED DURING CONSTRUCTION ONLY, FROM THE INTERSECTION OF HEIND LANE AND SH 248, NORTH TO THE HARRIS/MONTGOMERY COUNTY LINE, WITHIN THE CORPORATE LIMITS OF THE CITY OF TOMBALL, AS SET OUT IN THIS ORDINANCE, AND PROVIDING A PENALTY AND FINE IN AN AMOUNT NOT TO EXCEED TWO HUNDRED DOLLARS (\$200.00) FOR THE VIOLATION OF THIS ORDINANCE. SECOND READING PASSED AND APPROVED FEBRUARY 6, 2017. TP 2/15/17

Fix it

Advertise your business services in our Service Directory
Let our readers know who to call

Place your ad in one or more of our 24 newspapers & online
855-722-3900

southeasttexas.com

Local Matters...

Public Notice – Jersey Village Star

February 2017 Issue

March 2017 Issue

Jersey Meadow — Golf Course News

Tip of the Month – by Matt Jones

“Putting Shouldn’t Be So Hard”

The fundamentals are really kind of simple:

1. Keep the head dead steady the whole stroke.
2. The lower body should stay very quiet using arms and shoulders only.
3. Always keep the putter absolutely across (perpendicular) the line of putt.
4. Make a “putting stroke” not a putting hit. The length of the swing should be approximately the same on the backstroke and the through stroke - keeping the same speed.
5. Practice – Practice – Practice all lengths of putts – even 2 footers!

Hope it helps – remember the best way to save strokes off your score – make more putts.

Callaway Epic Driver Demo Day

Thursday, February 9, 2017

Jersey Meadow Driving Range

Bring your driver and compare – the numbers won’t lie!

No appointment necessary.

Valentine’s Day Special

Tuesday, February 14, 2017

25% off all merchandise (excluding sale items)

Stop by golf course and buy your special golfer a Valentine’s gift.

Special Star Membership price for JV Residents

\$30 per year from the date purchase. Save \$4 off the public rates. Receive monthly specials only for Star members. (posted in the pro shop each month)

Jersey Village Resident February Special

12 Medium Bucket Range Card

Regular price \$50

JV Resident price \$30.

Expires 2/28/17

Present this coupon to the pro shop at time of purchase.



Jersey Meadow Spring Break Golf Camp

Open to boys & girls from age 6 through 14.

\$200 per student

March 13th – March 17th
8:00 am – 12:00 pm

Sessions Includes:

- * Foot Golf
- * Disc Golf
- * Mini Golf
- * Real Golf

Excellent student to instructor ratio

Lunch included each day

No limit to the number of students

No equipment necessary to participate

Don’t Forget to Register Your Dog or Cat



This is a reminder that the City of Jersey Village requires all dogs or cats to have the animal vaccination against rabies by the time the animal is four months of age and at regular intervals thereafter as prescribed by board rule. Be sure to bring your pet’s rabies vaccination certificate. Every person owning, keeping or having in possession

any dog or cat shall pay an annual license fee and receive a pet tag which shall be effective for a period of one year from the date of issuance.

Pet tags can be purchased at City Hall, located at 16327 Lakeview Drive, for \$5.00 Monday through Friday from 8:00 AM to 5:00 PM.

If you have any questions please contact code enforcement/animal control at 713-466-2129.

Long-Term Recovery Plan Update

The next public meeting is tentatively scheduled for March 23, 2017 at 7:00p.m. The project is on schedule and moving forward with Phase II. This phase will involve identifying and analyzing alternatives to mitigate flooding issues within Jersey Village. The Consultants (Dannenbaum) will be looking at many options to find the most economical, social and environmentally sound solutions. Please make sure to check the city website for further updates and information: www.jerseyvillage.info.

Sunday, April 9 at 2 p.m.

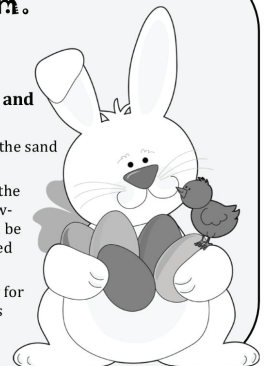
Carol Fox Park

Hunt for eggs with traditional Easter treats and special eggs containing coupons for prizes.

First hunt for ages 0-3 starts promptly at 2:00pm in the sand volleyball area on the south side of the park.

A hunt for ages 4-9 will start immediately following the first hunt with the last hunt for ages 10 and up following the second hunt. The second and third hunts will be inside the park. Children must be with and supervised by their parents!

The park will be closed starting at 2:00 p.m. to allow for hiding the eggs and will reopen when the last hunt is concluded.





Jersey Village Star

Long Term Flood Recovery Plan — Public Meeting

A Public Meeting will take place at City Hall, 16327 Lakeview Drive on March 23, 2017, starting at 7:00 p.m. The meeting will address the progress of the City's Long Term Flood Recovery Plan. This update will include the study scope and schedule, and provide information on structural and non-structural alternatives that have been analyzed to

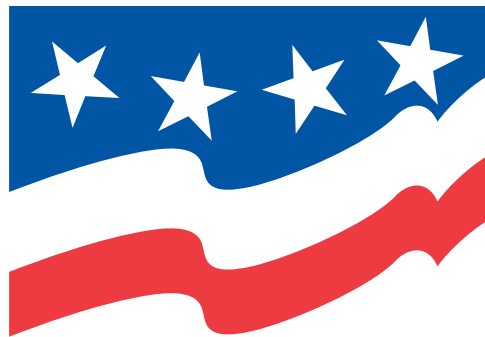
reduce flooding effects. Representatives from Dannenbaum Engineering will be on hand to answer questions and concerns that you may have. Public feedback and participation will continue to be encouraged throughout the duration of the study. Stay informed by visiting the City's website at www.jerseyvillage.info. ★

★ ★ ★
**Statistics for January 2017
JV Police Department**

Calls for Service	1754
Vehicle Theft	2
Aggravated Assault	1
Burglary, Business	1
Burglary, Residence	0
Burglary, Vehicle	2
Disturbance	51
Narcotics, Felony	1
Minor Accidents	102
Major Accidents	10
Alarms	90
Suspicious Person	306
Traffic Control	2
Traffic Hazard	69

JV Fire Department

Building Fires	0
Auto Fires	1
Other Fires	1
Rescue/EMS Incidents	66
Hazardous Conditions	4
Service Calls	33
Smoke or Odor Calls	1
False Alarms/Cancelled Enroute	8
Total Ambulance Transports	41



Emergency Call	911
Main Number	713.466.2100
City Manager	713.466.2108
City Secretary	713.466.2102
Fire Department	713.466.2130
Police Department	713.466.2123
Permits	713.466.2110
Public Works	713.466.2133
Code Enforcement & Animal Control	713.466.2129
Water Billing	713.466.2111
Municipal Court	713.466.2124
Golf Course	713.896.0900
City Pool	832.467.1032
JV Star	713.466.2108

★ ★ ★
Inside this issue of the



Flood Recovery Plan	1
Tree Trimming Reminder	2
Coody Graduates	2
New City Manager	2
Egg Hunt	2
Golf News	3
Spring Fling	4

★ ★ ★
**For more information visit
www.jerseyvillage.info**

E-blast

Please join us for a Public Meeting for the
**CITY OF JERSEY VILLAGE
LONG-TERM FLOOD
RECOVERY PLAN**



The City of Jersey Village will host an open-house style public meeting on March 23, 2017, to encourage public participation and feedback in the **City of Jersey Village Long-term Flood Recovery Plan**.

The Long-term Flood Recovery Plan study team has concluded Phase 1 (Data Collection) of the City of Jersey Village Long-term Flood Recovery Plan. Phase 1 included a public scoping meeting on October 18, 2016, data collection from public agencies, a topographic survey of homes, and a survey mailed to 2,437 properties in Jersey Village requesting input on flooding observed by local residents. Now, as the study team concludes the major technical study that defines Phase 2 (Technical Analysis and Alternatives Development), the public's continued participation is encouraged. Phase 2 of the plan includes a Rapid Assessment structural inventory of homes in the floodplain, hydrologic and hydraulic modeling, and structural and non-structural alternatives development and analysis, as well as economic, environmental, and social assessments. During Phase 3, the Long-term Flood Recovery Plan study team will use findings and public input from Phase 2 to recommend a hydraulically, economically, environmentally, and socially feasible Long-term Flood Recovery Plan for the City of Jersey Village. Phase 3 is currently scheduled to conclude in Summer 2017 with a public meeting presenting the recommended alternatives, financing plan, and environmental summary report that comprise the City of Jersey Village Long-term Flood Recovery Plan.

Public feedback and participation will continue to be encouraged throughout the duration of the study. The Phase 2 public meeting will be held on the following date at the following location:

**Thursday, March 23, 2017
7:00 p.m. to 9:00 p.m.
Jersey Village Civic Center
16327 Lakeview Dr.
Jersey Village, TX 77040**

During the public meeting, alternatives will be presented, and the public is invited to participate and provide feedback. Informational displays will be available for public viewing, and study team representatives will be available to provide information and answer questions before and after the meeting.

The purpose of this public meeting is to:

- Provide updated information about the study scope and schedule
- Provide information about opportunities for the public to participate in the planning study
- Present structural and non-structural alternatives for the public to provide feedback

Comments will be accepted at the public meetings and throughout the duration of the study. All comments should be submitted or postmarked by **April 21, 2017**, to be considered in Phase 3 of the study. Please provide your name and address on your comment form, letter, or email. Those who are unable to attend the public meeting may submit written comments via mail or email. Submit comments to:

**Long-term Flood Recovery Plan
402 Teetshorn Street
Houston, Texas 77009**

or

JVfloodRecovery@crouchenvironmental.com.

For more information about this study, visit **www.jerseyvillage.info**.

The public meeting will be conducted in English. If hearing impaired or language translation services are needed, please contact the Long-term Flood Recovery Plan study team at **713-868-1043** or at **JVfloodRecovery@crouchenvironmental.com** by **Friday, March 17, 2017**. The study team will make every reasonable effort to accommodate these needs.

Web Banner

Please join us for a Public Meeting for the

**CITY OF JERSEY VILLAGE
LONG-TERM FLOOD
RECOVERY PLAN**

Thursday, March 23, 2017, 7 – 9 p.m.

Jersey Village Civic Center

16327 Lakeview Dr.

Jersey Village, TX 77040

Yard Sign

PUBLIC MEETING

Jersey Village Long-term Flood Recovery Plan

Thur., March 23, 2017, 7 – 9 p.m.

Jersey Village Civic Center

16327 Lakeview Dr.

Jersey Village, TX 77040

Appendix B
Elected Official Noticing

Elected Official Mailing List

Elected Official Mailing List
City of Jersey Village Long-term Flood Recovery Plan

Salutation	Position	First Name	Last Name	Organization	District	Mailing Address	City	State	Zip
U.S. Senate									
The Honorable	Senator	John	Cornyn	U.S. Senate		5300 Memorial Drive, Suite 980	Houston	TX	77007
The Honorable	Senator	Ted	Cruz	U.S. Senate		808 Travis Street, Suite 1420	Houston	TX	77002
U.S. Congress									
The Honorable	Congressman	Ted	Poe	U.S. House of Representatives	Congressional District 2	1801 Kingwood Drive, Suite 240	Kingwood	TX	77339
The Honorable	Congressman	John	Culberson	U.S. House of Representatives	Congressional District 7	10000 Memorial Drive, Suite 620	Houston	TX	77024
Texas Senate									
The Honorable	Senator	Paul	Bettencourt	Texas State Senate	Texas State Senate District 7	11451 Katy Freeway, Suite 209	Houston	TX	77079
Texas House of Representatives									
The Honorable	Representative	Gary	Elkins	Texas House of Representatives	Texas State House District 135	9601 Jones Road, Suite 215	Houston	TX	77065
Harris County									
The Honorable	County Judge	Ed	Emmett	Harris County		1001 Preston, Suite 911	Houston	TX	77002
The Honorable	Commissioner	R. Jack	Cagle	Harris County	Precinct 4	1001 Preston, Suite 950	Houston	TX	77002
Mr.	County Engineer	John R.	Blount, P.E.	Harris County		1001 Preston, 7th Floor	Houston	TX	77002

Elected Official Letters



The City of Jersey Village Long-term Flood Recovery Plan

March 13, 2017

City of Jersey Village

The Honorable John Cornyn

ATTN: COMMUNITY INVOLVEMENT DIRECTOR

5300 Memorial Drive, Suite 980

Houston, TX 77007

RE: Notice of Public Meeting
City of Jersey Village Long-term Flood Recovery Plan

Dear Senator Cornyn:

This letter is to notify you of an open-house style public meeting hosted by the City of Jersey Village on March 23, 2017, to encourage public participation and feedback in the City of Jersey Village Long-term Flood Recovery Plan.

The Long-term Flood Recovery Plan study team has concluded Phase 1 (Data Collection) of the City of Jersey Village Long-term Flood Recovery Plan, which included a public scoping meeting on October 18, 2016, data collection from public agencies, and a survey mailed to 2,437 properties in Jersey Village requesting input on flooding observed by local residents. Now, as the study team concludes the major technical study that defines Phase 2 (Technical Analysis and Alternatives Development), the public's continued participation is encouraged. Phase 2 of the plan includes a Rapid Assessment structural inventory of homes in the floodplain, hydrologic and hydraulic modeling, and structural and non-structural alternatives development and analysis, as well as economic, environmental, and social assessments. During Phase 3, the Long-term Flood Recovery Plan study team will use findings and public input from Phase 2 to recommend a hydraulically, economically, environmentally, and socially feasible Long-term Flood Recovery Plan for the City of Jersey Village. Phase 3 is currently scheduled to conclude in summer 2017 with a public meeting presenting the recommended alternatives, financing plan, and environmental summary report that comprise the City of Jersey Village Long-term Flood Recovery Plan.

You, or your representative, are cordially invited to attend this meeting, which will be held as follows:

**Thursday, March 23, 2017
7:00 p.m. to 9:00 p.m.
Jersey Village Civic Center
16327 Lakeview Dr.
Jersey Village, TX 77040**

During the public meeting, alternatives will be presented, and the public is invited to participate and provide feedback. Informational displays will be available for public viewing, and study team representatives will be available to provide information and answer questions before and after the meeting.

The purpose of this public meeting is to:

- Provide updated information about the study scope and schedule
- Provide information about opportunities for the public to participate in the planning study
- Present structural and non-structural alternatives for the public to provide feedback

For more information about this study, visit www.ci.jersey-village.tx.us.

Plan representatives are available to meet with you to answer any questions that you may have regarding the plan. For technical questions concerning the study, please contact Mr. Al Flores, P.E., D.WRE, CFM, Manager Hydrology & Hydraulics Division/Chief Hydrologist, Dannenbaum Engineering Corporation, directly at 713-527-6365 or Al.Flores@dannenbaum.com. For general questions concerning the study, please contact Mr. Kevin Hagerich, Director of Public Works, City of Jersey Village, directly at 713-466-2107 or khagerich@ci.jersey-village.tx.us.

Sincerely,

A handwritten signature in blue ink, appearing to read "Justin Ray". The signature is stylized with large loops and a horizontal line across the middle.

Justin Ray
Mayor, City of Jersey Village
The City of Jersey Village Long-term Flood Recovery Plan

Attachments: Public Notice



The City of Jersey Village Long-term Flood Recovery Plan

March 13, 2017

City of Jersey Village

The Honorable Ted Cruz

ATTN: COMMUNITY INVOLVEMENT DIRECTOR

808 Travis Street, Suite 1420

Houston, TX 77002

RE: Notice of Public Meeting
City of Jersey Village Long-term Flood Recovery Plan

Dear Senator Cruz:

This letter is to notify you of an open-house style public meeting hosted by the City of Jersey Village on March 23, 2017, to encourage public participation and feedback in the City of Jersey Village Long-term Flood Recovery Plan.

The Long-term Flood Recovery Plan study team has concluded Phase 1 (Data Collection) of the City of Jersey Village Long-term Flood Recovery Plan, which included a public scoping meeting on October 18, 2016, data collection from public agencies, and a survey mailed to 2,437 properties in Jersey Village requesting input on flooding observed by local residents. Now, as the study team concludes the major technical study that defines Phase 2 (Technical Analysis and Alternatives Development), the public's continued participation is encouraged. Phase 2 of the plan includes a Rapid Assessment structural inventory of homes in the floodplain, hydrologic and hydraulic modeling, and structural and non-structural alternatives development and analysis, as well as economic, environmental, and social assessments. During Phase 3, the Long-term Flood Recovery Plan study team will use findings and public input from Phase 2 to recommend a hydraulically, economically, environmentally, and socially feasible Long-term Flood Recovery Plan for the City of Jersey Village. Phase 3 is currently scheduled to conclude in summer 2017 with a public meeting presenting the recommended alternatives, financing plan, and environmental summary report that comprise the City of Jersey Village Long-term Flood Recovery Plan.

You, or your representative, are cordially invited to attend this meeting, which will be held as follows:

**Thursday, March 23, 2017
7:00 p.m. to 9:00 p.m.
Jersey Village Civic Center
16327 Lakeview Dr.
Jersey Village, TX 77040**

During the public meeting, alternatives will be presented, and the public is invited to participate and provide feedback. Informational displays will be available for public viewing, and study team representatives will be available to provide information and answer questions before and after the meeting.

The purpose of this public meeting is to:

- Provide updated information about the study scope and schedule
- Provide information about opportunities for the public to participate in the planning study
- Present structural and non-structural alternatives for the public to provide feedback

For more information about this study, visit www.ci.jersey-village.tx.us.

Plan representatives are available to meet with you to answer any questions that you may have regarding the plan. For technical questions concerning the study, please contact Mr. Al Flores, P.E., D.WRE, CFM, Manager Hydrology & Hydraulics Division/Chief Hydrologist, Dannenbaum Engineering Corporation, directly at 713-527-6365 or Al.Flores@dannenbaum.com. For general questions concerning the study, please contact Mr. Kevin Hagerich, Director of Public Works, City of Jersey Village, directly at 713-466-2107 or khagerich@ci.jersey-village.tx.us.

Sincerely,

A handwritten signature in blue ink, appearing to read "Justin Ray". The signature is stylized with large loops and a horizontal line across the middle.

Justin Ray
Mayor, City of Jersey Village
The City of Jersey Village Long-term Flood Recovery Plan

Attachments: Public Notice



The City of Jersey Village Long-term Flood Recovery Plan

March 13, 2017

City of Jersey Village

The Honorable Ted Poe

ATTN: COMMUNITY INVOLVEMENT DIRECTOR

1801 Kingwood Drive, Suite 240

Kingwood, TX 77339

RE: Notice of Public Meeting
City of Jersey Village Long-term Flood Recovery Plan

Dear Congressman Poe:

This letter is to notify you of an open-house style public meeting hosted by the City of Jersey Village on March 23, 2017, to encourage public participation and feedback in the City of Jersey Village Long-term Flood Recovery Plan.

The Long-term Flood Recovery Plan study team has concluded Phase 1 (Data Collection) of the City of Jersey Village Long-term Flood Recovery Plan, which included a public scoping meeting on October 18, 2016, data collection from public agencies, and a survey mailed to 2,437 properties in Jersey Village requesting input on flooding observed by local residents. Now, as the study team concludes the major technical study that defines Phase 2 (Technical Analysis and Alternatives Development), the public's continued participation is encouraged. Phase 2 of the plan includes a Rapid Assessment structural inventory of homes in the floodplain, hydrologic and hydraulic modeling, and structural and non-structural alternatives development and analysis, as well as economic, environmental, and social assessments. During Phase 3, the Long-term Flood Recovery Plan study team will use findings and public input from Phase 2 to recommend a hydraulically, economically, environmentally, and socially feasible Long-term Flood Recovery Plan for the City of Jersey Village. Phase 3 is currently scheduled to conclude in summer 2017 with a public meeting presenting the recommended alternatives, financing plan, and environmental summary report that comprise the City of Jersey Village Long-term Flood Recovery Plan.

You, or your representative, are cordially invited to attend this meeting, which will be held as follows:

**Thursday, March 23, 2017
7:00 p.m. to 9:00 p.m.
Jersey Village Civic Center
16327 Lakeview Dr.
Jersey Village, TX 77040**

During the public meeting, alternatives will be presented, and the public is invited to participate and provide feedback. Informational displays will be available for public viewing, and study team representatives will be available to provide information and answer questions before and after the meeting.

The purpose of this public meeting is to:

- Provide updated information about the study scope and schedule
- Provide information about opportunities for the public to participate in the planning study
- Present structural and non-structural alternatives for the public to provide feedback

For more information about this study, visit www.ci.jersey-village.tx.us.

Plan representatives are available to meet with you to answer any questions that you may have regarding the plan. For technical questions concerning the study, please contact Mr. Al Flores, P.E., D.WRE, CFM, Manager Hydrology & Hydraulics Division/Chief Hydrologist, Dannenbaum Engineering Corporation, directly at 713-527-6365 or Al.Flores@dannenbaum.com. For general questions concerning the study, please contact Mr. Kevin Hagerich, Director of Public Works, City of Jersey Village, directly at 713-466-2107 or khagerich@ci.jersey-village.tx.us.

Sincerely,

A handwritten signature in blue ink, appearing to read "Justin Ray". The signature is stylized with large loops and a horizontal line across the middle.

Justin Ray
Mayor, City of Jersey Village
The City of Jersey Village Long-term Flood Recovery Plan

Attachments: Public Notice



The City of Jersey Village Long-term Flood Recovery Plan

March 13, 2017

City of Jersey Village

The Honorable John Culberson

ATTN: COMMUNITY INVOLVEMENT DIRECTOR

10000 Memorial Drive, Suite 620

Houston, TX 77024

RE: Notice of Public Meeting
City of Jersey Village Long-term Flood Recovery Plan

Dear Congressman Culberson:

This letter is to notify you of an open-house style public meeting hosted by the City of Jersey Village on March 23, 2017, to encourage public participation and feedback in the City of Jersey Village Long-term Flood Recovery Plan.

The Long-term Flood Recovery Plan study team has concluded Phase 1 (Data Collection) of the City of Jersey Village Long-term Flood Recovery Plan, which included a public scoping meeting on October 18, 2016, data collection from public agencies, and a survey mailed to 2,437 properties in Jersey Village requesting input on flooding observed by local residents. Now, as the study team concludes the major technical study that defines Phase 2 (Technical Analysis and Alternatives Development), the public's continued participation is encouraged. Phase 2 of the plan includes a Rapid Assessment structural inventory of homes in the floodplain, hydrologic and hydraulic modeling, and structural and non-structural alternatives development and analysis, as well as economic, environmental, and social assessments. During Phase 3, the Long-term Flood Recovery Plan study team will use findings and public input from Phase 2 to recommend a hydraulically, economically, environmentally, and socially feasible Long-term Flood Recovery Plan for the City of Jersey Village. Phase 3 is currently scheduled to conclude in summer 2017 with a public meeting presenting the recommended alternatives, financing plan, and environmental summary report that comprise the City of Jersey Village Long-term Flood Recovery Plan.

You, or your representative, are cordially invited to attend this meeting, which will be held as follows:

**Thursday, March 23, 2017
7:00 p.m. to 9:00 p.m.
Jersey Village Civic Center
16327 Lakeview Dr.
Jersey Village, TX 77040**

During the public meeting, alternatives will be presented, and the public is invited to participate and provide feedback. Informational displays will be available for public viewing, and study team representatives will be available to provide information and answer questions before and after the meeting.

The purpose of this public meeting is to:

- Provide updated information about the study scope and schedule
- Provide information about opportunities for the public to participate in the planning study
- Present structural and non-structural alternatives for the public to provide feedback

For more information about this study, visit www.ci.jersey-village.tx.us.

Plan representatives are available to meet with you to answer any questions that you may have regarding the plan. For technical questions concerning the study, please contact Mr. Al Flores, P.E., D.WRE, CFM, Manager Hydrology & Hydraulics Division/Chief Hydrologist, Dannenbaum Engineering Corporation, directly at 713-527-6365 or Al.Flores@dannenbaum.com. For general questions concerning the study, please contact Mr. Kevin Hagerich, Director of Public Works, City of Jersey Village, directly at 713-466-2107 or khagerich@ci.jersey-village.tx.us.

Sincerely,

A handwritten signature in blue ink, appearing to read 'Justin Ray', with a stylized, cursive script.

Justin Ray
Mayor, City of Jersey Village
The City of Jersey Village Long-term Flood Recovery Plan

Attachments: Public Notice



The City of Jersey Village Long-term Flood Recovery Plan

March 13, 2017

City of Jersey Village

The Honorable Paul Bettencourt

ATTN: COMMUNITY INVOLVEMENT DIRECTOR

11451 Katy Freeway, Suite 209

Houston, TX 77079

RE: Notice of Public Meeting
City of Jersey Village Long-term Flood Recovery Plan

Dear Senator Bettencourt:

This letter is to notify you of an open-house style public meeting hosted by the City of Jersey Village on March 23, 2017, to encourage public participation and feedback in the City of Jersey Village Long-term Flood Recovery Plan.

The Long-term Flood Recovery Plan study team has concluded Phase 1 (Data Collection) of the City of Jersey Village Long-term Flood Recovery Plan, which included a public scoping meeting on October 18, 2016, data collection from public agencies, and a survey mailed to 2,437 properties in Jersey Village requesting input on flooding observed by local residents. Now, as the study team concludes the major technical study that defines Phase 2 (Technical Analysis and Alternatives Development), the public's continued participation is encouraged. Phase 2 of the plan includes a Rapid Assessment structural inventory of homes in the floodplain, hydrologic and hydraulic modeling, and structural and non-structural alternatives development and analysis, as well as economic, environmental, and social assessments. During Phase 3, the Long-term Flood Recovery Plan study team will use findings and public input from Phase 2 to recommend a hydraulically, economically, environmentally, and socially feasible Long-term Flood Recovery Plan for the City of Jersey Village. Phase 3 is currently scheduled to conclude in summer 2017 with a public meeting presenting the recommended alternatives, financing plan, and environmental summary report that comprise the City of Jersey Village Long-term Flood Recovery Plan.

You, or your representative, are cordially invited to attend this meeting, which will be held as follows:

**Thursday, March 23, 2017
7:00 p.m. to 9:00 p.m.
Jersey Village Civic Center
16327 Lakeview Dr.
Jersey Village, TX 77040**

During the public meeting, alternatives will be presented, and the public is invited to participate and provide feedback. Informational displays will be available for public viewing, and study team representatives will be available to provide information and answer questions before and after the meeting.

The purpose of this public meeting is to:

- Provide updated information about the study scope and schedule
- Provide information about opportunities for the public to participate in the planning study
- Present structural and non-structural alternatives for the public to provide feedback

For more information about this study, visit www.ci.jersey-village.tx.us.

Plan representatives are available to meet with you to answer any questions that you may have regarding the plan. For technical questions concerning the study, please contact Mr. Al Flores, P.E., D.WRE, CFM, Manager Hydrology & Hydraulics Division/Chief Hydrologist, Dannenbaum Engineering Corporation, directly at 713-527-6365 or Al.Flores@dannenbaum.com. For general questions concerning the study, please contact Mr. Kevin Hagerich, Director of Public Works, City of Jersey Village, directly at 713-466-2107 or khagerich@ci.jersey-village.tx.us.

Sincerely,

A handwritten signature in blue ink, appearing to read "Justin Ray". The signature is stylized with large loops and a horizontal line across the middle.

Justin Ray
Mayor, City of Jersey Village
The City of Jersey Village Long-term Flood Recovery Plan

Attachments: Public Notice



The City of Jersey Village Long-term Flood Recovery Plan

March 13, 2017

City of Jersey Village

The Honorable Gary Elkins

ATTN: COMMUNITY INVOLVEMENT DIRECTOR

9601 Jones Road, Suite 215

Houston, TX 77065

RE: Notice of Public Meeting
City of Jersey Village Long-term Flood Recovery Plan

Dear Representative Elkins:

This letter is to notify you of an open-house style public meeting hosted by the City of Jersey Village on March 23, 2017, to encourage public participation and feedback in the City of Jersey Village Long-term Flood Recovery Plan.

The Long-term Flood Recovery Plan study team has concluded Phase 1 (Data Collection) of the City of Jersey Village Long-term Flood Recovery Plan, which included a public scoping meeting on October 18, 2016, data collection from public agencies, and a survey mailed to 2,437 properties in Jersey Village requesting input on flooding observed by local residents. Now, as the study team concludes the major technical study that defines Phase 2 (Technical Analysis and Alternatives Development), the public's continued participation is encouraged. Phase 2 of the plan includes a Rapid Assessment structural inventory of homes in the floodplain, hydrologic and hydraulic modeling, and structural and non-structural alternatives development and analysis, as well as economic, environmental, and social assessments. During Phase 3, the Long-term Flood Recovery Plan study team will use findings and public input from Phase 2 to recommend a hydraulically, economically, environmentally, and socially feasible Long-term Flood Recovery Plan for the City of Jersey Village. Phase 3 is currently scheduled to conclude in summer 2017 with a public meeting presenting the recommended alternatives, financing plan, and environmental summary report that comprise the City of Jersey Village Long-term Flood Recovery Plan.

You, or your representative, are cordially invited to attend this meeting, which will be held as follows:

**Thursday, March 23, 2017
7:00 p.m. to 9:00 p.m.
Jersey Village Civic Center
16327 Lakeview Dr.
Jersey Village, TX 77040**

During the public meeting, alternatives will be presented, and the public is invited to participate and provide feedback. Informational displays will be available for public viewing, and study team representatives will be available to provide information and answer questions before and after the meeting.

The purpose of this public meeting is to:

- Provide updated information about the study scope and schedule
- Provide information about opportunities for the public to participate in the planning study
- Present structural and non-structural alternatives for the public to provide feedback

For more information about this study, visit www.ci.jersey-village.tx.us.

Plan representatives are available to meet with you to answer any questions that you may have regarding the plan. For technical questions concerning the study, please contact Mr. Al Flores, P.E., D.WRE, CFM, Manager Hydrology & Hydraulics Division/Chief Hydrologist, Dannenbaum Engineering Corporation, directly at 713-527-6365 or Al.Flores@dannenbaum.com. For general questions concerning the study, please contact Mr. Kevin Hagerich, Director of Public Works, City of Jersey Village, directly at 713-466-2107 or khagerich@ci.jersey-village.tx.us.

Sincerely,

A handwritten signature in blue ink, appearing to read "Justin Ray", with a stylized, cursive script.

Justin Ray
Mayor, City of Jersey Village
The City of Jersey Village Long-term Flood Recovery Plan

Attachments: Public Notice



The City of Jersey Village Long-term Flood Recovery Plan

March 13, 2017

City of Jersey Village

The Honorable Ed Emmett

ATTN: COMMUNITY INVOLVEMENT DIRECTOR

1001 Preston, Suite 911

Houston, TX 77002

RE: Notice of Public Meeting
City of Jersey Village Long-term Flood Recovery Plan

Dear Judge Emmett:

This letter is to notify you of an open-house style public meeting hosted by the City of Jersey Village on March 23, 2017, to encourage public participation and feedback in the City of Jersey Village Long-term Flood Recovery Plan.

The Long-term Flood Recovery Plan study team has concluded Phase 1 (Data Collection) of the City of Jersey Village Long-term Flood Recovery Plan, which included a public scoping meeting on October 18, 2016, data collection from public agencies, and a survey mailed to 2,437 properties in Jersey Village requesting input on flooding observed by local residents. Now, as the study team concludes the major technical study that defines Phase 2 (Technical Analysis and Alternatives Development), the public's continued participation is encouraged. Phase 2 of the plan includes a Rapid Assessment structural inventory of homes in the floodplain, hydrologic and hydraulic modeling, and structural and non-structural alternatives development and analysis, as well as economic, environmental, and social assessments. During Phase 3, the Long-term Flood Recovery Plan study team will use findings and public input from Phase 2 to recommend a hydraulically, economically, environmentally, and socially feasible Long-term Flood Recovery Plan for the City of Jersey Village. Phase 3 is currently scheduled to conclude in summer 2017 with a public meeting presenting the recommended alternatives, financing plan, and environmental summary report that comprise the City of Jersey Village Long-term Flood Recovery Plan.

You, or your representative, are cordially invited to attend this meeting, which will be held as follows:

**Thursday, March 23, 2017
7:00 p.m. to 9:00 p.m.
Jersey Village Civic Center
16327 Lakeview Dr.
Jersey Village, TX 77040**

During the public meeting, alternatives will be presented, and the public is invited to participate and provide feedback. Informational displays will be available for public viewing, and study team representatives will be available to provide information and answer questions before and after the meeting.

The purpose of this public meeting is to:

- Provide updated information about the study scope and schedule
- Provide information about opportunities for the public to participate in the planning study
- Present structural and non-structural alternatives for the public to provide feedback

For more information about this study, visit www.ci.jersey-village.tx.us.

Plan representatives are available to meet with you to answer any questions that you may have regarding the plan. For technical questions concerning the study, please contact Mr. Al Flores, P.E., D.WRE, CFM, Manager Hydrology & Hydraulics Division/Chief Hydrologist, Dannenbaum Engineering Corporation, directly at 713-527-6365 or Al.Flores@dannenbaum.com. For general questions concerning the study, please contact Mr. Kevin Hagerich, Director of Public Works, City of Jersey Village, directly at 713-466-2107 or khagerich@ci.jersey-village.tx.us.

Sincerely,

A handwritten signature in blue ink, appearing to read 'Justin Ray', with a stylized, cursive script.

Justin Ray
Mayor, City of Jersey Village
The City of Jersey Village Long-term Flood Recovery Plan

Attachments: Public Notice



The City of Jersey Village Long-term Flood Recovery Plan

March 13, 2017

City of Jersey Village

The Honorable R. Jack Cagle

ATTN: COMMUNITY INVOLVEMENT DIRECTOR

1001 Preston, Suite 950

Houston, TX 77002

RE: Notice of Public Meeting
City of Jersey Village Long-term Flood Recovery Plan

Dear Commissioner Cagle:

This letter is to notify you of an open-house style public meeting hosted by the City of Jersey Village on March 23, 2017, to encourage public participation and feedback in the City of Jersey Village Long-term Flood Recovery Plan.

The Long-term Flood Recovery Plan study team has concluded Phase 1 (Data Collection) of the City of Jersey Village Long-term Flood Recovery Plan, which included a public scoping meeting on October 18, 2016, data collection from public agencies, and a survey mailed to 2,437 properties in Jersey Village requesting input on flooding observed by local residents. Now, as the study team concludes the major technical study that defines Phase 2 (Technical Analysis and Alternatives Development), the public's continued participation is encouraged. Phase 2 of the plan includes a Rapid Assessment structural inventory of homes in the floodplain, hydrologic and hydraulic modeling, and structural and non-structural alternatives development and analysis, as well as economic, environmental, and social assessments. During Phase 3, the Long-term Flood Recovery Plan study team will use findings and public input from Phase 2 to recommend a hydraulically, economically, environmentally, and socially feasible Long-term Flood Recovery Plan for the City of Jersey Village. Phase 3 is currently scheduled to conclude in summer 2017 with a public meeting presenting the recommended alternatives, financing plan, and environmental summary report that comprise the City of Jersey Village Long-term Flood Recovery Plan.

You, or your representative, are cordially invited to attend this meeting, which will be held as follows:

**Thursday, March 23, 2017
7:00 p.m. to 9:00 p.m.
Jersey Village Civic Center
16327 Lakeview Dr.
Jersey Village, TX 77040**

During the public meeting, alternatives will be presented, and the public is invited to participate and provide feedback. Informational displays will be available for public viewing, and study team representatives will be available to provide information and answer questions before and after the meeting.

The purpose of this public meeting is to:

- Provide updated information about the study scope and schedule
- Provide information about opportunities for the public to participate in the planning study
- Present structural and non-structural alternatives for the public to provide feedback

For more information about this study, visit www.ci.jersey-village.tx.us.

Plan representatives are available to meet with you to answer any questions that you may have regarding the plan. For technical questions concerning the study, please contact Mr. Al Flores, P.E., D.WRE, CFM, Manager Hydrology & Hydraulics Division/Chief Hydrologist, Dannenbaum Engineering Corporation, directly at 713-527-6365 or Al.Flores@dannenbaum.com. For general questions concerning the study, please contact Mr. Kevin Hagerich, Director of Public Works, City of Jersey Village, directly at 713-466-2107 or khagerich@ci.jersey-village.tx.us.

Sincerely,

A handwritten signature in blue ink, appearing to read "Justin Ray". The signature is stylized with large loops and a horizontal line across the middle.

Justin Ray
Mayor, City of Jersey Village
The City of Jersey Village Long-term Flood Recovery Plan

Attachments: Public Notice



The City of Jersey Village Long-term Flood Recovery Plan

March 13, 2017

City of Jersey Village

John R. Blount, P.E.

ATTN: COMMUNITY INVOLVEMENT DIRECTOR

1001 Preston, 7th Floor

Houston, TX 77002

RE: Notice of Public Meeting
City of Jersey Village Long-term Flood Recovery Plan

Dear Mr. Blount:

This letter is to notify you of an open-house style public meeting hosted by the City of Jersey Village on March 23, 2017, to encourage public participation and feedback in the City of Jersey Village Long-term Flood Recovery Plan.

The Long-term Flood Recovery Plan study team has concluded Phase 1 (Data Collection) of the City of Jersey Village Long-term Flood Recovery Plan, which included a public scoping meeting on October 18, 2016, data collection from public agencies, and a survey mailed to 2,437 properties in Jersey Village requesting input on flooding observed by local residents. Now, as the study team concludes the major technical study that defines Phase 2 (Technical Analysis and Alternatives Development), the public's continued participation is encouraged. Phase 2 of the plan includes a Rapid Assessment structural inventory of homes in the floodplain, hydrologic and hydraulic modeling, and structural and non-structural alternatives development and analysis, as well as economic, environmental, and social assessments. During Phase 3, the Long-term Flood Recovery Plan study team will use findings and public input from Phase 2 to recommend a hydraulically, economically, environmentally, and socially feasible Long-term Flood Recovery Plan for the City of Jersey Village. Phase 3 is currently scheduled to conclude in summer 2017 with a public meeting presenting the recommended alternatives, financing plan, and environmental summary report that comprise the City of Jersey Village Long-term Flood Recovery Plan.

You, or your representative, are cordially invited to attend this meeting, which will be held as follows:

**Thursday, March 23, 2017
7:00 p.m. to 9:00 p.m.
Jersey Village Civic Center
16327 Lakeview Dr.
Jersey Village, TX 77040**

During the public meeting, alternatives will be presented, and the public is invited to participate and provide feedback. Informational displays will be available for public viewing, and study team representatives will be available to provide information and answer questions before and after the meeting.

The purpose of this public meeting is to:

- Provide updated information about the study scope and schedule
- Provide information about opportunities for the public to participate in the planning study
- Present structural and non-structural alternatives for the public to provide feedback

For more information about this study, visit www.ci.jersey-village.tx.us.

Plan representatives are available to meet with you to answer any questions that you may have regarding the plan. For technical questions concerning the study, please contact Mr. Al Flores, P.E., D.WRE, CFM, Manager Hydrology & Hydraulics Division/Chief Hydrologist, Dannenbaum Engineering Corporation, directly at 713-527-6365 or Al.Flores@dannenbaum.com. For general questions concerning the study, please contact Mr. Kevin Hagerich, Director of Public Works, City of Jersey Village, directly at 713-466-2107 or khagerich@ci.jersey-village.tx.us.

Sincerely,

A handwritten signature in blue ink, appearing to read 'Justin Ray', with a stylized, cursive script.

Justin Ray
Mayor, City of Jersey Village
The City of Jersey Village Long-term Flood Recovery Plan

Attachments: Public Notice

Appendix C

Attendee Database

Jersey Village Long-term Flood Recovery Plan Phase 2 Attendee Database

First Name	Last Name	Public Meeting Location	Public Official? If yes, position	Mailing Address	City	State	Zip Code	Email Address	Affiliation	Source of Learning About Public Scoping Meeting	Preferred Method for Receiving Project Info
Jesse	Arriaga	Jersey Village City Hall									
Elizabeth & David	Aufmuth	Jersey Village City Hall									
Brian	Baker	Jersey Village City Hall									
William	Balogh	Jersey Village City Hall									
Glenn	Banks	Jersey Village City Hall									
William	Beazley	Jersey Village City Hall									
Joyce	Berube	Jersey Village City Hall									
Gary	Besemek	Jersey Village City Hall									
Benjamin	Blumenthal	Jersey Village City Hall									
Mark	Bowdoin	Jersey Village City Hall									
James	Brisert	Jersey Village City Hall									
Anne	Brown	Jersey Village City Hall									
Michael	Brown	Jersey Village City Hall									
Judy	Bruner	Jersey Village City Hall									
Vance	Burham	Jersey Village City Hall									
Gerald	Busdosh	Jersey Village City Hall									
Laurel	Calkins	Jersey Village City Hall									
Lisa	Cantu	Jersey Village City Hall									
Phyllis	Chatman	Jersey Village City Hall									

Jersey Village Long-term Flood Recovery Plan Phase 2 Attendee Database

First Name	Last Name	Public Meeting Location	Public Official? If yes, position	Mailing Address	City	State	Zip Code	Email Address	Affiliation	Source of Learning About Public Scoping Meeting	Preferred Method for Receiving Project Info
Gary	Clarke	Jersey Village City Hall									
Meg	Crady	Jersey Village City Hall									
Chirone	Desmond	Jersey Village City Hall									
Susan	Dougle	Jersey Village City Hall									
Joe	Dupree	Jersey Village City Hall									
Susan	Edwards	Jersey Village City Hall									
Bill	Edwards	Jersey Village City Hall									
Bill & Stacey	Ensell	Jersey Village City Hall									
Rod & Barbara	Erskine	Jersey Village City Hall									
Elton	Exner	Jersey Village City Hall									
Gary	Falkenberg	Jersey Village City Hall									
Nelson	Farmer	Jersey Village City Hall									
Terri	Favrot	Jersey Village City Hall									
Phyllis & Don	Feil	Jersey Village City Hall									
Stephanie	Fiorenza	Jersey Village City Hall									
James A.	Fischer	Jersey Village City Hall									
Neil & Shirley	Foreman	Jersey Village City Hall									
Eric	Forester	Jersey Village City Hall									
Jeremy	Fowler	Jersey Village City Hall									

Jersey Village Long-term Flood Recovery Plan Phase 2 Attendee Database

First Name	Last Name	Public Meeting Location	Public Official? If yes, position	Mailing Address	City	State	Zip Code	Email Address	Affiliation	Source of Learning About Public Scoping Meeting	Preferred Method for Receiving Project Info
Susan	Gilbert	Jersey Village City Hall									
Joe & Diana	Green	Jersey Village City Hall									
Kelly	Gregory	Jersey Village City Hall									
Bernie	Guzzetta	Jersey Village City Hall									
Diane	Harper	Jersey Village City Hall									
Dave & Jill	Hasling	Jersey Village City Hall									
Billy	Herbert	Jersey Village City Hall									
Jeanne	Honganen	Jersey Village City Hall									
Curt & Brenda	Howerty	Jersey Village City Hall									
Carl	Jacksits	Jersey Village City Hall									
Richard	Jacquet	Jersey Village City Hall									
Peter	Jessup	Jersey Village City Hall									
Jeff	Kelly	Jersey Village City Hall									
Reema & Chris	Kesawich	Jersey Village City Hall									
Jeff	Kopeck	Jersey Village City Hall									
Rhonda	Lackey	Jersey Village City Hall									
Jerry	Laumen	Jersey Village City Hall									
Karie	Lawrence	Jersey Village City Hall									
JoAnn	Lehde	Jersey Village City Hall									

Jersey Village Long-term Flood Recovery Plan Phase 2 Attendee Database

First Name	Last Name	Public Meeting Location	Public Official? If yes, position	Mailing Address	City	State	Zip Code	Email Address	Affiliation	Source of Learning About Public Scoping Meeting	Preferred Method for Receiving Project Info
Visente	Lopez	Jersey Village City Hall									
T.J.	Maa	Jersey Village City Hall									
Candace	Macmillen	Jersey Village City Hall									
Ken	Magee	Jersey Village City Hall									
Frank	Maher	Jersey Village City Hall									
Mark	Maloy	Jersey Village City Hall									
Dianne	Maloy	Jersey Village City Hall									
Jason	Manlove	Jersey Village City Hall									
Gary & Nancy	Manuel	Jersey Village City Hall									
Charles R.	Mattair	Jersey Village City Hall									
Debbie	Maurelli	Jersey Village City Hall									
Mike	Mauriello	Jersey Village City Hall									
Deb	Mauriello	Jersey Village City Hall									
George	Mclure	Jersey Village City Hall									
Lee & Elaine	Medlin	Jersey Village City Hall									
Robert	Missall	Jersey Village City Hall									
Akihiro	Mochizuki	Jersey Village City Hall									
Debi	Moore	Jersey Village City Hall									
George	Moore	Jersey Village City Hall									

Jersey Village Long-term Flood Recovery Plan Phase 2 Attendee Database

First Name	Last Name	Public Meeting Location	Public Official? If yes, position	Mailing Address	City	State	Zip Code	Email Address	Affiliation	Source of Learning About Public Scoping Meeting	Preferred Method for Receiving Project Info
Paula	Morris	Jersey Village City Hall									
Greg	Nash	Jersey Village City Hall									
Chet	Nimitz	Jersey Village City Hall									
Nola	Ohler	Jersey Village City Hall									
Johan & Nancy	Oler	Jersey Village City Hall									
Bryan	Oler	Jersey Village City Hall									
Robert	Patin	Jersey Village City Hall									
Pat	Pearsall	Jersey Village City Hall									
J.B.	Pennington	Jersey Village City Hall									
Chris	Perry	Jersey Village City Hall									
John	Petgold	Jersey Village City Hall									
H.G.	Poe	Jersey Village City Hall									
Tamara	Powers	Jersey Village City Hall									
Donna	Prince	Jersey Village City Hall									
Jim	Pulliam	Jersey Village City Hall									
Denise	Reaneau	Jersey Village City Hall									
Donna	Reaneau	Jersey Village City Hall									
Donald E.	Ricketts	Jersey Village City Hall									
Stephen	Rodgers	Jersey Village City Hall									

Jersey Village Long-term Flood Recovery Plan Phase 2 Attendee Database

First Name	Last Name	Public Meeting Location	Public Official? If yes, position	Mailing Address	City	State	Zip Code	Email Address	Affiliation	Source of Learning About Public Scoping Meeting	Preferred Method for Receiving Project Info
Johnny	Rutherford	Jersey Village City Hall									
Mercedes	Schinas	Jersey Village City Hall									
Mary	Schneider	Jersey Village City Hall									
Rise & Bill	Schuster	Jersey Village City Hall									
Tara	Seaman	Jersey Village City Hall									
Gayle	Shearer	Jersey Village City Hall									
Sheri	Sheppard	Jersey Village City Hall									
Diana	Shoop	Jersey Village City Hall									
Annabelle	Silva	Jersey Village City Hall									
Tom	Simchak	Jersey Village City Hall									
Byrne & Marilyn	Smith	Jersey Village City Hall									
Betty	Smith	Jersey Village City Hall									
Gerilyn	Staggs	Jersey Village City Hall									
Dorothy	Starkey	Jersey Village City Hall									
Robert	Starkey	Jersey Village City Hall									
Michael & Anna	Stembridge	Jersey Village City Hall									
Russell	Stevens	Jersey Village City Hall									
Elizabeth	Stinsman	Jersey Village City Hall									
Walter	Stump	Jersey Village City Hall									

Jersey Village Long-term Flood Recovery Plan Phase 2 Attendee Database

First Name	Last Name	Public Meeting Location	Public Official? If yes, position	Mailing Address	City	State	Zip Code	Email Address	Affiliation	Source of Learning About Public Scoping Meeting	Preferred Method for Receiving Project Info
James & Margot	Vossler	Jersey Village City Hall									
Mark	Walz	Jersey Village City Hall									
Candyce	Ward	Jersey Village City Hall									
Bobby	Warren	Jersey Village City Hall									
Walter & Nora	Wheeler	Jersey Village City Hall									
Tom	Williams	Jersey Village City Hall									
Gary	Wubbenhorst	Jersey Village City Hall									
Karen	Yaklin	Jersey Village City Hall									
John	Yarberry	Jersey Village City Hall									
Nancy	Yetter	Jersey Village City Hall									
Harry	Yu	Jersey Village City Hall									
Fred	Ziehe	Jersey Village City Hall									

Appendix D
Completed Attendee Cards

Due to the confidential and sensitive nature of the data provided, this item has been redacted from the public copy of this report.

Appendix E

Comment Database

Jersey Village Long-term Flood Recovery Plan Phase 2 Comment Database

First Name	Last Name	Public Official? If yes, position	Mailing Address	City	State	Zip Code	Email Address	Affiliation	Preferred Method for Receiving Project Info	Source of Learning About the Meeting	Comment Source	Comments
									Mail/Email/Newspaper	Newspaper/Yard Sign	Comment Form	<p>To use quick and expedient action! Like kinda, freak out and get moving. Put our street Capri on the top of the list. It's been missed or bumped many times in our opinion. Is there preferential treatment? Or has there been politics persuasion?</p> <p>More storm sewers - no brainer. Thank you for all ya'll do!!</p> <p>Deepen and widen bayous - no brainer. Cement the bayou.</p> <p>We expect more action to keep this neighborhood in high prestige, or like that. It's going down if not.</p> <p>The Church on senate is an issue!! How can you add drainage to help our street Capri? When and how?</p> <p>Elwood Weir is a problem - draining properly? Really? Is a current a good idea, open it up, widen and cement it.</p> <p>EPA doesn't live here.</p> <p>Next meeting - acknowledge and announce style of meeting. Forum, walk and talk or video.</p> <p>Praying for all best decisions and funding to be provided and achieved.</p>
									Mail		Email	<p>If money was no object the things I would do to help reduce the risk of flooding in the Jersey Village area is: 1. Improve the bayou canals, 2. Use the golf course area as a retention basin, [2.5 sell the land near Jones road for commercial use and to get some of the money for the project] the pond area would be a park for ALL to use. 3. Buy the houses on Wall Street nearest to Senate Ave [make a retention basin area/park] and any houses that would prevent the ability to improve the bayou. 4. If there is a bottle neck at BW8 as the water exits JV then part of Clark W Henry Park needs to be made into a retention basin. 5. I do not know what the elevation of Jersey Lake is but if even just small amount could be diverted that way it may help save a house from damage.</p> <p>The priority is to improve the bayou, which may require purchase of houses, which could then allow for more green space and narrow retention basin.</p>
									Email		Email	<p>Generally liked the presentation. Important that any solution reduces or, preferably, eliminates the 100 year flood plain inclusion of Wall Street. This will eliminate the flood insurance requirement and permit home sales to proceed at close to pre-flood pricing.</p> <p>Without this flood plain eliminated, homes will sell at large discounts and lower everyone's valuations.</p> <p>So, make sure the 100 year flood plain inclusion is eliminated.</p> <p>██████████</p>

Jersey Village Long-term Flood Recovery Plan Phase 2 Comment Database

First Name	Last Name	Public Official? If yes, position	Mailing Address	City	State	Zip Code	Email Address	Affiliation	Preferred Method for Receiving Project Info	Source of Learning About the Meeting	Comment Source	Comments
									Mail	Email	Comment Form	Excellent presentation. I have been a resident of JV for 40 years. In my opinion some of the problems of fixing flooding are: 1) Digging out White Oak Bayou (WOB) 2) Replotting the golf course to allow for additional water detention (but not doing away with the golf course). Another item I want to mention is the land along WOB where homeowners own up to the center of the bayou. The city needs to invite these homeowners to sell that land so that it can be free for HCFCD to dig out the center of the bayou.
											Email	Public Meeting - March 23, 2017: I live at [REDACTED] (older townhouses that back up to the golf course). I own a second townhouse [REDACTED] within the group of seven. Questions from subject meeting handouts: 1) Reference was made to FLOOD INSURANCE RATE MAPS -- Would you provide the web address for subject maps? Somewhere I got the impression that the maps are under update and it might be two years before the update would be available. Seems that the maps might be out of date before they are available. 2) Rapid assessment was to "evaluate how many structures are currently deep in the floodplain and how many of those..... WILL CONTINUE TO BE..... in the floodplain." Is there a list of these structures that I may review to see how I may or may not be affected. 3) Under the topic of "Structural" flood damage reduction measures, one bullet item was Additional Stormwater Detention Facilities including "modification" of the Jersey Meadows Golf Course. Where can I find more detail regarding what "modifications" have been proposed? Channel widening would be a much better option than Detention. Please see additional comments available in Appendix F.
											Email	Will I receive answers to the questions I submitted or will my e-mail end up going to the "dead-letter" file?? Your e-mail was more a "acknowledgement of receipt" and did not contain specific answers to my questions.

Jersey Village Long-term Flood Recovery Plan Phase 2 Comment Database

First Name	Last Name	Public Official? If yes, position	Mailing Address	City	State	Zip Code	Email Address	Affiliation	Preferred Method for Receiving Project Info	Source of Learning About the Meeting	Comment Source	Comments
									Email	Yard Sign	Comment Form	<p>Channelization and buyouts where necessary to accommodate the widening. Is eminent domain applicable?</p> <p>Extensive lake development and channelization on the golf course. Consideration of upstream future development and cooperation with downstream entities, i.e. City of Houston and Harris County.</p> <p>Temporary 'hold' on development north of Hwy 290 until plan is finalized and implemented.</p> <p>Permanent stoppage of groundwater pumping within city limits of Jersey Village by the end of 2017.</p>
									Email	Yard Sign	Comment Form	<p>Our home has flooded 3 times since purchased in 15 years. It also flooded 2-4 times prior to that.</p> <p>We want to be bought out because we cannot afford the \$5,200 it costs for flood insurance.</p> <p>One of the times it flooded only two houses in JV flooded, ours and our next door neighbors. The bayou bends right behind our houses. What are they going to do with the pipeline that runs through the bayou since it's no longer being used.</p> <p>Debris buildup during flooding events has contributed to the water flow being deviated from the bayou through our yard and house.</p>
											Email	<p>Much has been said about the flooding with various solutions to the problem. My wife and I have lived in the same location [REDACTED] in JV since 1979. Things change including the streets Tenbury and Hawaii.</p> <p>Tenbury Street appears to be sinking in the area in front of our house as well as each side of us. I sent an email to Public Works on May 7, 2014, about this issue and the only response was the street department will look into the situation and develop a plan of action. No other response and the street is still lower there than other places in the street. After rains when trucks drive down the street water comes up thru the expansion joints, this use to not happen. Water goes across the street there first during rain of anything over about .5".</p> <p>Another concern that I have not noticed be addressed are the storm drains themselves. Much debris, leaves, grass, and etc goes down these drains. Near the intersection of Hawaii and Tenbury there is a large hump in the road near the drain prohibiting the draining of water. I strongly feel that citizens need to be aware of not cleaning the curbs and the problems this creates. Also the storm drains should be inspected for stoppage and that they have not collapsed. I don't see this being addressed.</p>

Jersey Village Long-term Flood Recovery Plan Phase 2 Comment Database

First Name	Last Name	Public Official? If yes, position	Mailing Address	City	State	Zip Code	Email Address	Affiliation	Preferred Method for Receiving Project Info	Source of Learning About the Meeting	Comment Source	Comments
									Mail	Yard Sign	Comment Form	Buy homes that have flooded multiple times. Tear them down and have new homes built that will not flood.
									Mail	Notice in Mail/Yard sign	Comment Form	I appreciate all your efforts. I believe with all the "structural" reduction measures you are proposing (bridge improvements, channel improvements, local street drainage assessments, and additional detention facilities) these will still not be adequate. Please include in your proposal: bypass channels, levees/ flood walls; with more serious consideration as primary methods to non-structural tools: Voluntary buy-outs, raising buildings and flood proofing. When you consider how wide and deep the water spreads on both sides of the bayou during floods, the four structural reduction measures will still not be adequate. We need to raise homes and remove homes as a well as implement your four structural proposals. And studies need to be done on innovative ways to help "flood-proof" structures. Also, this seems to be a perfect use of eminent domain, in governmental acquisition of the land under white oak bayou waters, so the banks can be widened.
									Mail	Yard Sign/Other: Nextdoor.com	Comment Form	I like that the study addresses what is in our (Jersey Village's) control. However I am convinced about what is not in our control and that strong recommendations to other government agencies and notified to participate. Example would be Senate Avenue bridge which I believe belongs to Harris County. The same widening of the abutment needs to be considered to improve flow from added development of the JV expansion area southwest up 290 and the additional water from 290 expansion itself. I would like to see the impact of the 290 additional flow acknowledged in the study. Additionally it needs to be acknowledged that a multi-day event like 2001 Allison would result in 100-500 homes flooded to garner support from the residents that say 200 homes are only 10%. We need buy in from all previous flood victims.
										Website/Yard Sign	Comment Form	It would have been good to know specifics about the meeting, i.e. video and consultant presentation. Our home flooded in 2001 and 2016 both times flood gauge +99". Do what Houston is doing at Braes Bayou!
									Mail/Other: Text [REDACTED]	Yard Sign	Comment Form	The water recedes quickly, there should be a way to keep it in the bayou.

Jersey Village Long-term Flood Recovery Plan Phase 2 Comment Database

First Name	Last Name	Public Official? If yes, position	Mailing Address	City	State	Zip Code	Email Address	Affiliation	Preferred Method for Receiving Project Info	Source of Learning About the Meeting	Comment Source	Comments
									Email	Email/Website/Yard Sign	Comment Form	I am attaching my comments to this form and want answers to the questions and comments I have asked at the 03/23/2017 Jersey Village Long Term Meeting. Please see the letter in Appendix F for additional comments.
									Email	Email	Comment Form	Good to address additional retention in Jersey Village worst flood areas... but, we are still concerned about the upstream and downstream back up (i.e. Both ends bottle neck to white oak which fills quickly) and threatens homes along white oak banks and ultimately floods surrounding sections of Jersey Village, as well. We are concerned about putting a band-aid on some parts without addressing long term which seems to need full cooperation from Harris County Flood Control District. We would really like to hear about upstream and downstream planning.
									Mail	Yard Sign	Comment Form	ONE YEAR NO ACTION. We need help. It may flood our city before plan is started. Please start something soon, anything that will help. I live in the Wyndham Village section and water came into my home in the last flood only minor but I am scared. Please see the comment form available in Appendix F for additional comments.
									Email		Comment Form	A list of the 100 structures within the 100-year flood plain would be helpful.
									Email	Email	Comment Form	After the 2nd flooding 10-yr. project by Army Corps of Eng. provided work to lift our homes out of 100-yr. floodplain. After the new project will our homes be lifted out of the 100-year flood plain?

Jersey Village Long-term Flood Recovery Plan Phase 2 Comment Database

First Name	Last Name	Public Official? If yes, position	Mailing Address	City	State	Zip Code	Email Address	Affiliation	Preferred Method for Receiving Project Info	Source of Learning About the Meeting	Comment Source	Comments
											Email	<p>Request for flood information: All, I have a couple of requests for information before I submit my post-meeting comments to Crouch. You undoubtedly have copies, or access to, a couple of reports that would really help me and others to fill in some blanks.</p> <p>1. Drainage Impact Study for the Transit-Oriented Development area. The "Long-term Flood Recovery Plan," from the 3-23-17 public meeting, quoted a "Drainage Impact Study" for the "Proposed Transit-oriented Development south of 290."</p> <p>2. Upstream/downstream impact studies, and any other studies, for the Elwood weir on south channel E127-00-00</p> <p>We all agreed at the meeting that there must have been studies completed for the Elwood weir. Given that it was one of the few major projects in Jersey Village, and the most recent, I am sure everyone would be interested.</p> <p>Thank you in advance for any information you can provide.</p>
											Email	<p>Wall St. channel today 3-29-17.</p> <p>Please see the email available in Appendix F.</p>
											Email	<p>Photo documentation offer: The forecast for Sunday calls for heavy rains (1-3") following scattered showers on Saturday. We have several people from the flood group going out to take pictures for documentation. Do you (Dannenbaum and Crouch) have any requests for photographic documentation? Do you have areas or specific spots where flooding photographs would help with your project?</p>

Jersey Village Long-term Flood Recovery Plan Phase 2 Comment Database

First Name	Last Name	Public Official? If yes, position	Mailing Address	City	State	Zip Code	Email Address	Affiliation	Preferred Method for Receiving Project Info	Source of Learning About the Meeting	Comment Source	Comments
											Email	<p>2nd request for flood information: All, Please find attached my original request dated 3-27-17 for access to two public reports that would certainly impact your conclusions and recommendations concerning flooding in the Jersey Village area. Here is my second request for those reports as follows:</p> <ol style="list-style-type: none"> 1. Drainage Impact Study for the Transit-oriented Development area 2. Upstream/downstream impact studies, and any other studies, for the Elwood weir on south channel E127-00-00. <p>As I have received no positive or negative response from any of you regarding my request, I will take this opportunity to add a third item to my request:</p> <ol style="list-style-type: none"> 3. Any studies conducted by TxDOT or Harris Co. that would have addressed increased runoff to the south channel E127-00-00 due to Hwy 290 expansion <p>Again, please note that the "Drainage Impact Study for the Transit-oriented Development area" was quoted in the "Long-term Flood Recovery Plan" from the 3-23-17 public meeting. Standard engineering practice would be to make references available. I feel certain that all three items must have been part of any comprehensive flood study; therefore, you must have them available. Will you please provide these 3 items? Will someone please respond yes or no to this second request? If no, please explain why.</p>
									Email	Yard Sign	Email	Please the scanned comment form and letter in Appendix F.

Jersey Village Long-term Flood Recovery Plan Phase 2 Comment Database

First Name	Last Name	Public Official? If yes, position	Mailing Address	City	State	Zip Code	Email Address	Affiliation	Preferred Method for Receiving Project Info	Source of Learning About the Meeting	Comment Source	Comments
									Website/Email		Email	<p>With surface modifications around certain peripheries of the course particularly along the eastern side of the property will achieve the desired water mitigation northward towards the JV by-pass channel. This work process would involve some out-of-play re-contouring, additional dirt, no fairway disturbance and would include several natural looking grass covered "drain ways" not ditches, trenches or flood ways. This action would result in gravity doing the water removal work. The key attribute could be the actual elevation of the "golf course" discharge pipe into the channel or associated retention pond. The higher the discharge elevation by better reducing potential water flow back-up from the channel or retention pond.</p> <p>Significant Benefits to the JV Channel Approach</p> <p>1) Using JV by-pass prevents all golf course water from ever moving through JV! The suggested concept would first require an elevation study. The surface re-contouring approach/channel suggestion not only reduces the build-up and maintenance the berms (in perpetuity due to weathering & land subsidence) but also eliminates standing water in/on the golf course.</p> <p>2) Retaining water on the golf course will most likely increase the post water clean-up costs on the course.</p> <p>3) Golf course operations along the associated revenue would "come back" sooner because water is not being "retained" on the course.</p>
									Email	Notice in Mail	Comment Form	Good presentation, Thank you! 2001: 18-20" , 2002: 3-4" , 2016: 14-16"
									Email		Letter	Please see the letter available in Appendix F.
									Email	Email/Notice in Mail/Yard Sign	Email	Please see the emailed letter in Appendix F.
											Comment Form	<p>Suggestion: 1. The fields down by the pool could be lowered to create more "storage" space downstream from the areas that flood.</p> <p>2. Raise the top of the WOB banks, this could push the water further downstream to the lowered ball fields.</p>
									Website	Other: JV Newsletter	Comment Form	Does the study include looking at the point where White Oak Bayou (WOB) exits JV on the east as it goes under Beltway 8 by Clark Henry Park? It never flooded in JV before the Beltway was completed in the early 1990s; or that has been reported.

Jersey Village Long-term Flood Recovery Plan Phase 2 Comment Database

First Name	Last Name	Public Official? If yes, position	Mailing Address	City	State	Zip Code	Email Address	Affiliation	Preferred Method for Receiving Project Info	Source of Learning About the Meeting	Comment Source	Comments
									Mail/Email	Email/Yard Sign	Comment Form	<p>1. Can the city and flood plan committee engineers please communicate with the Harris County Flood Control District and get them to mow White Oak Bayou in Jersey Village more than just the current four times per year? Mowing it eight times a year with more mowing during summer and flooding months could prevent flooding since a regularly mowed bayou would flow at higher velocity and volume.</p> <p>2. Also, what has the contracted engineering firm done to prevent flooding in Jersey Village since they received the \$650,000 to fix the problem?</p>
									Mail	Yard Sign	Comment Form	Very interested to know what will be done to reduce subsidence.
									Mail	Yard Sign	Comment Form	My house has never been flooded. If it needs to be raised that would be fine with me.
									Website/Mail	Notice in Mail/Yard sign	Comment Form	<p>Regarding non-structural methods which I understand will not be the primary method considered, raising my house is not in the offing for me unless it is greatly subsidized.</p> <p>1. How will bridge improvements help?</p> <p>2. What street improvements on Wall St. and why are they not being considered for Jersey Drive?</p> <p>3. What are conveyance improvements?</p>
									Email/ Other: Call [REDACTED]	Other: Involvement	Email	<p>To Al Flores and others:</p> <p>As indicated on the Comment Form page, I have attached to this email my comments and questions with regard to the Long-term Flood Recovery Plan for Jersey Village. In addition, I have included a memo referenced in my comments.</p> <p>I am requesting a meeting with the folks at Dannenbaum to discuss these items.</p> <p>I appreciate your work on this effort, as it is extremely important to the residents of Jersey Village and look forward to hearing back from you. Feel free to contact me via email or my cell phone.</p> <p>Best regards..... and hope you all have a Happy Easter!</p> <p>Please see additional comments available in Appendix F.</p>

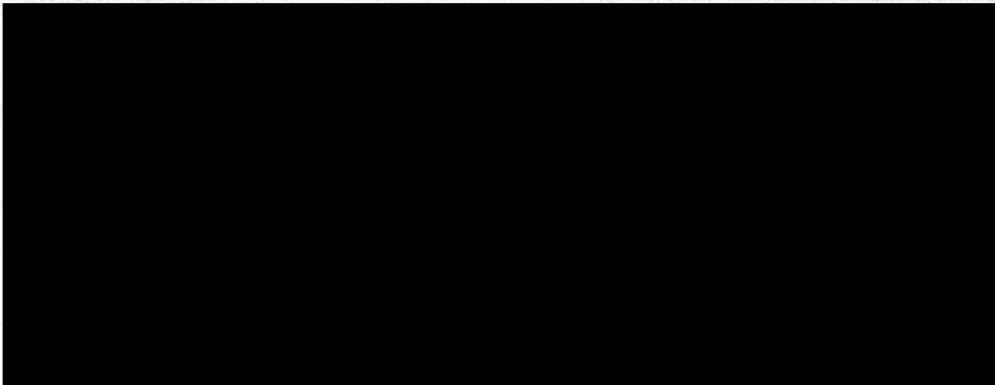
Appendix F
Submitted Comment Documents



Long-term Flood Recovery Plan

Comment Form

ARE YOU A PUBLIC OFFICIAL? NO YES If yes, position: _____



How did you learn about this Public Meeting?

- Email
- Newspaper
- Notice in Mail
- Website
- Yard Sign
- Other (Please explain) _____

How would you prefer to receive information about this project? (Please check one)

- Website
- Mail
- Email
- Newspaper

Other (Please explain) _____

COMMENTS (Please make additional comments on the back, if needed.)

I am attaching my comments to this form and want answers to the questions and comments I have asked at the 03/23/2017 Jersey Village long term meeting.

This comment form may be turned in at the public meeting, mailed to the address on the back of this page, or emailed to JVfloodRecovery@crouchenvironmental.com. Please Submit comments by April 21, 2017. Thank you for your participation. For more information about the City of Jersey Village Long-term Flood Recovery Plan, please visit www.jvfloodrecovery.com.

[REDACTED], past city council member of the city of Jersey Village, Texas citizen's comments and questions for the 03/23/2017 city of Jersey Village long-term flood recovery plan phase 2 public meeting. Please make my comments and documents given to the city secretary and Dannenbaum Engineering a permanent record of this meeting.

I'm here tonight to express my concerns about the results and findings that are incorporated into the phase 2 handout which I believe many other property owners share. I do not believe that the information saying that future development of the city's extraterritorial jurisdiction on the south side of US290 and the ongoing major expansion of US290 are not going to increase the flooding to already existing homes and properties in Jersey Village. Here are some of the questions and comments I would like answered.

How many more thousands of gallons of storm water are going to be directed into the tributaries and conveyance channels that run along the North and South sides of the Jersey Meadows golf course during a 10, 50 and 100 year flood events from the near future completion of the major expansion of US290?

What factual/guaranteed requirements are in force by the city government to not allow any additional storm water runoff to come through the city that will flood already existing homes and properties due to the development of the estimated 704 acres of the city's extraterritorial jurisdiction (ETJ) on the south side of US290?

The citizens of Jersey Village Texas should not allow their city government to scam them into the belief that they will do the truly needed and required digging out and removal of soil on the Jersey Meadows golf course land area to provide real flood relief to the home owners that live in Jersey Village. The golf course needs to be repurposed into a very effective flood water detention area that can also be designed into low maintenance park space for all the city residents to enjoy. All of the Jersey Village citizens are paying for the golf course. It does not come close to paying for its existence if all actual costs are included in its operation. From past history I believe the city government will most likely do some minor, minimally effective changes and then say we have to keep the golf course because it is now, per them, a dual use area and you, the taxpayers, will be hung with the debt again. City documents attached to show financials.

The engineering study is proposing digging out the soil underneath the bridges located at Tahoe St, Lakeview St and Equador St to allow more storm water to pass through. I think this is a good idea but I am concerned that this is going to cause more flooding to the properties and homes east of the Lakeview/Elwood St bridge. There is nowhere for the additional water to go because there is only one exit point on White Oak Bayou at the TXDOT beltway 8 and HCTRA dam. The bridge openings at the previously mentioned dam are too small to allow the volume of flood water to leave the east side Jersey Village area in a timely manner.

Additional questions

How much larger has the flood plain grown in size in the incorporated land area of the city of Jersey Village Texas in the last 30 years?

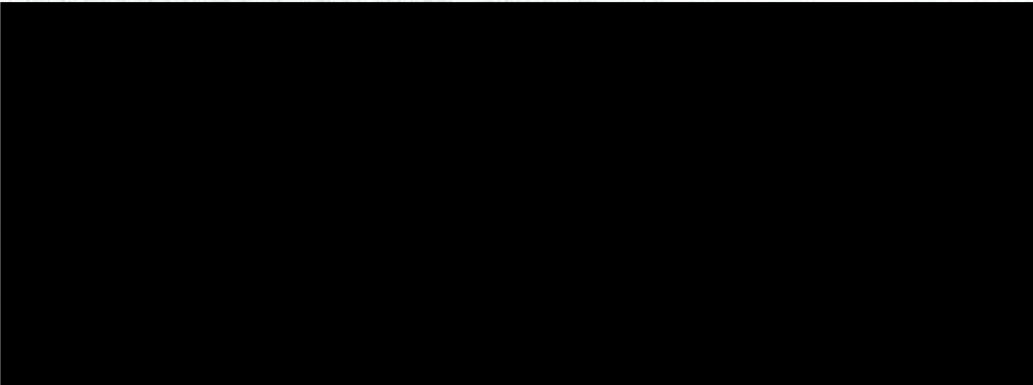
How many additional homes/properties that were in existence 30 years ago that weren't in the flood zone at that time are now in the current Harris County flood zone mapping in the incorporated city of Jersey Village Texas?



Long-term Flood Recovery Plan

Comment Form

ARE YOU A PUBLIC OFFICIAL? NO YES If yes, position: _____



How did you learn about this Public Meeting?

- Email
- Newspaper
- Notice in Mail
- Website
- Yard Sign
- Other (Please explain) _____

How would you prefer to receive information about this project? (Please check one)

- Website
- Mail
- Email
- Newspaper

Other (Please explain) _____

one year NO ACTION

COMMENTS (Please make additional comments on the back, if needed.)

We need help now if may flood our city before plan is started & please start something soon any thing that will help

I live in the Wyndam Village section and water came into my home in the last flood only minor but I am scared. if you see the web hole by my AC many other in my section must have been close to flood in My son Tran Vu home on Capri with 6' of water we are afraid please help Not later Now!

~~We need to be ready before Beltway 8~~

This comment form may be turned in at the public meeting, mailed to the address on the back of this page, or emailed to JVfloodRecovery@crouchenvironmental.com. Please Submit comments by April 21, 2017. Thank you for your participation. For more information about the City of Jersey Village Long-term Flood Recovery Plan, please visit www.jvfloodrecovery.com.

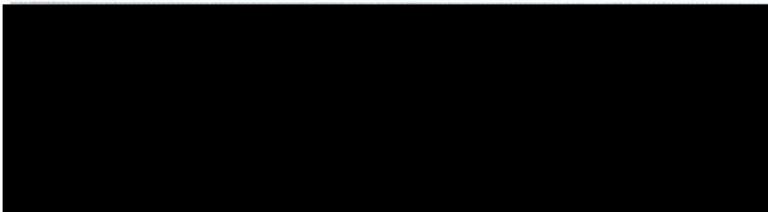
I have lived in JV for 37 years can't live here! Please help so we get out!

All of your concerns are valid!!!

1. I didn't see anything about comparing the 2014 FEMA Flood Map to actual flooded homes. That needs to be in the study!
2. I will ask for the data on the 240-year event tonight; none was given. I think that conclusion has serious problems! The news media pushed the storm just north of the 18 SM WOB drainage area above JV as a 1,000 year event. The Tax Day Flood on my rain gauge was 9.84 inches. The 18 SM area above JV had more rain but I can't find my data; I think it was 13-14 inches. Going to the HCFCD website for the storm elevations on the WOB gauge 550 at Lakeview for the 4-floods.
<https://www.harriscountyfws.org/GageDetail/Index/550>
Storm elevations; 10 yr/101.30, 50 yr/102.20, 100 yr/103.00, 500 yr/104.00. 1998/Frances/99.97, 2001/Allison/101.97, 2002/TS/99.87, 2016/TS/101.30. Note all were around a 10 year event in JV. Allison damaged over 500 homes and it was slightly more than a 10 yr storm. The only HCFCD gauge above Jones Road gauge 555 is 1160; Cypress Ck at Grant; 1170 also.
<https://www.harriscountyfws.org/GageDetail/Index/1160?From=8/15/2016%201:06:36%20P>
- M Storm elevations; 10 yr/122.30, 50 yr/124.30, 100 yr/125.20, 500 yr/127.60. 1998/Frances/124.30, 2001/Allison/123.80, 2002/TS/???, 2016/TS/127.40. Note all were around a 50 year event except for 2016.
3. Page 3 talks about more detention facilities but with no data. How many acre-feet of detention is needed in the 18 SM area above JV to prevent another flood?
How can those detention facilities be built?
See note #8!
4. Page 3 also talks about bridge improvements. I am sure the cost of those improvements was one reason the WOB channel through JV was not improved.
See note #8!
5. Page 3 WOB channel improvements. The drawings on page 4 have problems as I am sure they are trying to stay within the existing ROW.
To obtain that 45 degree slope will require concrete lining and that cot will be excessive. The JV Gov could facilitate getting the extra ROW from the citizens that own property to the center of the WOB.
See note #8!
6. Page 3 also talks about street drainage. The city needs to continue rebuilding the streets.

Spending money on replacing Elwood instead of Wall Street was a typical BAD DECISION by the JV Gov!!!

7. Work needed to reduce the flood risk in JV:
 1. Improve the main channel of the WOB through JV.
 2. Add more detention ponds above JV in the 18 SM area
 3. Reduce the 290 water coming into the north and south tributaries.
 4. Replace the storm drains and streets that are flooding homes; Wall street, others.
 8. The JV Gov needs to develop a partnership with the HCFCF, FEMA, USACE and others. That partnership would pay for the improvements needed to reduce the flood risk in JV.
 9. Others
- Jim



Here is what concerns me:

Something just doesn't smell right with this so-called flood study. In looking at the revised (2014) FEMA flood map, my home and many others are clearly in the 100-year floodplain, and yet we did not flood. Yet, Dannenbaum has "determined" the Tax day flood was a 240-year event. Water did come to within 9 inches of my slab elevation. If this was truly a 240-year event, I should have had at least a foot or two of water in my home.

What data did they use to validate their 240 year estimate? There are only 2 flood/rainfall gauges upstream of JV Jones Rd, and Lakeview. What about the 18 sq. miles above JV---how was that estimated with no other rain gauges?

Even more concerning is not just how Dannenbaum characterizes the Tax Day flood as a 240 year event on page 3, second bullet point---but the following statement in the write-up **"This is important to note because flood damage reduction measures implemented by the federal government and Flood Control District are designed to provide a 100-year level of protection."**

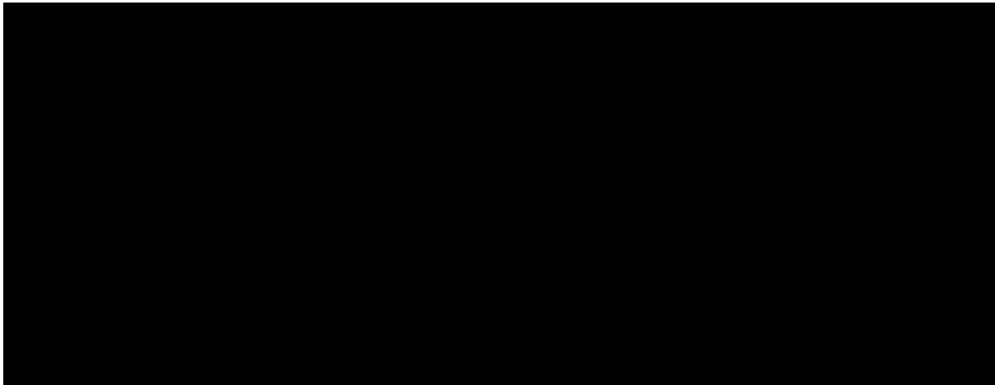
What are they trying to imply? That the current design parameters through JV, including the bypass, meet the criteria of protection from a 100-year event, ergo if this was a 100 year flood, we would not have flooded? Or are they implying that, the federal government will spend no more money on White Oak Bayou through JV, now that a professional engineering firm has calculated we supposedly had a 240 year event, so that we will have to self finance ?

Why then, if this was a 240-year event and my house did not flood, why am I paying flood insurance rates for being within the 100-year floodplain?

I'm also very concerned that Dannenbaum has omitted any reference to the bypass that runs out to the beltway. I, and others observed the extremely slow water movement in the bypass as compared to the rapid water movement into our White Oak bayou during the major rainfall event just after the tax day flood.

I think it was Greg that found the bypass had only 12" of slope towards the beltway over the one-mile stretch from White Oak to the beltway---absolutely insufficient to move large volumes of water. We later learned the channel actually slopes slightly **in the opposite direction** towards the entry point of White Oak bayou. From a map view, **the size of the bypass is roughly equivalent to the size of the White Oak bayou where it enters JV**. Why should'nt the bypass transport almost 90% of the water entering JV from White Oak bayou?? HCFCD told us that the bypass moves 38% of the water from White Oak Bayou. Why so little? If it is poor slope, it could likely be fixed. If it's the poor design of the intersection of White Oak with the by pass, that could be fixed. Why was the control structure originally designed to divert water from White Oak bayou into the bypass at that intersection removed from the original plans of HCFCD?

Why was there no mention bypass modifications?



<JV Long Term Flood Recovery Plan.pdf>



Public Meeting - March 23, 2017

2 messages



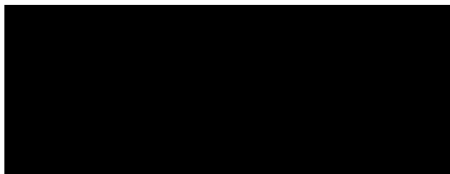
I live at [REDACTED] (older townhouses that back up to the golf course). I own a second townhouse ([REDACTED]) within the group of seven. Questions from subject meeting/handouts:

- 1) Reference was made to FLOOD INSURANCE RATE MAPS -- Would you provide the web address for subject maps? Somewhere I got the impression that the maps are under update and it might be two years before the update would be available. Seems that the maps might be out of date before they are available.
- 2) Rapid assessment was to "evaluate how many structures are currently deep in the floodplain and how many of those WILL CONTINUE TO BE in the floodplain". Is there a list of these structures that I may review to see how I may or may not be affected.
- 3) Under the topic of "Structural" flood damage reduction measures, one bullet item was Additional Stormwater Detention Facilities including "modification of the Jersey Meadows Golf Course. Where can I find more detail regarding what "modifications" have been proposed? Channel widening would be a much better option than Detention.

I'm one of the lucky ones -- so far my houses have not flooded. However, some of the previous recommendations have concerned me. Some of these recommendations (a berm as an example) seem to be moving the flooding problem from one location to another -- not SOLVING the problem. I am of the opinion that a berm is the last thing that would help as half the storm rain water would be captured to the golf course side, while the other half of the storm rain water would be diverted into my yards/houses. I realize I'm repeating myself, but MOVING the problem is not SOLVING the problem.

Thanks for your time.

Sincerely



Mon, Apr 10, 2017 at 11:07 PM



Wall St channel today 3-29-17

2 messages

Photo series from Rio Grande looking west up the Wall St channel.



The control structure is 100 yds west of Rio Grande

Before the storm @ 7:30



Just after the 1st wave @ 11 am



Just after the 2nd wave @ 1 pm



1.5 inches of rain the channel is about at capacity.

Think about it. This water is not coming from the golf course. Not much of this water is coming from across 290 (yet). This is the rapid, furious, instantaneous drainage from the ever expanding 290 development. These are Allison levels for this end of the channel.

We are almost at the point where the storm drains start pumping water from the channel onto an already mostly flooded Wall St. 1.5 inches of rain. A tropical storm will kill us.

City of Jersey Village Long-term Flood Recovery Project
<ivfloodrecovery@crouchenvironmental.com>

Mon, Apr 10, 2017 at 6:09
PM

Thank you for submitting your comment. All comments submitted by the comment deadline on April 21, 2017, by 11:59 p.m. will be included in the administrative record and considered in the Phase 3 analysis. Comments received after April 21 will be included in the administrative record but may not be included in the phase 3 analysis.

Thank you for your time and for sharing valuable information that is critical to the success of this study with us!

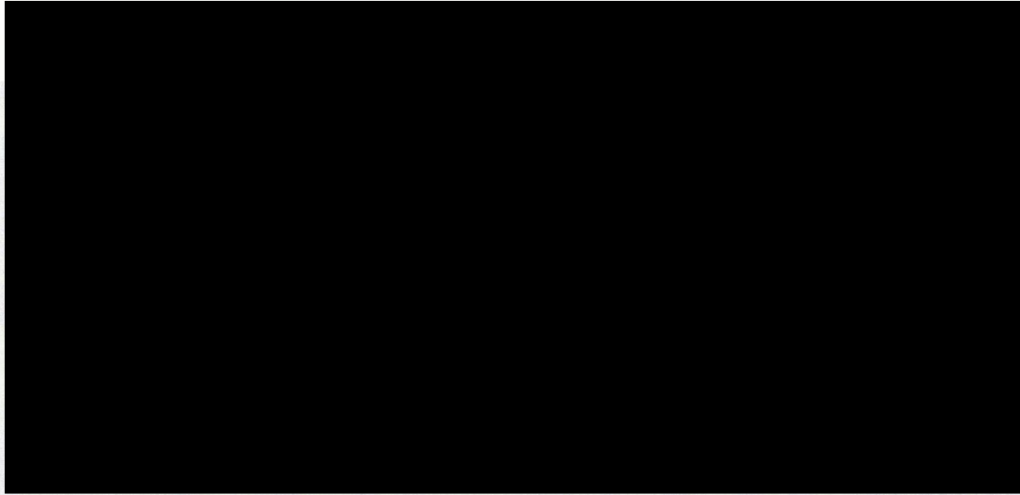
Sincerely,
The Jersey Village Long-term Flood Recovery Plan Project Team

[Quoted text hidden]



Long-term Flood Recovery Plan

Comment Form



How did you learn about this Public Meeting?

- Email
- Newspaper
- Notice in Mail
- Website
- Yard Sign
- Other (Please explain)

How would you prefer to receive information about this project? (Please check one)

- Website
- Mail
- Email
- Newspaper

Other (Please explain) _____

COMMENTS *(Please make additional comments on the back, if needed.)*

Attached

This comment form may be turned in at the public meeting, mailed to the address on the back of this page, or emailed to JVfloodRecovery@crouchenvironmental.com. Please Submit comments by April 21, 2017. Thank you for your participation. For more information about the City of Jersey Village Long-term Flood Recovery Plan, please visit www.jvfloodrecovery.com.

Questions and comments
from The City of Jersey Village Long-Term Recovery Plan (LTRP)

My comments primarily reflect the fact that I live on the south channel E127-00-00, at the west end of Wall St., and about 0.50 miles from HWY290. These comments are not intended to diminish the significance of the systemic WOB-related flooding problems; however, the south channel E127-00-00 represents a unique opportunity for government, academia, and professional firms to study the impact of irresponsible development, mismanagement, and ineptitude.

South Channel E127-00-00

E127-00-00 is 99% exclusively contained within a single watershed/government jurisdiction. We cannot blame water from the Cypress or the west. What happens to the south channel is completely the responsibility of Jersey Village.

Prior to the Tax-Day flood, that little channel never overflowed its banks in the west. However, since the construction of the Elwood weir (dam), and the vast expansion of HWY290, flooding conditions have changed dramatically and without historic precipitation changes.

1. The Elwood weir, designed to restrict flow from E127-00-00, dramatically changed channel conditions even prior to the Tax-Day flood.
2. Conditions continued to worsen with the expansion of HWY290 (and expansion continues today). Even casual observation and submitted photos confirm the above, but there are no channel-monitoring stations, despite the flooding, because E127-00-00 is too small.
3. As documented in previous photos that I have already sent to Crouch, Dannenbaum, and JV:
 - a. That little channel, only a mile from its "headwaters", cannot handle all the additional runoff from HWY290, even before it begins to respond to the questionable hydrologic modifications at the Elwood weir.
 - b. 290-related construction accelerates the process of that channel silting up and it is no longer at design capacity (see below).
 - c. The channel is already at maximum capacity with ~1.5-in of rain in a few hours and,
 - i. That water is predominantly coming from HWY290.
 - ii. Areas west of 290 retain much of the water west of 290 for several days after a storm and please note this point for future TOD development comments below.
 - d. Regardless of the FEMA and Dannenbaum maps, the east side of the golf course floods and continuously sends sheets of water onto Rio Grande, then Wall St., then into E127-00-00. Just because no one's couch got wet doesn't mean the golf course wasn't wet.
 - e. Any elevation for TOD development or any deepening or expansion of those drainage ditches west of HWY290 will destroy homes and lives east of 290.

Historical Changes in Channels and Detention Ponds

The 290 construction projects are dumping many tons of soil into the drainage system. That is a fact that is easily observed on any given day. The Wall St. channel has been muddied for many months even while the other channels run clear. The coarser sediments are settling out in the channel. Based on simple hydrologic principles, most of that sediment will not make it past the Elwood weir. E127-00-00 can no longer operate at design capacity. Other channels and detention ponds silt up. Rates will vary from one area to another, but it must be happening – always does, always will.

Slumps and slides along the channel margins are common! The channel sides are caving in. If prevention was the goal of the Elwood weir, it was a total failure. None of these channels still have design capacity.

1. Is Dannenbaum looking at, measuring or estimating reductions in channel or detention capacity with time?
2. Are they relying on decades-old, design-capacity HCFCD computer models?
3. Where did Dannenbaum get the existing grade profiles in p4 of the LTRP document?

Other Questions

1. Was there a drainage impact study for the Elwood weir? Can we see it?
2. Was there a drainage impact study for the expansion of 290? Can we see it?
3. Can we see the drainage study that was done for the Transit-Oriented Development Area West of HWY290?
4. Will HCFC be able to review the drainage study for the Transit-Oriented Development Area before any construction?

And, why would the city want to move facilities from the current flood-free areas to flood-prone areas in the TOD?

City of Jersey Village Long-term Flood Recovery Plan Comment Form

I have attended the two public meetings held in Jersey Village on this topic and it seems that an extensive evaluation of various aspects relating to flooding in JV have been taken into account and researched.

The following are some of my thoughts on the direction of this project and proposals. Although I did not live in my current home at the times of earlier flooding in JV, from info from neighbors and former owners and then hearing the evaluation of the levels of rainfall experienced during the TAX DAY flood even in 2016, it would seem that improvements upstream of JV did mitigate of flooding of most houses in our little section, that the water levels reached were somewhat less than during tropical storm Allison.

The notes about modifying the structure of the several bridges that cross the bayou in JV make sense to allow the water to flow more quickly out of JV. I did not get any sense of what sort of studies were or were not carried out on the impact of areas downstream from us and if those flood mitigation measures would be take on whatever extra would be flowing out of the JV city limits.

My thoughts are that while improving drainage of waters falling within the city limits be improved, I would like to see an emphasis on creating additional means of detention of waters coming from various upstream sources before they enter the channel through JV.

I think the golf course is a wonderful natural resource for JV and that it's parklike qualities should be preserved whether as a golf course or a City Park. It would seem that since that the central parts of the golf course appear to have once been drainage-ways, with its natural state a low area and that modifications should be made to divert/ redirect all runoff from the golf course into detention areas either on or surrounding the it. Maybe if it is to be maintained as a golf course that is in need of water resources, whether retention pond areas could be created that might become the main water source for keeping things green.

Channel modifications that are structurally sound should be put on the table for implementation for the channel through the city and that the city needs to be proactive in taking charge of seeing that there is 100% cooperation of all landowners along the channel with fairness to all involved.

Street drainage issues sounds like it could be totally within the jurisdiction of the city and that those streets and drainage systems with improvements need to be at the top of the projects priority list. Street flooding is going to be inevitable when the bayou fills up; however, under normal rain events when the bayou is well within its banks, that needs to be inexcusable. This improvements need to be in alignment with the overall plan for mitigation and control of flood waters.

I think there needs to be some level of ongoing evaluation of any and all improvements made to infrastructure to evaluate the long term effectiveness of the improvement measures. Yes, that is an expense; however, to keep our city a viable one, a proactive stance to becoming aware of potential problems before they create a problem needs to be taken as necessity like fire, police and emergency services-what has all these flood events cost our city and if those monies were put into a proactive program, what could we get?

In regards to upstream detention, on the tributary that runs just south of Wall Street, I see to the west of the bridge on Rio Grande that there seems to be a fair size 'green' space and question if that area could potentially be used as a detention area that could help slow the rate of runoff flowing in the channel behind the homes on Wall Street?

I think that in any sort of new construction or street reconstruction, that the area between the street curb and the sidewalk should have grade requirements that would lend itself to maximize the use of streets as a secondary level of flood control after the primary drainage systems. It would seem like this area would be designated as an easement area? And perhaps there needs to be some sort of requirements that especially front lawns can only be built up so much above what was the original 'natural grade' of the land.

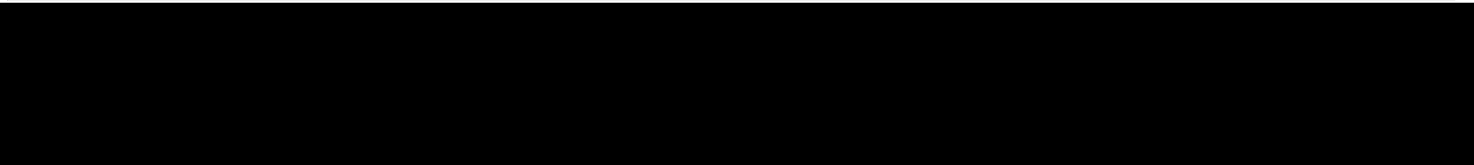
Another consideration that at this point might be difficult for anyone to do much about would be that it seems that Beltway 8 has created a man-made dam along the east side of JV, sort reminds me of a mini-Addicks Dam, except there are building structures right behind it! I wonder how much this has been reviewed with modeling. When there is a great amount of rainfall, there is just no way at times whatever infrastructure is put in place is going to be able to keep houses in the 100 year flood plain just east of the Beltway from flooding because of that dam effect. It appears that many houses in that area which have flooded were built with minimal or close to minimal elevations above the natural grade back when. Their floor elevations are now perhaps 1-2 feet or more below top of the road elevation. I would suspect those are some of the ones that no matter what infrastructure improvements are made will always be prone to flooding until they are elevated or completely rebuilt to current codes. Perhaps houses in these areas should be evaluated as to how far below top of road level the floor elevation is and designate those houses with the greatest amount lower as prioritized to getting whatever sort of assistance might be available to encourage elevation, rebuild or buy out.

Levees might be a consideration in some areas in which run-off needs to be controlled. I would think that would need considerable analysis as to the overall benefit or unwanted side-effects in a given area.



Long-term Flood Recovery Plan_Jersey Village

1 message



To Al Flores and others:

As indicated on the Comment Form page, I have attached to this email my comments and questions with regard to the Long-term Flood Recovery Plan for Jersey Village. In addition, I have included a memo referenced in my comments.

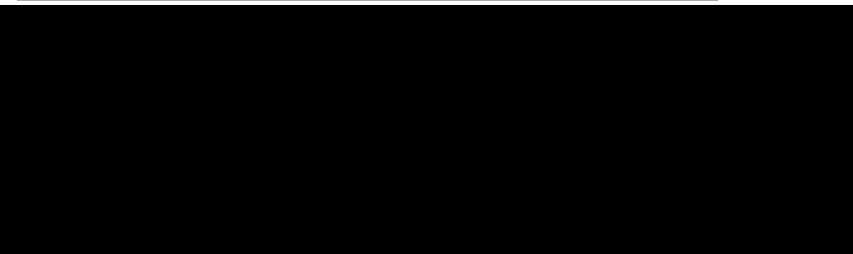
I am requesting a meeting with the folks at Dannenbaum to discuss these items.

I appreciate your work on this effort, as it is extremely important to the residents of Jersey Village and look forward to hearing back from you. Feel free to contact me via email or my cell phone.

Best regards.....and hope you all have a Happy Easter!



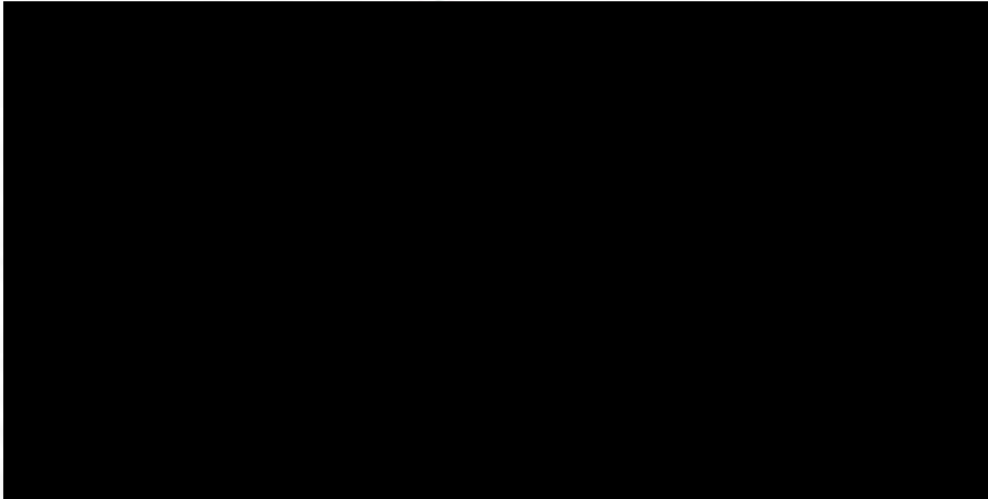
Pursuant to Texas Board of Professional Engineering statutes, any information contained herein represents PRELIMINARY work-in-progress unless otherwise noted.





Long-term Flood Recovery Plan

Comment Form



How did you learn about this Public Meeting?

- Email
- Newspaper
- Notice in Mail
- Website
- Yard Sign
- Other (Please explain)

INVOLVEMENT

How would you prefer to receive information about this project? (Please check one)

- Website
- Mail
- Email
- Newspaper

Other (Please explain) CALL MY CELL: 

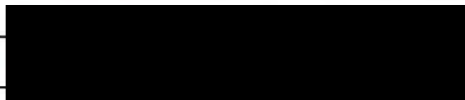
COMMENTS (Please make additional comments on the back, if needed.)

TO: AL FLORES

I HAVE ATTACHED MY LIST OF QUESTIONS/ COMMENTS AND AM REQUESTING A MEETING DURING WHICH WE COULD DISCUSS THESE ITEMS.

THANKS FOR YOUR EFFORTS ON THIS IMPORTANT PROJECT + I LOOK FORWARD TO HEARING FROM YOU.

REGARDS



**COMMENTS AND QUESTIONS FOR DANNENBAUM ENGINEERING et al
FOLLOWING THE MARCH 23, 2017 JERSEY VILLAGE TOWN HALL MEETING**

[REDACTED]

- 1) I would like to discuss Dannenbaum's evaluation/engineering involving the By-Pass.
 - a. What is the capacity of the ByPass and how was this actually determined? (ie how much water was diverted around JV?)
 - b. Does the water in the By Pass move equally fast through the By Pass as it does down the Main WOB?
 - i. How do you know? Was it checked via the model?
 - ii. Efficiency of moving water through the By-Pass as compared to the water moving through the Main WOB channel
 1. If the water doesn't move as quickly through the By Pass as it does in Main Channel, the effectiveness is less than the capacity might indicate. Right? (ie if 3 gals of water move down the Main Channel, but only 1 gal moves down the By-Pass in the same timeframe, there's a problem....Right?)
- 2) What are the results of the survey work that was done and described in the **Scope of Work** (Pg 1 of the KUO proposal) and can I view that material?
 - a. Elevations of natural ground for all measurements taken
 - b. Survey of water marks identified
 - i. What is the result of the elevation measurements at my house?
 1. Slab elevation?
 2. Water mark elevation in front yard that I provided?
 3. Water mark elevation in my back yard that I provided?
 - ii. What were the elevations of the water marks in the By-Pass, and other locations according to marks taken by HCFCD on the day of the Tax Day Flood and subsequent days?
 1. Can you show me these marks/elevations taken by HCFCD?
 2. Will this data be included in your final report?
 - c. Surveying FF Elev. And Cross Sections in the vicinity of historically flooded houses (Pg 1 of the KUO proposal)
 - d. Surveying FF Elev. Ad Cross sections in the vicinity of 100-yr flood plain (Pg 1 of the KUO proposal)
 - e. Plan drawing in AutoCAD Civil 3D with surveyed information, as described in the **Deliverables** (Pg 2 of the KUO proposal)
 - f. How was all this information used in calibrating the model against actual flooding seen during the Tax Day flood?
- 3) With regard to the model:
 - a. Show the history-matched results of the model against actual flooding results.
 - i. ie Items 2 b. i 2 and 2 b. ii above

- b. In time steps, when the Main WOB channel first comes out of bank at the Lakeview Bridge, what's the level in the By Pass?
 - i. Does the WOB in JV come out of bank throughout JV at the same time or different times and places?
 - ii. At this time step (ie flooding at the Lakeview Bridge), what was the level in the Main WOB channel, upstream of the X in the vicinity of Willow Bridge?
- c. In the model for the Tax Day Flood, what was the ultimate water level of WOB (ie maximum flooding) seen at Lakeview Bridge?
- d. In the model for the Tax Day Flood, what was the ultimate (ie maximum)water level seen in the By Pass?
 - i. How do the model results for these flood elevation levels compare to the measured elevations by HCFCD, referenced in Item 2. B. ii?
- 4) What was the original intent of the construction of the By Pass?
 - a. Was it to by-pass water around JV or mainly serve as a linear detention pond?
 - b. What consideration is being given in the DE study to making improvements to the By Pass, IF ANY? (IE WIDEN, DEEPEND, etc)
 - i. This item has to do with the discussion of Item 1 above.
- 5) In your website materials, "Affected Homes vs Tax Day Structural Inventory", what do the red dots signify? (ie what is "Structural Inventory for Tax Day Flood Harris County Parcels"?)
- 6) In your website materials, "Level of Service Map", what does this indicate?
- 7) In your website materials, "Watershed Map", it appears that Cypress Creek Bayou and Greens Bayou can spill over rather easily into WOB.
 - a. Did that actually occur during the 2016 Tax Day Flood?
 - b. Did that occur during your modeling or did you model that to NOT occur by "turning that area off"?
- 8) How much additional upstream Detention Pond capacity is required if:
 - a. No improvements are made in JV?
 - i. What is the respective effect on flooding in JV for that scenario?
 - b. If various projects recommended by DE are made?
 - i. What is the respective effect on flooding in JV for that scenario?
- 9) In order to offset channel improvements made in JV, could the FEMA buyout land in Woodland Trails and Inwood Forest be considered as "offsets" for JV (ie for the "zero-zero" impact), assuming that land could be utilized for detention ponds?
- 10) The RFQ stated the consultant would provide an analysis of the channel ownership with the rights, obligation, and abilities of the City to expand the ROW (RFQ Pg 3).
 - a. Has this, or is this being done?
- 11) The RFQ addressed reconstruction of the northern confluence of WOB and the By Pass (RFQ Pg 5). I take this to mean that the X area will be addressed for making channel improvements.
 - a. Has this, or is this being considered/evaluated?
 - b. Are specific options being considered for the "X"?
 - c. Are specific options being considered for the By Pass?

- 12) What are the model results of having the Elwood Weir?
- What impact does it have on upstream flow?
 - What impact does it have on downstream flow?
 - How does this impact compare if the Elwood Weir was not there?
 - Due to the witnessed new “back-up” of water in the South Tributary since construction of the Elwood Weir, has consideration been given to the addition of a control structure/weir in the South Tributary at Hwy 290, to slow down water flowing into the South Tributary from the expanding Hwy 290 and the Jones Rd area, across 290?
- 13) Can you provide me the Impact Study prepared for the Elwood Weir before it was constructed?
- 14) What is the 1/1/2017 HCAD Market Value / Appraisal value for residential homes for the Land / Improvements in JV in the 100-yr flood plain? (I assume you’re gathering that info for Benefit/ Cost ratios.)
- What is JV’s total Residential Tax Base?
- 15) How many homes are located in the 100-yr flood plain in JV?
- How many total homes are in JV?
- 16) Explain why you state the Tax Day Flood was a 240-year Rainfall event, yet your website presentation map, “Tax Day Floodplain vs 100-yr Floodplain Map” does not extend that much further out than the 100-floodplain contour.
- I have a memo from Jeff Lindner to HCFCF Flood Watch/Partners, dated June 27, 2016, (which I assume you have...but for easy reference, I’ve attached it along with these comments/questions) in which Lindner states, on Pg 7 in the **CHANNELING FLOODING** White Oak Bayou section: “...From Fairbanks North Houston Rd to West Rd, including the Jersey Village area, the water elevations averaged between the 2% (50-yr) and 1% (100 yr).”
 - Explain the difference between the 240-yr Rainfall event you mentioned, and the 50-100 yr “channel flooding event” referenced by Jeff Lindner, which was not mentioned in your presentation. (I also noted that the rainfall when compared for 24 hours is less than a 100-yr event, as shown on the “Rainfall – Duration – Frequency” graph for WOB. Right?)
 - Why was the 50-100 yr “channel flooding event” not mentioned in the DE presentation?
 - I would encourage that information be included in your next report and the final report.
- 17) Do you have other historical Memos similar to the one from Jeff Lindner for floods since and including TS Allison? Can I get copies of those?
- 18) In Lindner’s memo, I have seen the “Peak Rainfall vs Frequency (Exceedance Probability)” graph for WOB. How are the “iso-time lines” established that are used for comparing the rainfall amounts to and which, I assume you utilized as well?
- 19) Based on Lindner’s “Peak Channel Water Surface Elevation Frequencies” map, it would appear that during the Tax Day Flood, JV was an obvious “Pinch Zone” because it shows a lesser event upstream and downstream of JV, but a higher event when the same water flows through JV.
- Comments?

20) In the RFQ Pg 3, *“The consultant will perform a one-day workshop with the City officials and stakeholders to gain a better understanding of the conditions, processes, and programs. ... Stakeholder input is a vital part to establishing an acceptable plan.”* This was to be done in addition to the Town Halls.

- a. Was this workshop held? If so, who attended?
- b. Weren't residents to be included?
- c. RFQ Pg 3 stated that one of the deliverables would be to provide minutes summarizing stakeholder workshops.
 - i. Is this available now? Will these minutes be included in your final report?

Appendix G

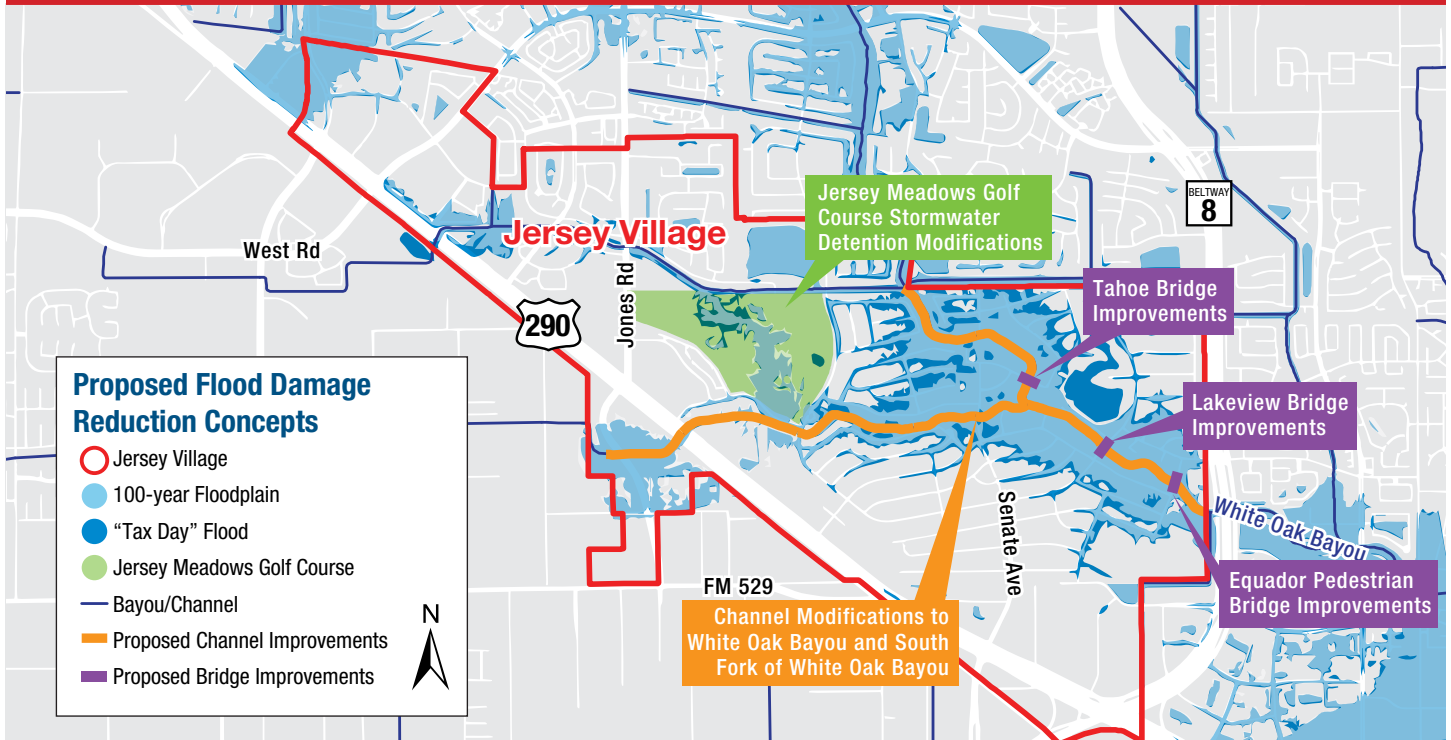
**Meeting Materials: Phase 2 Study Newsletter, Attendee Card,
Comment Form, “How to Participate” Handout, and Informational
Video Script**

Phase 2 Study Newsletter



The City of Jersey Village Long-term Flood Recovery Plan

Phase 2 Public Meeting – March 23, 2017



Planning Study Background

The City of Jersey Village has been repetitively impacted by chronic flooding along White Oak Bayou and its local tributaries. The City is located in the upper portion of the White Oak Bayou watershed, and the bayou flows from the headwaters near U.S. Highway 290 west of Huffmeister Road southeast to its confluence with Buffalo Bayou in downtown Houston.

Major flooding occurred along White Oak Bayou in the City of Jersey Village in 1998, 2001, 2002, and 2016. The most recent flooding occurred after implementation of extensive flood damage reduction efforts by the City and the Harris County Flood Control District to improve stormwater drainage infrastructure in and around Jersey Village.

In the last 20 years, the Flood Control District has implemented more than \$95 million worth of improvements to address channel flooding in the White Oak Bayou watershed, including completion of the Jersey Village diversion channel in 2010, as well as completion of multiple stormwater detention basins upstream of Jersey Village. In the last decade, the City completed over \$25 million of street and drainage reconstruction efforts, with the primary goal of reducing localized neighborhood flooding.

Despite these significant efforts on behalf of the City and the Flood Control District, more than 230 structures within Jersey Village experienced flooding during the most recent “Tax Day” flooding event on April 18, 2016. The City responded to this severe flooding event by initiating the Jersey Village Long-term Flood Recovery Planning Study.

Did you know?

The White Oak Bayou watershed is comprised of more than 111 square miles, with 146 miles of open stream.



The Long-term Flood Recovery Plan Process



About the Flood Recovery Planning Study

The Jersey Village Long-term Flood Recovery Plan is an accelerated flood damage reduction study led by Dannenbaum Engineering Corporation with Crouch Environmental Services, Inc. and Kuo and Associates to address repetitive flooding in the City and the surrounding area. In September 2016, the City contracted Dannenbaum Engineering Corporation to rapidly deliver the Jersey Village Long-term Flood Recovery Plan by Summer 2017.

The goal of the Jersey Village Long-term Flood Recovery Planning Study is to develop a flood damage reduction plan that balances social acceptability with economic, hydraulic, and environmental feasibility. The plan will identify both short-term and long-term flood damage reduction projects that can be designed and implemented as funding allows.

The planning process will be delivered in three phases, and the community will be invited to attend a public meeting during each study phase:

- **Phase 1:** Data Collection and Preliminary Assessment
- **Phase 2:** Technical Analysis and Development of Alternatives
- **Phase 3:** Preferred Alternative Selection and Finalization

Phase 1: Data Collection and Preliminary Assessment

Phase 1 of the study was initiated in fall 2016. During this time, the Study Team conducted a topographic survey of homes, hosted a public scoping meeting in October of 2016, collected data from public agencies, and mailed surveys to about 2,400 properties in Jersey Village requesting input on flooding observed by local residents. Comments submitted to the Study Team provided personal accounts of flooding, alerts regarding local street flooding, concerns about local drainage infrastructure, as well as potential solutions to flooding experienced along the bayou and its tributaries. Sentiments from submitted comments expressed the dire need for alleviation from flooding in the City of Jersey Village area.

Phase 2: Technical Analysis and Development of Alternatives

Now, as the Study Team concludes the major technical study that defines Phase 2, the public's continued participation is encouraged.

Work accomplished during Phase 2 includes a Rapid Assessment structural inventory of buildings in the floodplain. One of the main goals of the rapid assessment was to evaluate how many structures are currently deep in the floodplain and how many of those structures will continue to be deep in the floodplain following completion of all of the projects listed in the federal flood damage reduction study, known as the General Re-evaluation Report (GRR) for White Oak Bayou.

Another goal of the assessment was to screen structures for possible *future* flood damage reduction measures. This analysis relied on the most recent data available, such as home appraisal values and finished floor elevations. Results from these assessments indicated that – even after the implementation of possible flood damage reduction measures in the General Re-evaluation Report – structures remain in the floodplain and would be affected by 25-year, 50-year, 100-year, and 500-year storms.

The Study Team also accomplished a Drainage Impact Study for the Jersey Village Transit-Oriented Development, a 300-acre proposed development south of US 290. This study identified a drainage plan to ensure that sufficient stormwater drainage infrastructure is implemented and there will be no flooding impacts as a result of the proposed Transit-Oriented Development. The Development will not result in an increase in flows downstream of U.S. Highway 290.

Phase 2 also included extensive hydrologic and hydraulic modeling and development of a system of preliminary flood damage reduction concepts for public consideration.

About the “Tax Day” Floods

Given the severity of flooding experienced during the 2016 “Tax Day” flood event, the Study Team was tasked with identifying the sources of flooding in Jersey Village. Actual data from the “Tax Day” flood event were used to inform this analysis, including Harris County Flood Control District rain gauge data.

Several different types of hydrologic and hydraulic models were run, and the results yielded the following:

- Of the 238 structures that experienced flooding during the “Tax Day” flood event, it was identified that at least 210 of these structures were flooded due to bayou flooding. The remaining structures flooded as a result of local street flooding.
- When the flooding associated with the “Tax Day” flood event was compared directly to the flooding associated with a theoretical 100-year event, it was identified that the “Tax Day” event was an extremely atypical rainfall event. The dramatic flooding associated with the “Tax Day” event was equivalent to a 240-year rainfall event, approximately. This is important to note because flood damage reduction measures implemented by the federal government and the Flood Control District are designed to provide a 100-year level of protection.
- Modeling was completed to determine the effectiveness of stormwater drainage infrastructure improvements since 2008. These improvements include the Fallbrook Stormwater Detention Basin, Ranchstone Stormwater Detention Basin, Jersey Village Bypass Channel, Elwood Weir, and Jersey Meadows Detention Basin. When the flows from the “Tax Day” flood event were simulated in a hydraulic model from which all stormwater drainage infrastructure improvements since 2008 were removed, it was determined that at least 363 structures would have experienced bayou flooding during the “Tax Day” flood event compared to the 210 structures that did flood due to bayou flooding. This modeling established that the stormwater drainage infrastructure improvements completed since 2008 had significantly increased the level of protection in Jersey Village.
- Following model calibration and analysis of the “Tax Day” flood event, it was identified that more than 100 structures in Jersey Village are within the 100-year floodplain, susceptible to repetitive flooding.



Flood Damage Reduction Measures under Consideration

To address the findings yielded in Phase 2, the Study Team is considering several proposed flood damage reduction measures, including both nonstructural and structural methods.

“Nonstructural” tools are measures that reduce the risk of damages caused by flood events by removing buildings from the floodplain or floodway. These types of measures include voluntary buyouts, raising buildings, flood proofing, floodplain management and regulation, and flood alerts. While these types of measures will be considered on a case-by-case basis by the Jersey Village Long-term Flood Recovery Plan Team, they will not be the primary methods recommended.

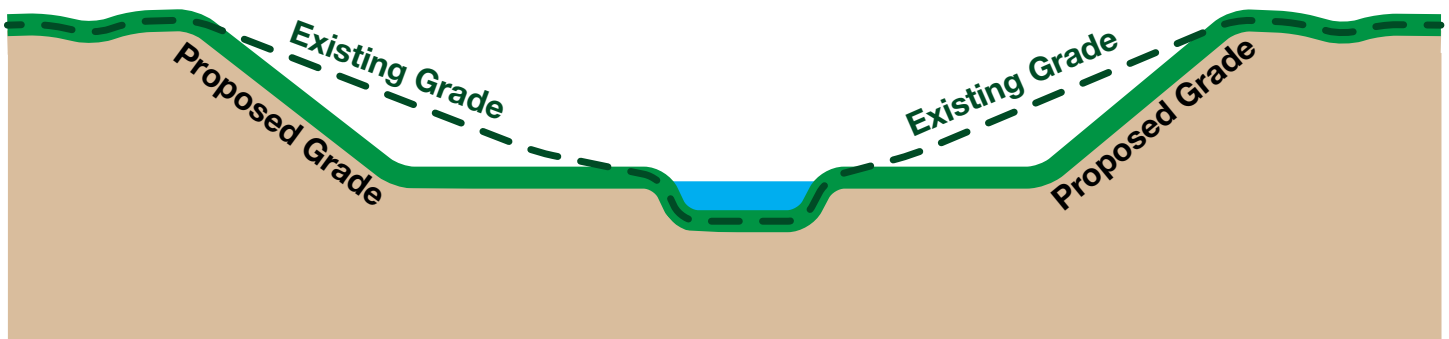
“Structural” flood damage reduction measures, on the other hand, are those that would result in an actual lowering of water surface elevations during an extreme storm event. Examples of these types of tools include conveyance improvements, detention basins, bypass channels, bridge or culvert widening, levees or floodwalls, and new outlets.

The following structural flood damage reduction concepts are proposed to address flooding issues identified through public outreach and hydraulic modeling.

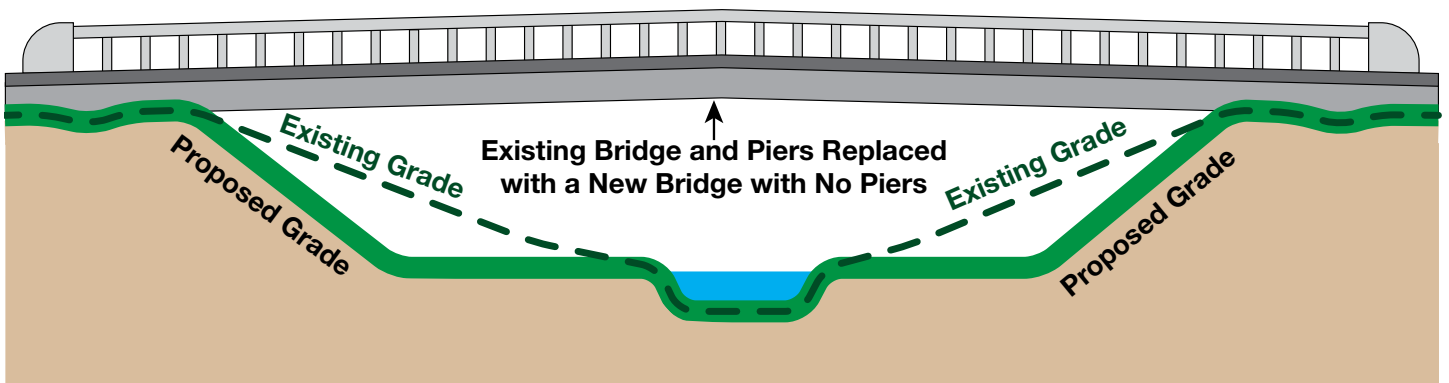
- **Bridge improvements** at Tahoe Bridge, Lakeview Bridge, and the Equador Pedestrian Bridge
- **Channel improvements** along White Oak Bayou Main Channel and the South Fork of White Oak Bayou (Tributary E127-00-00) within the city limits.
- **Additional stormwater detention facilities**, including modification of the Jersey Meadows Golf Course
- **Local street drainage assessments**, notably Wall Street and Capri Drive

Each of these flood damage reduction measures has been modeled and analyzed individually to assess functionality and identify their effects on flooding.

Proposed Channel Improvements



Proposed Bridge Improvements



What's Next?

In Phase 3, the flood damage reduction measures identified in Phase 2 will be combined into various flood damage reduction systems, and their collective performance will be analyzed together. This analysis will provide the benefits to be achieved through implementation of proposed flood damage reduction measures, and – ultimately – identify a feasible plan that will be most advantageous for the City of Jersey Village. The public will be invited to review and consider the results of this analysis at a public meeting this summer.

We look forward to hearing your feedback about the work accomplished so far. By letting us know what *you think* about the study and the flood damage reduction measures being considered, the Study Team will be better equipped to refine these concepts to meet your needs.

Following incorporation of public comments and finalization of the proposed flood damage reduction measures, the Study Team will present a hydraulically, economically, environmentally, and socially feasible Long-term Flood Recovery Plan for consideration by the City of Jersey Village. The recommended plan will include an achievable funding and project implementation strategy, which will allow the City to expedite delivery of flood damage reduction projects for its citizens.

We Need Your Feedback!

Comments will be accepted at the public meeting and throughout the duration of the study. All comments should be submitted or postmarked by **April 21, 2017**, to be considered in Phase 3 of the study. Those who are unable to attend the public meeting may submit written comments via mail or email. You may submit comments to:

Long-term Flood Recovery Plan
402 Teetshorn Street
Houston, Texas 77009

or JVfloodRecovery@crouchenvironmental.com

For more information about this study, please visit
www.jvfloodrecovery.com.

Attendee Card



Long-term Flood Recovery Plan

Attendee Card

Public Meeting
Thursday, March 23, 2017
Jersey Village Civic Center
16327 Lakeview Dr.
Jersey Village, TX 77040

ARE YOU A PUBLIC OFFICIAL? YES NO If yes, position: _____

First and Last Name

Mailing Address

City, State, Zip Code

Email Address

Affiliation

How did you learn about this Public Meeting? (Please check one)

Email Newspaper Notice in Mail Website Yard Sign

Other (Please explain) _____

How would you prefer to receive information about the project? (Please check one)

Website Mail Email Newspaper

Other (Please explain) _____



Long-term Flood Recovery Plan

Attendee Card

Public Meeting
Thursday, March 23, 2017
Jersey Village Civic Center
16327 Lakeview Dr.
Jersey Village, TX 77040

ARE YOU A PUBLIC OFFICIAL? YES NO If yes, position: _____

First and Last Name

Mailing Address

City, State, Zip Code

Email Address

Affiliation

How did you learn about this Public Meeting? (Please check one)

Email Newspaper Notice in Mail Website Yard Sign

Other (Please explain) _____

How would you prefer to receive information about the project? (Please check one)

Website Mail Email Newspaper

Other (Please explain) _____

Comment Form

“How to Participate” Handout



The City of Jersey Village Long-term Flood Recovery Plan

Phase 2 Public Meeting — March 23, 2017

How to Participate in the Public Meeting:



Watch the Study Video

The study video is an 18-minute presentation that introduces the City of Jersey Village Long-term Flood Recovery Plan, the study process, and the flood damage reduction measures for consideration by the Jersey Village community.

After you have watched the video, study team representatives are available to discuss the study with you. Representatives are wearing nametags and looking forward to hearing from you. Please let them know if you have any questions or comments.



Provide Feedback on the Study Region Maps

Please use the pens, markers, and post-it notes to provide the Long-term Flood Recovery Plan team with more information about flooding and inundation in the region.



Use **blue markers** to indicate places within the region that you feel are **susceptible** to flooding.

Provide comments and ideas about the proposed flood reduction measures by recording information on post-it notes and placing these notes on the map.



Complete a Comment Form

The Long-term Flood Recovery Plan team encourages public feedback and participation. Comment forms are available at the registration table and extra comment forms are available for you to take home and share with your neighbors, co-workers, relatives and friends.

Written comments will be accepted at tonight's meeting and by mail and email. Please submit written comments by **April 21, 2017**, to:

Long-term Flood Recovery Plan
402 Teetshorn Street
Houston, Texas 77009

Email: JVfloodRecovery@crouchenvironmental.com
Phase 2 Comment Deadline: **April 21, 2017**

For more information about the study, visit
www.JVfloodRecovery.com.

Informational Video Script



The City of Jersey Village Long-term Flood Recovery Plan

Phase 2 Public Meeting Video Presentation Script March 23, 2017

Welcome to the second public meeting for the City of Jersey Village Long-term Flood Recovery Planning Study.

Tonight's presentation is 18-minutes in length, and it is intended to present you with a study update regarding the progress to date and provide you with information about the various flood damage reduction concepts under consideration by the Study Team.

The Study Team, led by Dannenbaum Engineering Corporation, is comprised of City of Jersey Village officials, as well as civil engineers, hydrologists, and environmental scientists who are working together – in partnership with the local community – to develop a **feasible** Long-term Flood Recovery Plan for Jersey Village.

Study Background

The City of Jersey Village has been repetitively impacted by chronic flooding along White Oak Bayou and its local tributaries. The City is located in the upper portion of the White Oak Bayou watershed, and the bayou flows from the headwaters at FM 1960 southeast to its confluence with Buffalo Bayou in downtown Houston. The White Oak Bayou watershed is comprised of more than 111 square miles, with 146 miles of open stream.

It is important to consider that Harris County itself has more than 2,500 miles of bayous and tributaries flowing throughout its relatively low-lying and flat surface elevations. This means that – regardless of your location within the County – your property may be susceptible to flooding during severe storm events.

To educate property owners in evaluating potential for flood risk, the Federal Emergency Management Agency – or FEMA – develops Flood Insurance Rate Maps. These maps consider historic, meteorologic, hydrologic, and hydraulic data, as well as land use conditions, existing flood damage reduction projects, and development, to identify Special Flood Hazard Areas. Special Flood Hazard Areas are subject to inundation by a flood that has a 1-percent or greater chance of occurring during any given year. This type of flood is commonly referred to as the “100-year flood” or “base flood.”

It's important to note that a 100-year flood is *not* a flood that occurs every 100 years. A 100-year flood has a 26 percent chance of occurring during a 30-year period, the length of many mortgages. The 100-year flood is a regulatory standard used by federal agencies and most states, to administer floodplain management programs, and it is used by the National Flood Insurance Program as the basis for insurance requirements nationwide. Established in 1968, and modified in 1973, this program provides guidelines for development in the 100-year floodplain that are enforced by the local floodplain administrator, which is usually a City or County. The National Flood Insurance Program also provides flood insurance to citizens and entities with structures in the floodplain.

The Harris County Flood Control District was created in 1937 “for domestic, municipal, flood control, irrigation, and other useful purposes.” However, the primary function of the Flood Control District was to partner with the U.S. Army Corps of Engineers for the completion of local flood damage reduction projects. Around 1980, the need for additional flood reduction tools was realized. As a result, mitigation for stormwater drainage impacts has been required for all development occurring in Harris County – including the entire White Oak Bayou Watershed – since the 1980s.

Major flooding occurred along White Oak Bayou in the City of Jersey Village in 1998, 2001, 2002, and 2016. The most recent flooding occurred *after* implementation of extensive flood damage reduction efforts by the City and the Flood Control District to improve stormwater drainage infrastructure in and around Jersey Village.

In the last 20 years, the Flood Control District has implemented more than \$95 million worth of improvements to address channel flooding in the White Oak Bayou watershed, including completion of the Jersey Village diversion channel in 2010, as well as completion of multiple stormwater detention basins upstream of Jersey Village. In the last decade, the City completed over \$25 million of street and drainage reconstruction efforts, with the primary goal of reducing localized neighborhood flooding.

Despite these significant efforts on behalf of the City and the Flood Control District, more than 230 structures within Jersey Village experienced flooding during the most recent “Tax Day” flooding event on April 18, 2016. The City responded to this severe flooding event by initiating the Long-term Flood Recovery Planning Study.

About the Flood Recovery Planning Study

The goal of the Long-term Flood Recovery Planning Study is to develop a flood damage reduction plan that balances social acceptability with economic, hydraulic, and environmental feasibility. The plan will identify both short-term and long-term flood damage reduction projects that can be designed and implemented as funding allows.

The planning study is being delivered in three phases:

- The “Data Collection Phase,” or Phase 1, was initiated in fall 2016. During this time, the Study Team conducted a topographic survey of homes, hosted a public scoping meeting in October of 2016, collected data from public agencies, and mailed surveys to about 2,400 properties in Jersey Village requesting input on flooding observed by local residents. Comments submitted to the Study Team provided personal accounts of flooding, alerts regarding local street flooding, concerns about local drainage infrastructure, as well as potential solutions to flooding experienced along the bayou and its tributaries. Sentiments from submitted comments expressed the dire need for alleviation from flooding in the City of Jersey Village area.
- Now, as the study team concludes the major technical study that defines Phase 2, the public’s continued participation is encouraged.

Work accomplished during Phase 2 includes a Rapid Assessment structural inventory of structures in the floodplain. One of the main goals of the rapid assessment was to evaluate how many structures are currently deep in the floodplain and how many of those structures will continue to be deep in the floodplain following completion of all of the projects listed in the federal flood damage reduction study, known as the General Re-evaluation Report (GRR) for White Oak Bayou.

Another goal of the assessment was to screen structures for possible *future* flood damage reduction measures. This analysis relied on the most recent data available, such as home appraisal values and finished floor elevations. Results from these assessments indicated that – even after the implementation of possible flood damage reduction measures in the General Re-evaluation Report – structures remain in the floodplain and would be affected by 25-year, 50-year, 100-year, and 500-year storms.

The Study Team also accomplished a Drainage Impact Study for the Jersey Village Transit-Oriented Development, a 300-acre proposed development south of US 290. This study identified a drainage plan to ensure that sufficient stormwater drainage infrastructure is implemented to avoid flooding impacts as a result of the proposed Transit-Oriented Development.

Phase 2 also included extensive hydrologic and hydraulic modeling and development of a system of preliminary flood damage reduction concepts for public consideration.

- The study effort will conclude in Phase 3 with completion of a plan that consists of a system of recommended flood damage reduction measures, as well as environmental and financial implementation strategies. The recommended plan will be presented in summer 2017 at the Phase 3 public meeting.

Factors Contributing to Flooding in Jersey Village

The Study Team has been hard at work to rapidly deliver this plan, while considering all the various factors contributing to flooding within the region.

Two types of flooding are being analyzed in this conceptual plan: channel or bayou flooding and localized – or neighborhood street – flooding.

Neighborhood and street drainage systems are typically designed for the normal storm events that are expected to occur frequently, such as an inch or two of rain in an hour. When rainfall exceeds this amount, streets and stormwater drainage systems can become overloaded and cause water to pond along street surfaces. Streets in Jersey Village are designed to flood during extreme rain events. Current design standards try to ensure that the water does not pond deep enough to cause flooding of buildings and that the ponded water eventually cascades toward one of the primary bayous or channels. A storm sewer system can cause street flooding, even if the receiving stream has sufficient capacity. To alleviate the street ponding experienced by residents in Jersey Village normal storm events that are expected to occur frequently, the

inlet and storm sewer capacity could be increased and the impacts mitigated through detention. This localized stormwater drainage infrastructure is under the jurisdiction of the City of Jersey Village, and – as a result – improvements may be made with little coordination with other public entities as long as no adverse impacts are generated.

Channel or bayou flooding occurs when the water level of a channel or bayou rises above the top of its banks and spills into the surrounding land. During extreme rainfall events, full channels can impede stormwater flows from leaving localized drainage infrastructure, thus causing ponding in city streets and neighborhoods.

About the “Tax Day” Floods

Given the severity of flooding experienced during the 2016 “Tax Day” flood event, the study team was tasked with identifying the sources of flooding in Jersey Village. Actual data from the “Tax Day” flood event were used to inform this analysis, including Harris County Flood Control District rain gauge data.

Several different types of hydrologic and hydraulic models were run, and the results yielded the following:

Of the 238 structures that experienced flooding during the “Tax Day” flood event, it was identified that at least 210 of these structures were flooded due to bayou flooding. The remaining structures flooded as a result of local street flooding.

When the flooding associated with the “Tax Day” flood event was compared directly to the flooding associated with a theoretical 100-year event, it was identified that the “Tax Day” event was an extremely *atypical* rainfall event. The dramatic flooding associated with the “Tax Day” event was equivalent to a 240-year rainfall event, approximately. This is important to note because flood damage reduction measures implemented by the federal government and the Flood Control District are designed to provide a 100-year level of protection.

Here, you can see the difference between the 100-year floodplain and the level of flooding experienced during the “Tax Day” flood. In short, the flooding experienced during the “Tax Day” event was so extreme that water levels far surpassed the flood protection measures in place.

Modeling was completed to determine the effectiveness of stormwater drainage infrastructure improvements since 2008. These improvements include the Fallbrook Stormwater Detention Basin, Ranchstone Stormwater Detention Basin, Jersey Village Bypass Channel, Elwood Weir, and Jersey Meadows Detention Basin. When the flows from the “Tax Day” flood event were simulated in a hydraulic model from which all stormwater drainage infrastructure improvements since 2008 were removed, it was determined that at least 363 structures would have experienced bayou flooding in the “Tax Day” flood event compared to the 210 structures that did flood due to bayou flooding. This modeling established that the stormwater drainage infrastructure improvements completed since 2008 had significantly increased the level of protection in Jersey Village.

Proposed Flood Damage Reduction Measures

Following model calibration and analysis of the “Tax Day” flood event, it was identified that more than 100 structures in Jersey Village are within the 100-year floodplain, susceptible to repetitive flooding.

To address this, the Study Team is considering several proposed flood damage reduction measures, including both nonstructural and structural methods.

“Nonstructural” tools are measures that lower the potential for damages caused by flood events or by removing buildings from the floodplain or floodway. These types of measures include voluntary buyouts, raising buildings, flood proofing, floodplain management and regulation, and flood alerts. While these types of measures will be considered on a case-by-case basis by the Long-term Flood Recovery Plan Team, they will not be the primary methods recommended.

“Structural” flood damage reduction measures, on the other hand, are those that would result in an actual lowering of water surface elevations during an extreme storm event. Examples of these types of tools include conveyance improvements, detention basins, bypass channels, bridge or culvert widening, levees or floodwalls, and new outlets.

The Study Team has identified a series of structural flood damage reduction methods. The following concepts are proposed to address flooding issues identified through public outreach and hydraulic modeling.

- First, the Study Team has considered bridge improvements at Tahoe Bridge, Lakeview Bridge, and the Ecuador Pedestrian Bridge.
- Channel improvements along White Oak Bayou and the South Fork of White Oak Bayou (Tributary E127-00-00) are also being considered within the city limits.
- Another proposed structural flood damage reduction measure includes additional stormwater detention facilities, including modification of the Jersey Meadows Golf Course.
- And, finally, local street improvements are being considered, notably at Wall Street and Capri Drive.

Each of these flood damage reduction measures has been modeled and analyzed individually to assess functionality and identify their effects on flooding.

What's Next...

In Phase 3, the flood damage reduction measures identified in Phase 2 will be combined into various flood damage reduction *systems*, and their collective performance will be analyzed together. This analysis will provide the benefits to be achieved through implementation of proposed flood damage reduction measures, and – ultimately – identify a feasible plan that will be most advantageous for the City of Jersey Village. The public will be invited to review and consider the results of this analysis at a public meeting this summer.

We look forward to hearing your feedback about the work accomplished so far. By letting us know what ***you think*** about the study and the flood damage reduction measures being considered, the Study Team will be better equipped to refine these concepts to meet your needs.

Following incorporation of public comments and finalization of the proposed flood damage reduction measures, the Study Team will present a hydraulically, economically, environmentally, and socially feasible Long-term Flood Recovery Plan for consideration by the City of Jersey Village. The recommended plan will include an achievable funding and project implementation strategy, which will allow the City to expedite delivery of flood damage reduction projects for its citizens.

For more information about this study, please visit www.jvfloodrecovery.com.

Comments will be accepted at the public meeting and throughout the duration of the study. All comments should be submitted or postmarked by **April 21, 2017**, to be considered in Phase 3 of the study. Those who are unable to attend the public meeting may submit written comments via mail or email. You may submit comments to:

Long-term Flood Recovery Plan
402 Teetshorn Street
Houston, Texas 77009
or JVfloodRecovery@crouchenvironmental.com.

On behalf of the Study Team, we thank you for your participation and look forward to receiving your feedback about the information presented. Thank you again for your time and consideration.

Appendix H
Informational Displays

Print Displays



City of Jersey Village Long-term Flood Recovery Plan **Welcome!**



The City of Jersey Village
welcomes you to the second
public meeting for the
Jersey Village Long-term
Flood Recovery Plan.

PLEASE FILL OUT AN ATTENDEE CARD

PLEASE TAKE A COMMENT FORM

The Jersey Village Long-term Flood Recovery Planning Study is an accelerated flood damage reduction effort to address repetitive flooding in the City of Jersey Village and the surrounding area.

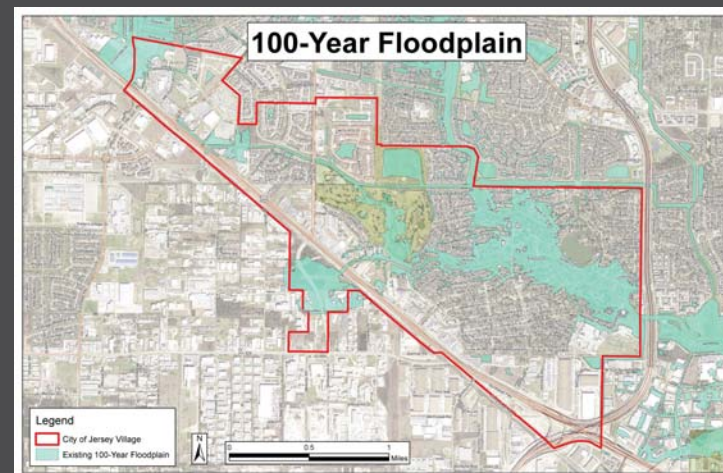
STUDY PURPOSE

The goal of the study is to develop a hydraulically feasible and cost-effective Long-term Flood Recovery Plan that is acceptable to the City of Jersey Village residents and elected city officials.



WHAT IS THE PURPOSE OF THIS PUBLIC MEETING?

- Provide updated information about the study scope and schedule
- Provide information about opportunities for the public to participate in the planning study
- Present structural and nonstructural flood damage reduction concepts for the public to review and provide feedback



HOW TO PARTICIPATE IN TONIGHT'S MEETING:

- Watch the informational project video
- View displays and discuss the study with the many Study Team representatives available tonight
- Provide feedback on the study maps about the proposed flood damage reduction measures
- Provide written feedback by *April 21, 2017*

WE NEED YOUR FEEDBACK!

Throughout the life of the study, the Long-term Flood Recovery Plan Study Team will proactively encourage public feedback and participation.

Public input is a critical part of creating a successful plan that reflects the community's desires and interests.

WHERE CAN I PROVIDE WRITTEN COMMENTS?

Long-term Flood Recovery Plan
402 Teetshorn Street
Houston, Texas 77009

Email: JVfloodRecovery@crouchenvironmental.com

Website: www.JVfloodRecovery.com

Comment Deadline: April 21, 2017

ABOUT THE LONG-TERM FLOOD RECOVERY PLANNING PROCESS

The Jersey Village Long-term Flood Recovery Planning Study is an accelerated flood damage reduction effort to address repetitive flooding in the City of Jersey Village and the surrounding area.

STUDY PURPOSE

The goal of the study is to develop a hydraulically feasible and cost-effective Long-term Flood Recovery Plan that is acceptable to the City of Jersey Village residents and elected city officials.

Despite a total of \$120 million of flood damage reduction efforts on behalf of the City and the Harris County Flood Control District, 238 structures within Jersey Village experienced flooding during the most recent "Tax Day" flooding event on April 18, 2016.

The City responded to this severe flooding event by initiating the Long-term Flood Recovery Planning Study



PROJECT SCHEDULE



THE STUDY PROCESS

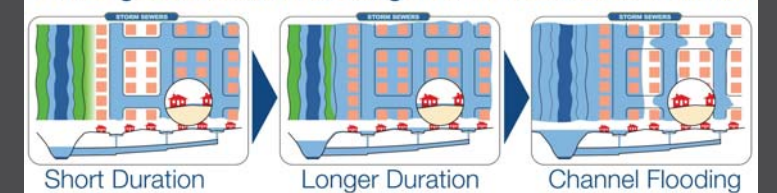
The project is being delivered in three phases with a public meeting for each phase:

- Phase 1: Data Collection and Preliminary Assessment
- Phase 2: Technical Analysis and Development of Alternatives
- Phase 3: Preferred Alternative Selection and Finalization

Two types of flooding are being considered in the Long-term Flood Recovery Planning Process:

- Channel or bayou flooding
- Neighborhood street flooding

Ponding & Sheetflow Flooding From Intense Local Rainfall



WHAT'S NEXT?

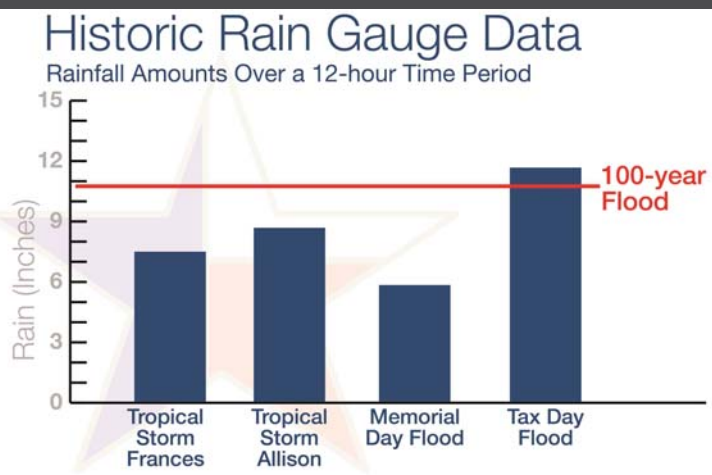
In Phase 3, the flood damage reduction measures identified in Phase 2 will be combined into various flood damage reduction systems, and their collective performance will be analyzed together.

Phase 3 analysis will:

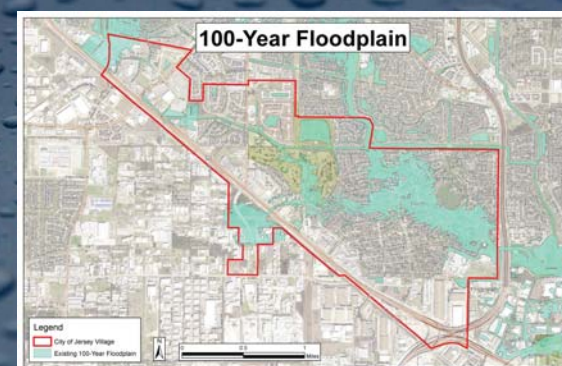
- Provide the benefits to be achieved through implementation of proposed flood damage reduction measures
- Identify a feasible plan that will be most advantageous for the City of Jersey Village

When Delivered in Phase 3, what will the Long-term Flood Recovery Plan include?

- A system of recommended solutions, including:
 - Structural flood damage reduction measures
 - Nonstructural flood damage reduction measures
- Financing plan
- Implementation strategy



In Phase 2, it was identified that more than 100 structures in Jersey Village are within the 100-year floodplain.





PHASE 2 STUDY FINDINGS

The following analyses were completed in Phase 2:

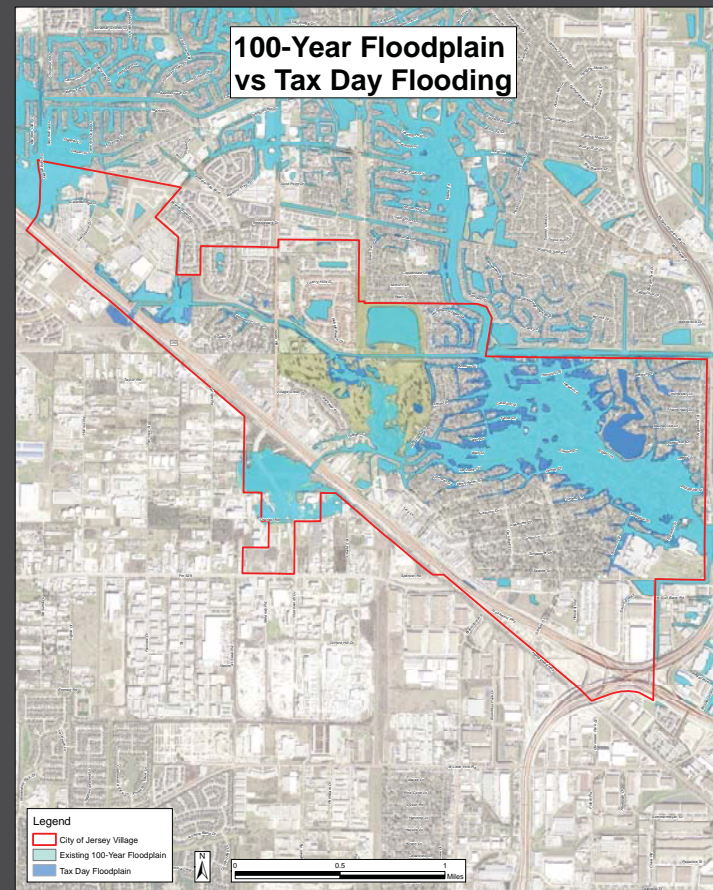
- Rapid Assessment Structural Inventory
- Drainage Impact Study for the Jersey Village Transit-Oriented Development
- Extensive hydrologic and hydraulic modeling
- Development of a system of preliminary flood damage reduction concepts

What is a Rapid Assessment Structural Inventory?

This detailed assessment identified structures that are located deep in the floodplain, even after completion of all flood damage reduction efforts identified by the federal flood damage reduction plan for White Oak Bayou.



US Army Corps of Engineers



Hydrologic and hydraulic modeling yielded the following results:

- Of the 238 structures that experienced flooding during the “Tax Day” flood event, it was identified that at least **210 of these structures were flooded due to bayou flooding**. The remaining structures flooded as a result of local street flooding.
- The dramatic flooding associated with the “Tax Day” event was equivalent to a 240-year rainfall event, approximately.

- When the “Tax Day” floods were simulated with all flood damage reduction measures implemented since 2008 removed from the model, 363 homes in the model were impacted by bayou flooding (compared to the 210 homes that were impacted). This indicates that flood damage reduction measures implemented since 2008 significantly increased the level of protection in Jersey Village.



WHERE CAN I PROVIDE WRITTEN COMMENTS?

Long-term Flood Recovery Plan
402 Teetshorn Street
Houston, Texas 77009

Email: JVfloodRecovery@crouchenvironmental.com

Website: www.JVfloodRecovery.com

Comment Deadline: April 21, 2017

PROJECT SCHEDULE



A 100-year flood is a flood that has a 1-percent or greater chance of occurring during any given year. A 100-year flood event has a 26 percent chance of occurring during a 30-year period, the length of many mortgages.

PROPOSED FLOOD DAMAGE REDUCTION METHODS

The Long-term Flood Recovery Plan will produce a system of strategies that will consist of a variety of structural and nonstructural methods. Using these findings, the study team will recommend a hydraulically feasible and cost-effective solution of flood damage reduction in summer 2017.



The following structural flood damage reduction measures are being evaluated:

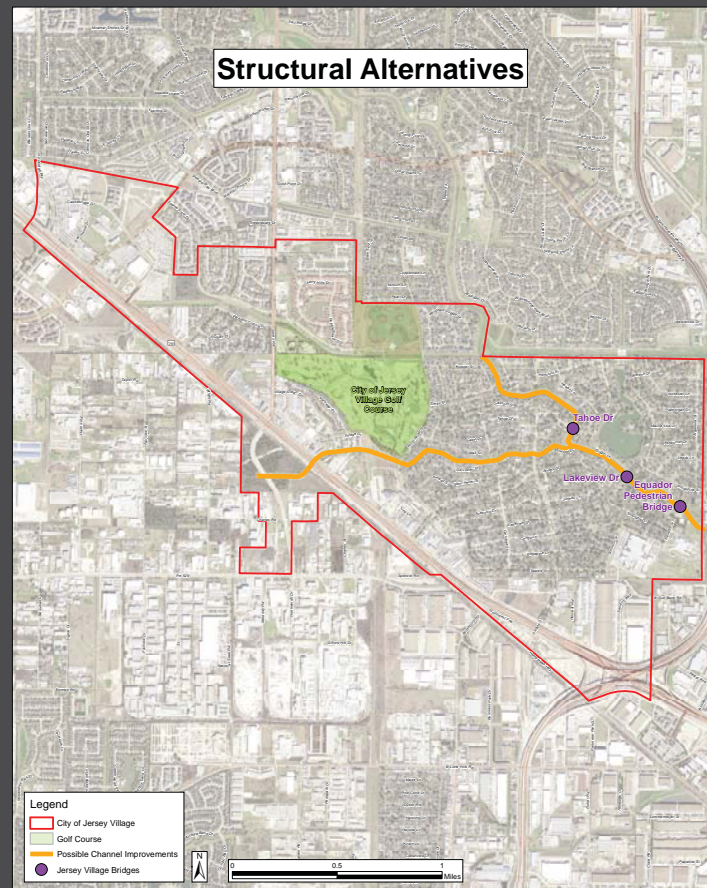
- Bridge improvements
- Channel improvements along the White Oak Bayou Main Channel (E100-00-00) and the South Fork of White Oak Bayou (Tributary E127-00-00)
- Stormwater detention facilities, including modification of the Jersey Meadows Golf Course
- Local street drainage assessments

WHAT'S NEXT?

In Phase 3, the flood damage reduction measures identified in Phase 2 will be combined into various flood damage reduction *systems*, and their collective performance will be analyzed together.

Phase 3 analysis will:

- Provide the benefits to be achieved through implementation of proposed flood damage reduction measures
- Identify a feasible plan that will be most advantageous for the City of Jersey Village



WHERE CAN I PROVIDE WRITTEN COMMENTS?

Long-term Flood Recovery Plan
402 Teetshorn Street
Houston, Texas 77009

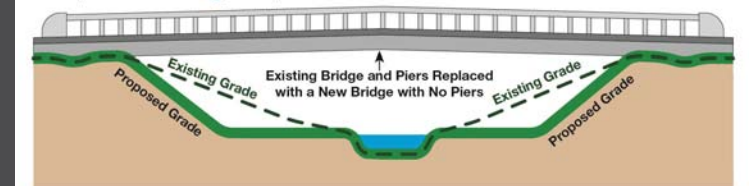
Email: JVfloodRecovery@crouchenvironmental.com

Website: www.JVfloodRecovery.com

Comment Deadline: April 21, 2017

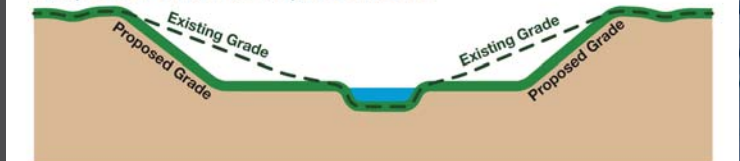
Bridge improvements are being evaluated at Tahoe Bridge, Lakeview Bridge, and the Equador Pedestrian Bridge.

Proposed Bridge Improvements



Bayou and tributary improvements are being considered where possible to add capacity to the channels within Jersey Village city limits.

Proposed Channel Improvements

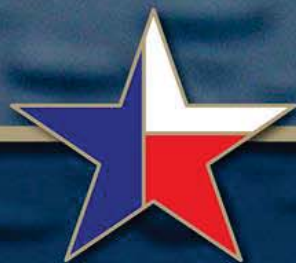


The Study Team is also considering modification of the Jersey Meadows Golf Course and area street drainage assessments, notably at Wall Street and Capri Drive.





**City of Jersey Village
Long-term Flood Recovery Plan
Welcome!**



**The City of Jersey Village
welcomes you to the second
public meeting for the
Jersey Village Long-term
Flood Recovery Plan.**

PLEASE FILL OUT AN ATTENDEE CARD



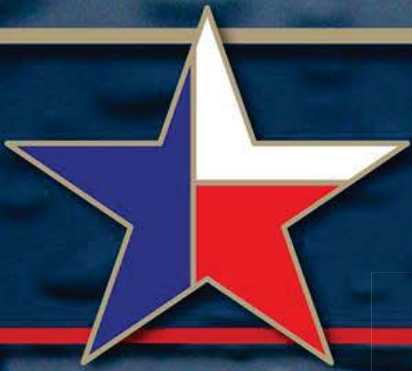
PLEASE TAKE A COMMENT FORM



The Jersey Village Long-term Flood Recovery Planning Study is an accelerated flood damage reduction effort to address repetitive flooding in the City of Jersey Village and the surrounding area.

STUDY PURPOSE

The goal of the study is to develop a hydraulically feasible and cost-effective Long-term Flood Recovery Plan that is acceptable to the City of Jersey Village residents and elected city officials.





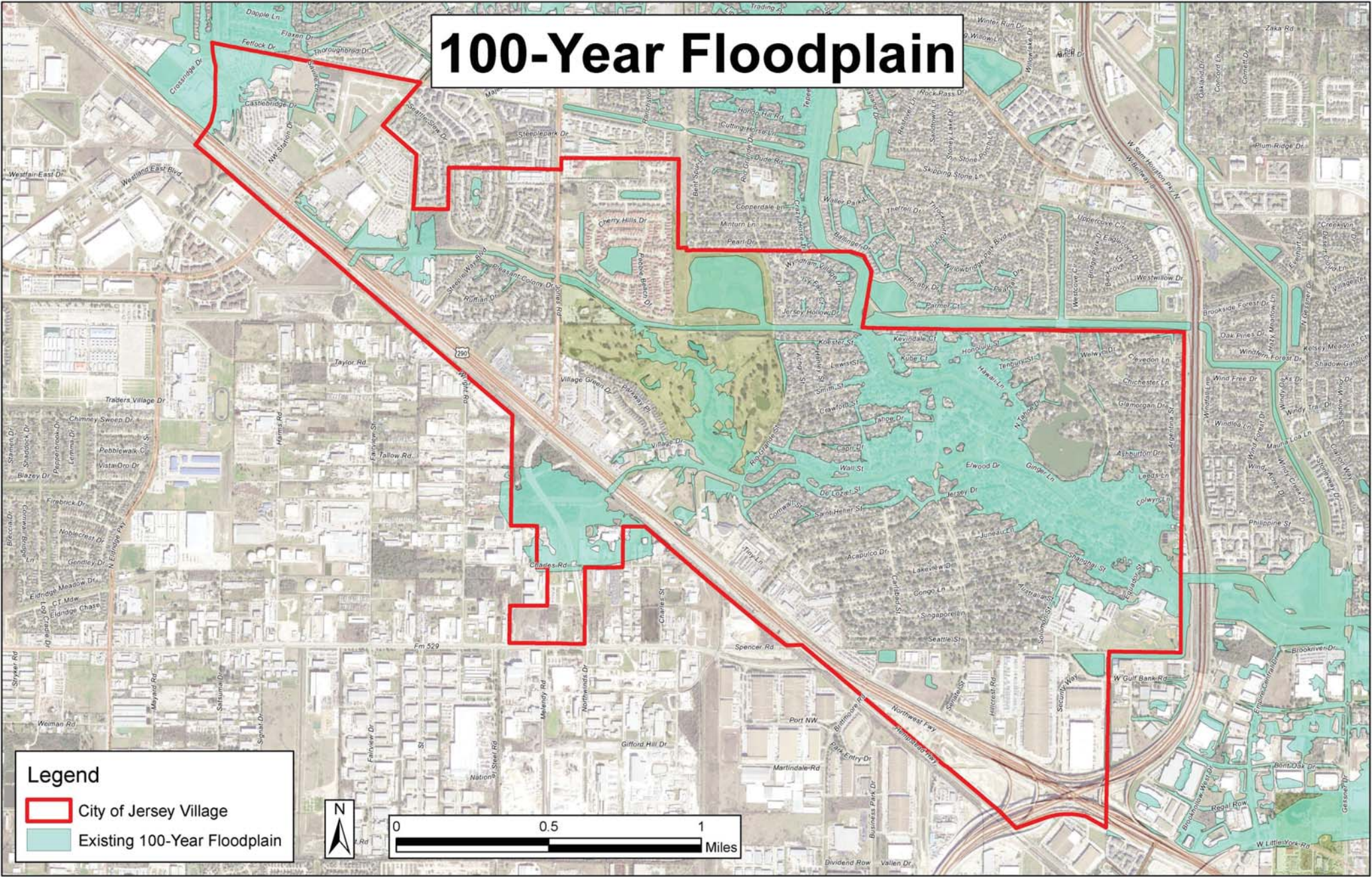
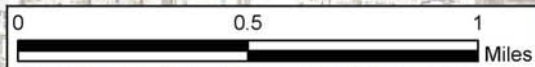
WHAT IS THE PURPOSE OF THIS PUBLIC MEETING?

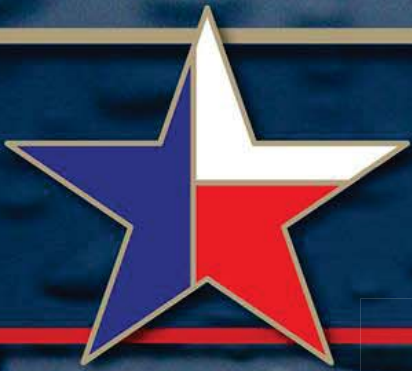
- Provide updated information about the study scope and schedule
- Provide information about opportunities for the public to participate in the planning study
- Present structural and nonstructural flood damage reduction concepts for the public to review and provide feedback

100-Year Floodplain

Legend

-  City of Jersey Village
-  Existing 100-Year Floodplain





HOW TO PARTICIPATE IN TONIGHT'S MEETING:

- Watch the informational project video
- View displays and discuss the study with the many Study Team representatives available tonight
- Provide feedback on the study maps about the proposed flood damage reduction measures
- Provide written feedback by *April 21, 2017*

WE NEED YOUR FEEDBACK!

Throughout the life of the study, the Long-term Flood Recovery Plan Study Team will proactively encourage public feedback and participation.

Public input is a critical part of creating a successful plan that reflects the community's desires and interests.

WHERE CAN I PROVIDE WRITTEN COMMENTS?

Long-term Flood Recovery Plan

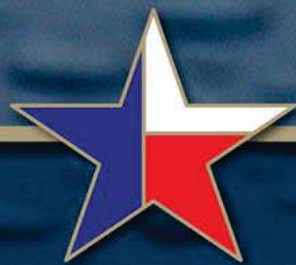
402 Teetshorn Street

Houston, Texas 77009

Email: JVfloodRecovery@crouchenvironmental.com

Website: www.JVfloodRecovery.com

Comment Deadline: April 21, 2017



ABOUT THE LONG-TERM FLOOD RECOVERY PLANNING PROCESS

The Jersey Village Long-term Flood Recovery Planning Study is an accelerated flood damage reduction effort to address repetitive flooding in the City of Jersey Village and the surrounding area.

STUDY PURPOSE

The goal of the study is to develop a hydraulically feasible and cost-effective Long-term Flood Recovery Plan that is acceptable to the City of Jersey Village residents and elected city officials.

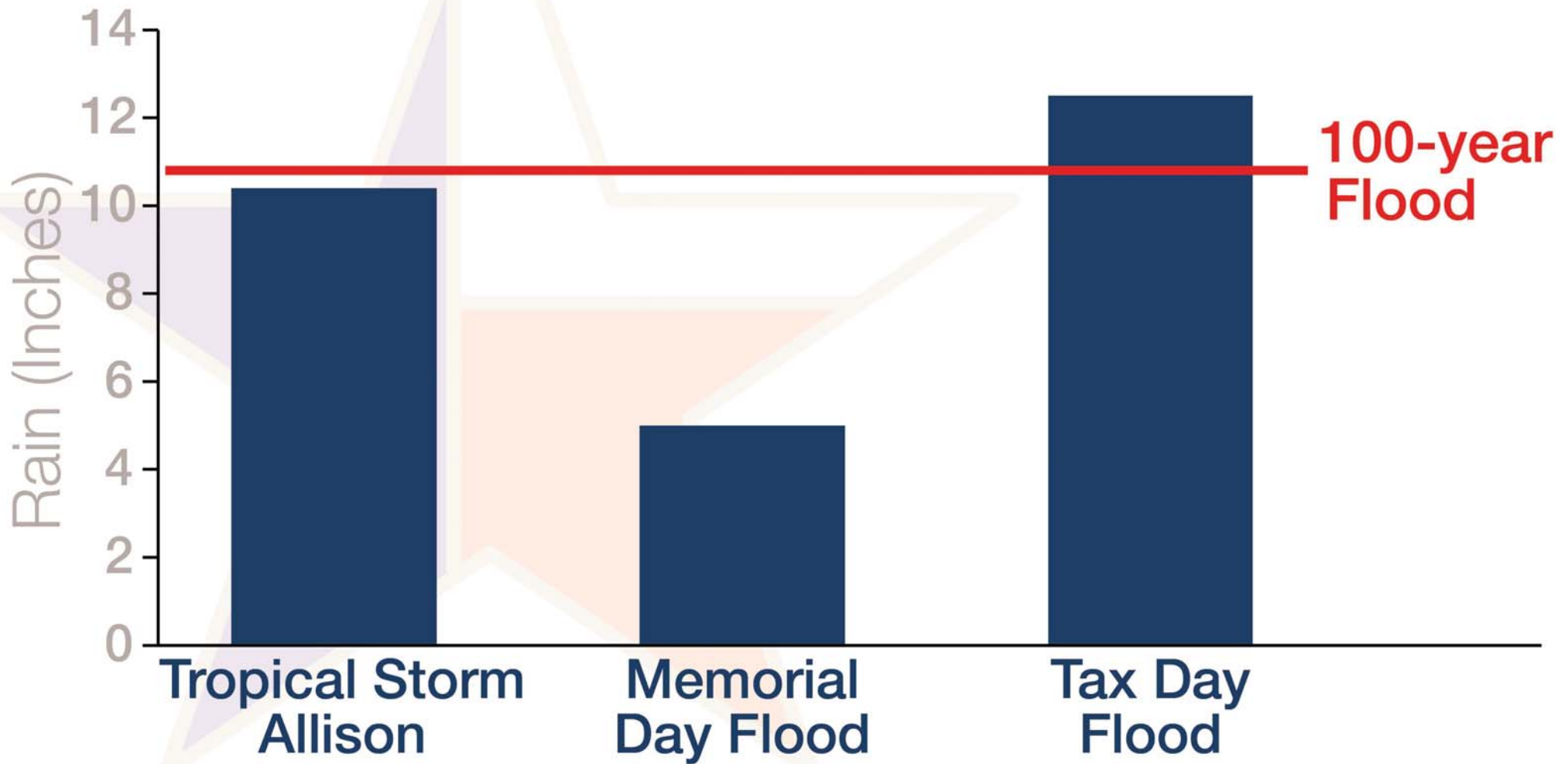
Despite a total of \$120 million of flood damage reduction efforts on behalf of the City and the Harris County Flood Control District, 238 structures within Jersey Village experienced flooding during the most recent “Tax Day” flooding event on April 18, 2016.

The City responded to this severe flooding event by initiating the **Long-term Flood Recovery Planning Study**



Historic Rain Gauge Data

Rainfall Amounts Over a 12-hour Time Period



PROJECT SCHEDULE

Phase 1

**Data Collection and
Preliminary Assessment**
September – October 2016



Phase 2

**Technical Analysis and
Development of Alternatives**
October 2016 – March 2017

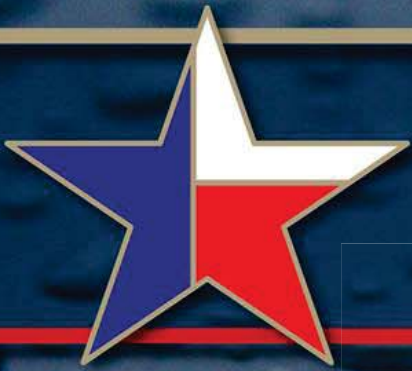
WE ARE HERE



Phase 3

**Preferred Alternative
Selection and Finalization**
March – June 2017



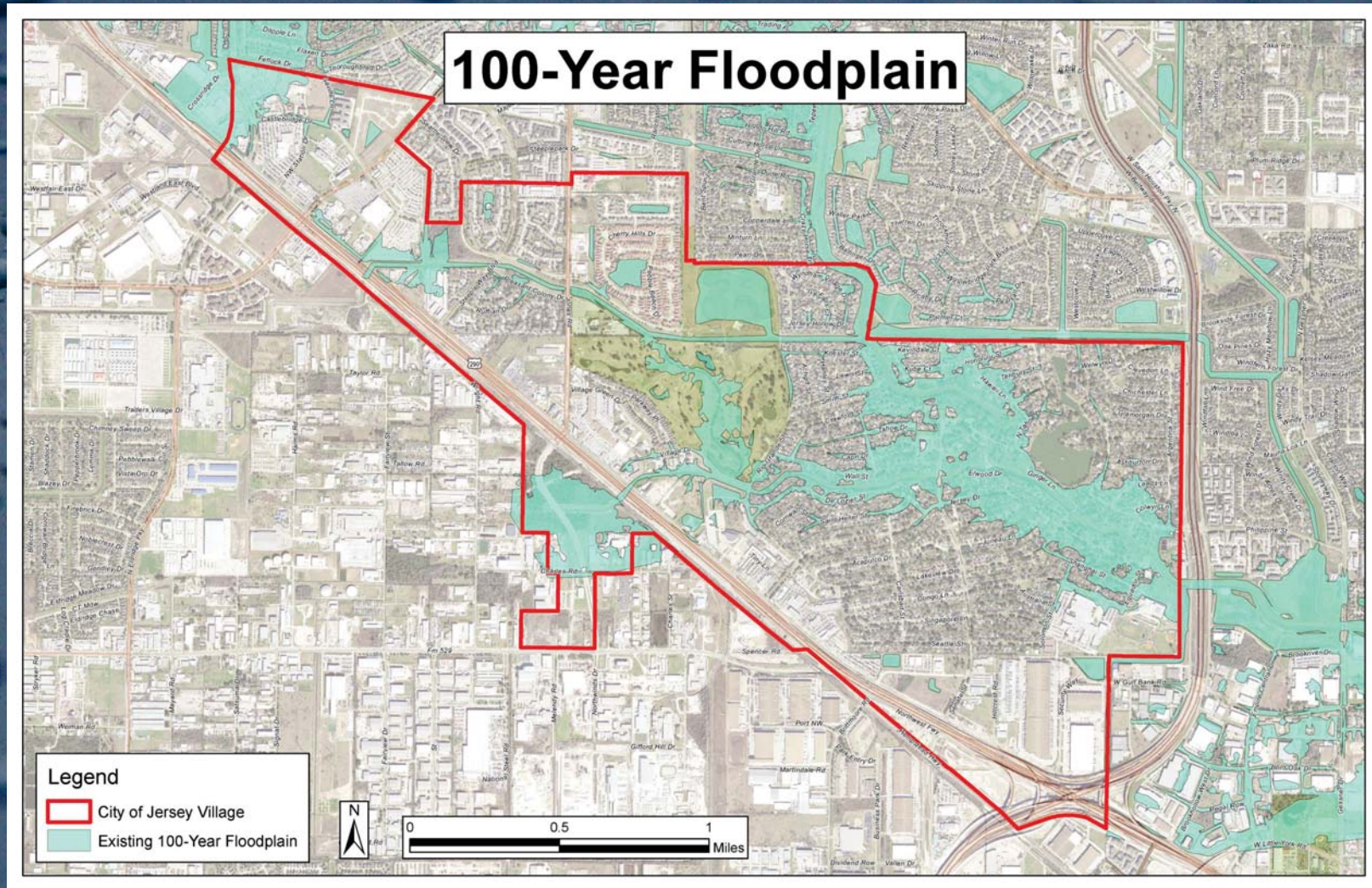


THE STUDY PROCESS

The project is being delivered in three phases with a public meeting for each phase:

- Phase 1: Data Collection and Preliminary Assessment
- Phase 2: Technical Analysis and Development of Alternatives
- Phase 3: Preferred Alternative Selection and Finalization

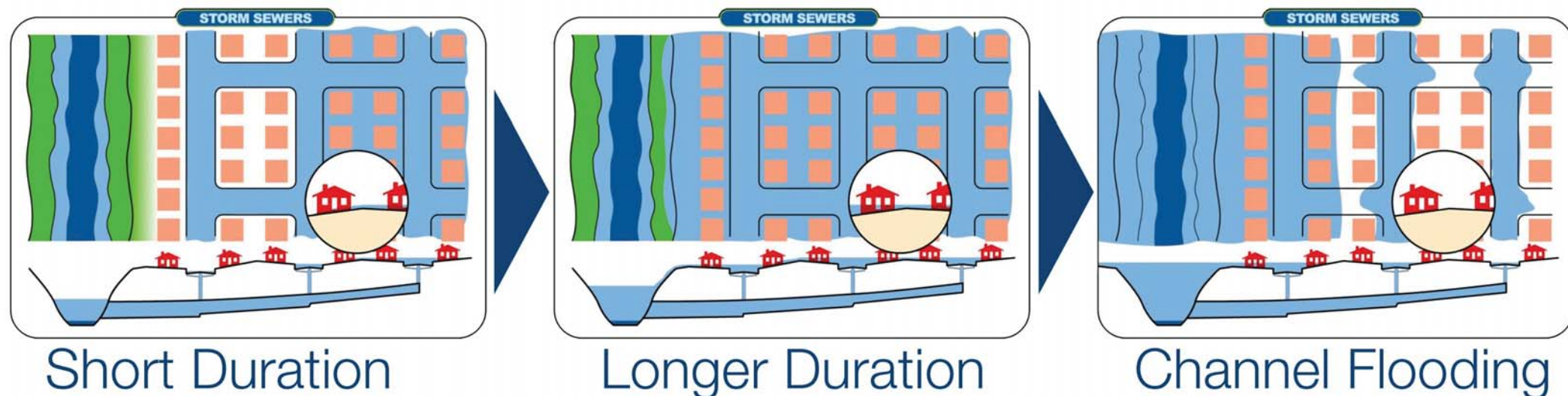
In Phase 2, it was identified that more than 100 structures in Jersey Village are within the 100-year floodplain.

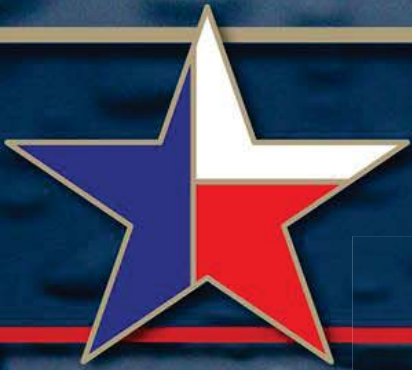


Two types of flooding are being considered in the Long-term Flood Recovery Planning Process:

- Channel or bayou flooding
- Neighborhood street flooding

Ponding & Sheetflow Flooding From Intense Local Rainfall





WHAT'S NEXT?

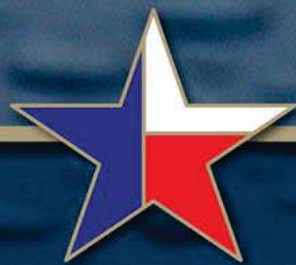
In Phase 3, the flood damage reduction measures identified in Phase 2 will be combined into various flood damage reduction *systems*, and their collective performance will be analyzed together.

Phase 3 analysis will:

- *Provide the benefits to be achieved through implementation of proposed flood damage reduction measures*
- *Identify a feasible plan that will be most advantageous for the City of Jersey Village*

When Delivered in Phase 3, what will the Long-term Flood Recovery Plan include?

- A system of recommended solutions, including:
 - Structural flood damage reduction measures
 - Nonstructural flood damage reduction measures
- Financing plan
- Implementation strategy



PHASE 2 STUDY FINDINGS



The following analyses were completed in Phase 2:

- Rapid Assessment Structural Inventory
- Drainage Impact Study for the Jersey Village Transit-Oriented Development
- Extensive hydrologic and hydraulic modeling
- Development of a system of preliminary flood damage reduction concepts

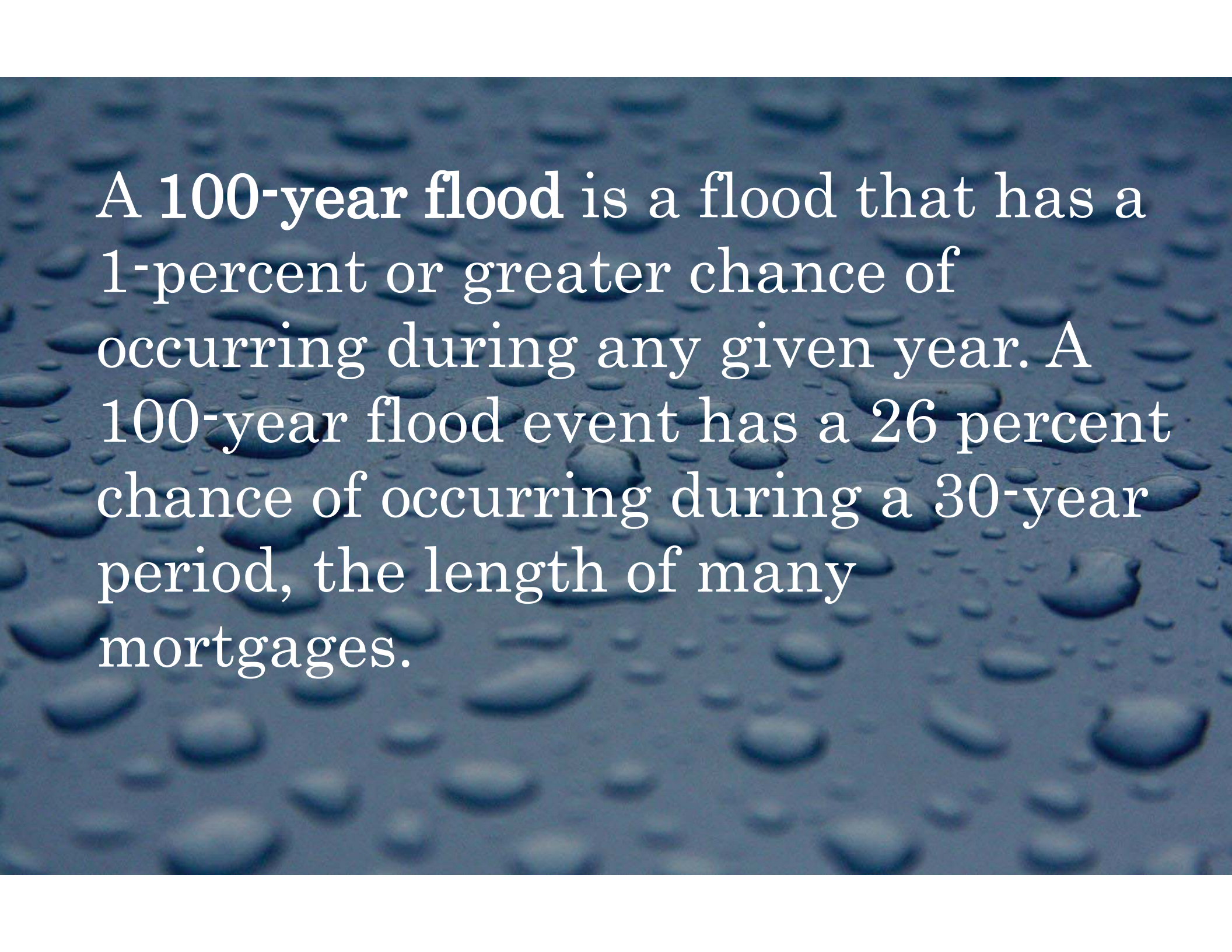
What is a Rapid Assessment Structural Inventory?

This detailed assessment identified structures that are located deep in the floodplain, even after completion of all flood damage reduction efforts identified by the federal flood damage reduction plan for White Oak Bayou.



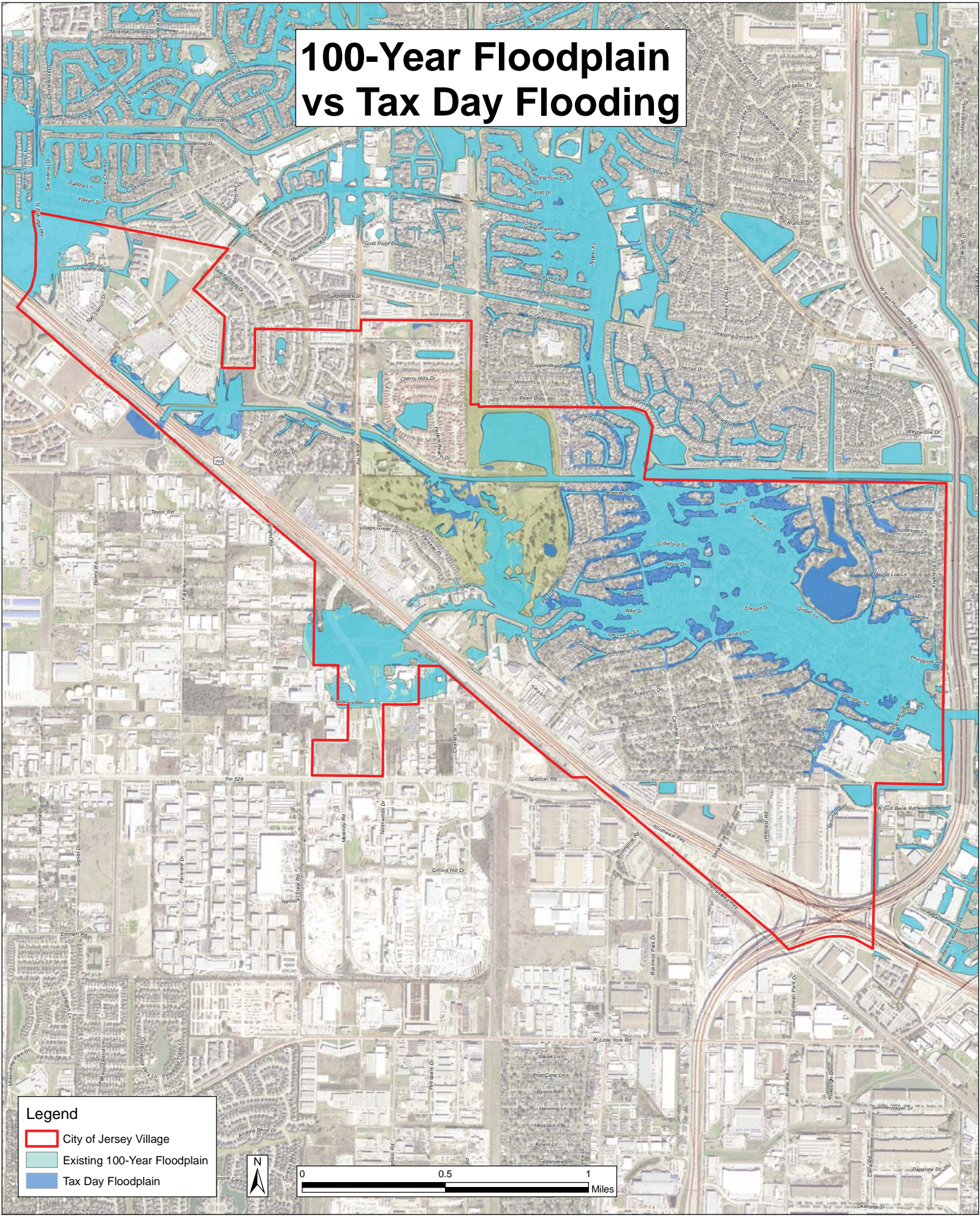
**US Army Corps
of Engineers®**






A background image showing numerous water droplets of varying sizes on a dark, textured surface, likely a leaf or a similar natural material. The droplets are illuminated, creating highlights and shadows that give them a three-dimensional appearance. The overall color palette is dark blue and black with white highlights from the water.


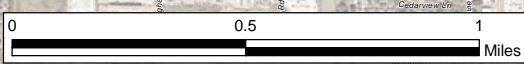
A 100-year flood is a flood that has a 1-percent or greater chance of occurring during any given year. A 100-year flood event has a 26 percent chance of occurring during a 30-year period, the length of many mortgages.

100-Year Floodplain vs Tax Day Flooding



Legend

-  City of Jersey Village
-  Existing 100-Year Floodplain
-  Tax Day Floodplain


 0 0.5 1 Miles

WHERE CAN I PROVIDE WRITTEN COMMENTS?

Long-term Flood Recovery Plan

402 Teetshorn Street

Houston, Texas 77009

Email: JVfloodRecovery@crouchenvironmental.com

Website: www.JVfloodRecovery.com

Comment Deadline: April 21, 2017

Hydrologic and hydraulic modeling yielded the following results:

- Of the 238 structures that experienced flooding during the “Tax Day” flood event, it was identified that at least **210 of these structures were flooded due to bayou flooding**. The remaining structures flooded as a result of local street flooding.
- The dramatic flooding associated with the “Tax Day” event was equivalent to a 240-year rainfall event, approximately.

- When the “Tax Day” floods were simulated with all flood damage reduction measures implemented since 2008 removed from the model, 363 homes in the model were impacted by bayou flooding (compared to the 210 homes that were impacted). This indicates that flood damage reduction measures implemented since 2008 significantly increased the level of protection in Jersey Village.



PROJECT SCHEDULE

Phase 1

Data Collection and Preliminary Assessment
September – October 2016



Phase 2

Technical Analysis and Development of Alternatives
October 2016 – March 2017

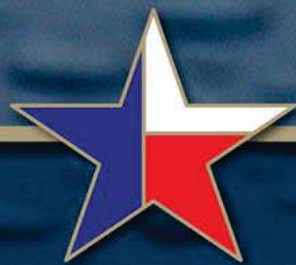
WE ARE HERE



Phase 3

Preferred Alternative Selection and Finalization
March – June 2017





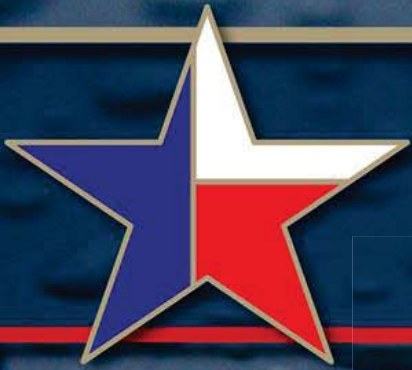
PROPOSED FLOOD DAMAGE REDUCTION METHODS

The Long-term Flood Recovery Plan will produce a system of strategies that will consist of a variety of structural and nonstructural methods. Using these findings, the study team will recommend a hydraulically feasible and cost-effective solution of flood damage reduction in summer 2017.



The following structural flood damage reduction measures are being evaluated:

- Bridge improvements
- Channel improvements along the White Oak Bayou Main Channel (E100-00-00) and the South Fork of White Oak Bayou (Tributary E127-00-00)
- Stormwater detention facilities, including modification of the Jersey Meadows Golf Course
- Local street drainage assessments



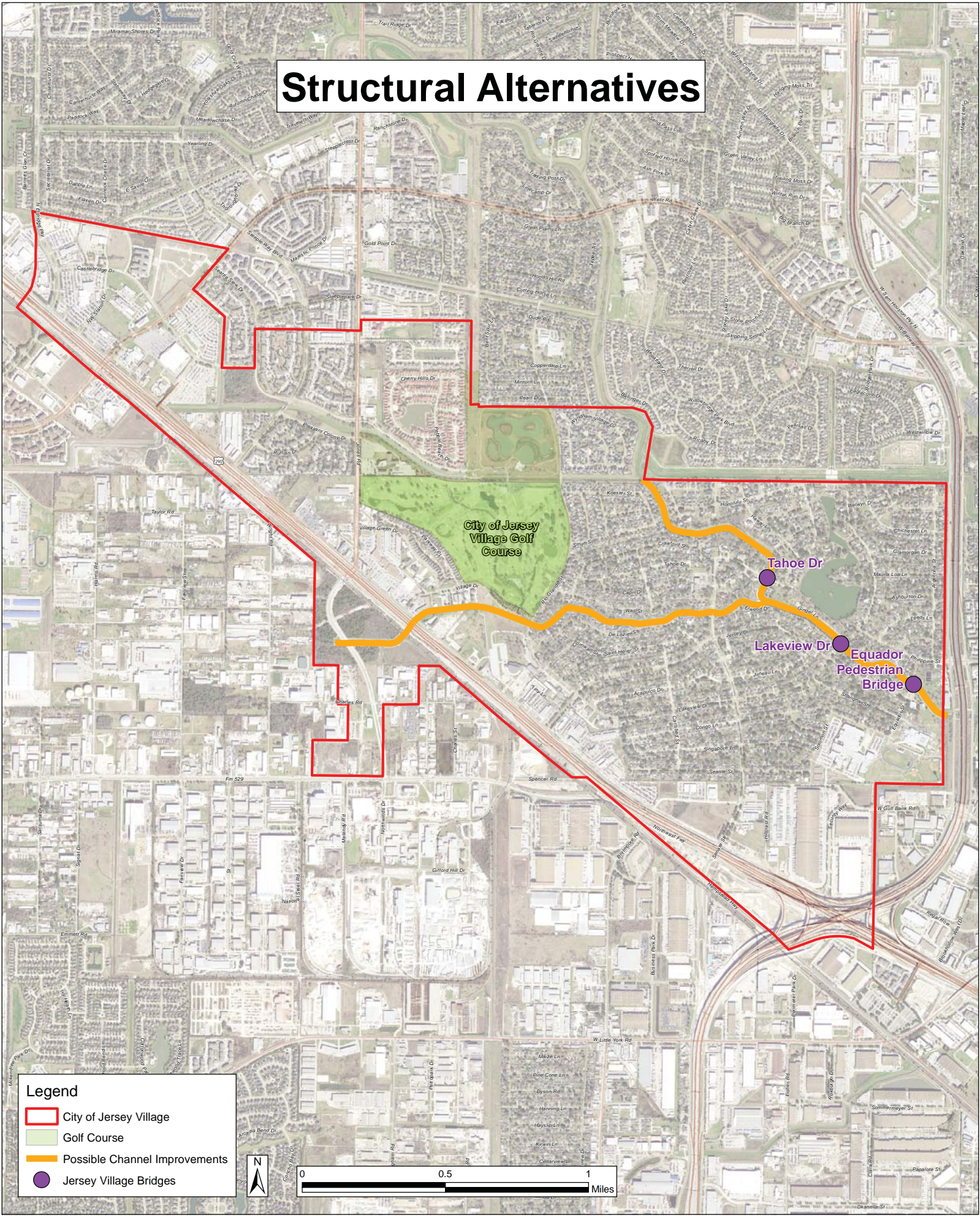
WHAT'S NEXT?

In Phase 3, the flood damage reduction measures identified in Phase 2 will be combined into various flood damage reduction *systems*, and their collective performance will be analyzed together.

Phase 3 analysis will:

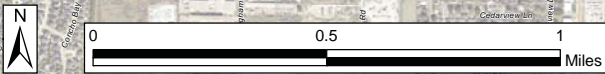
- *Provide the benefits to be achieved through implementation of proposed flood damage reduction measures*
- *Identify a feasible plan that will be most advantageous for the City of Jersey Village*

Structural Alternatives



Legend

- City of Jersey Village
- Golf Course
- Possible Channel Improvements
- Jersey Village Bridges



WHERE CAN I PROVIDE WRITTEN COMMENTS?

Long-term Flood Recovery Plan

402 Teetshorn Street

Houston, Texas 77009

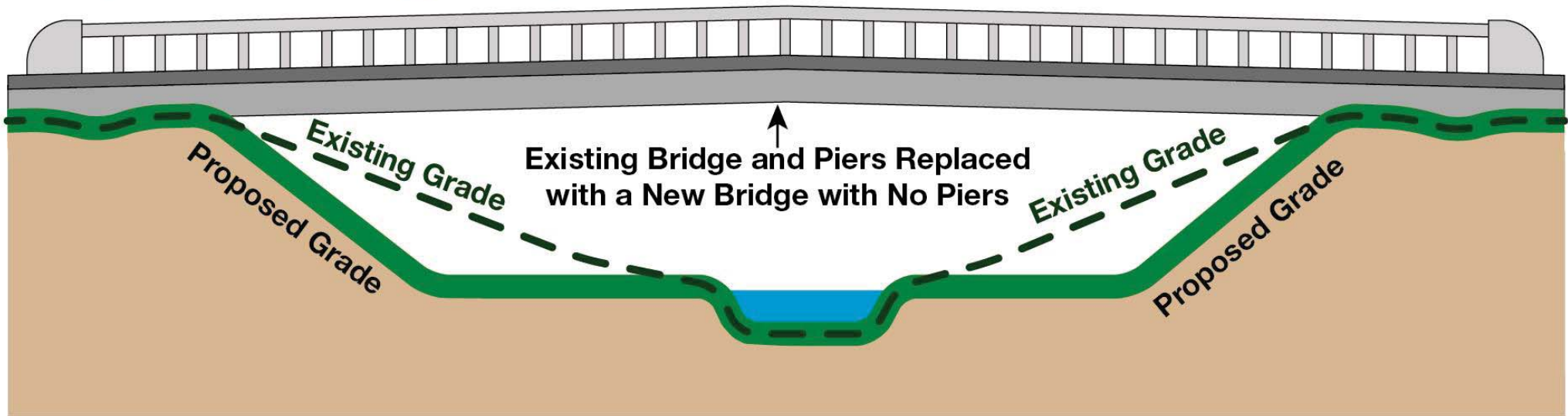
Email: JVfloodRecovery@crouchenvironmental.com

Website: www.JVfloodRecovery.com

Comment Deadline: April 21, 2017

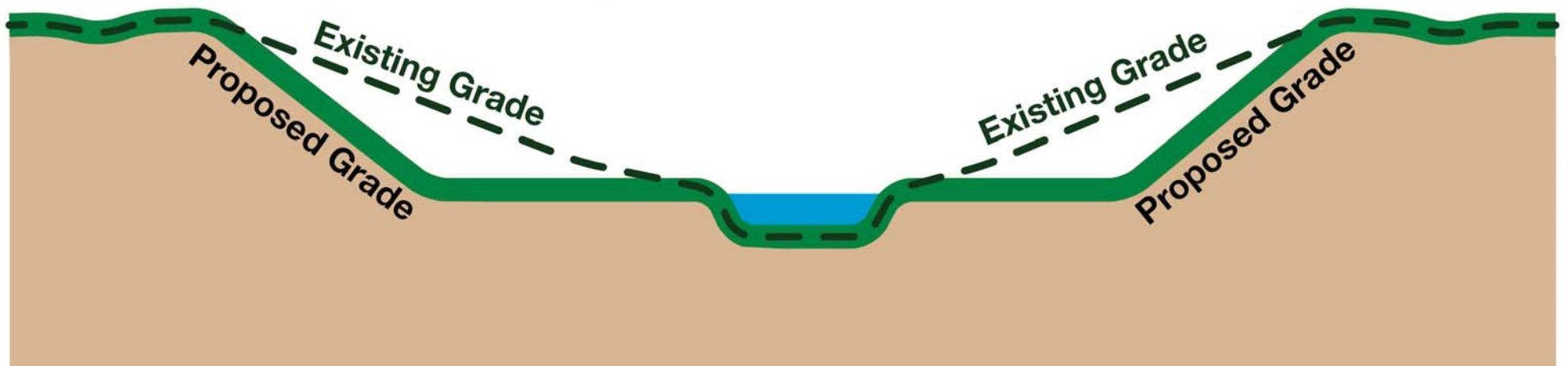
Bridge improvements are being evaluated at Tahoe Bridge, Lakeview Bridge, and the Equador Pedestrian Bridge.

Proposed Bridge Improvements



Bayou and tributary improvements are being considered where possible to add capacity to the channels within Jersey Village city limits.

Proposed Channel Improvements

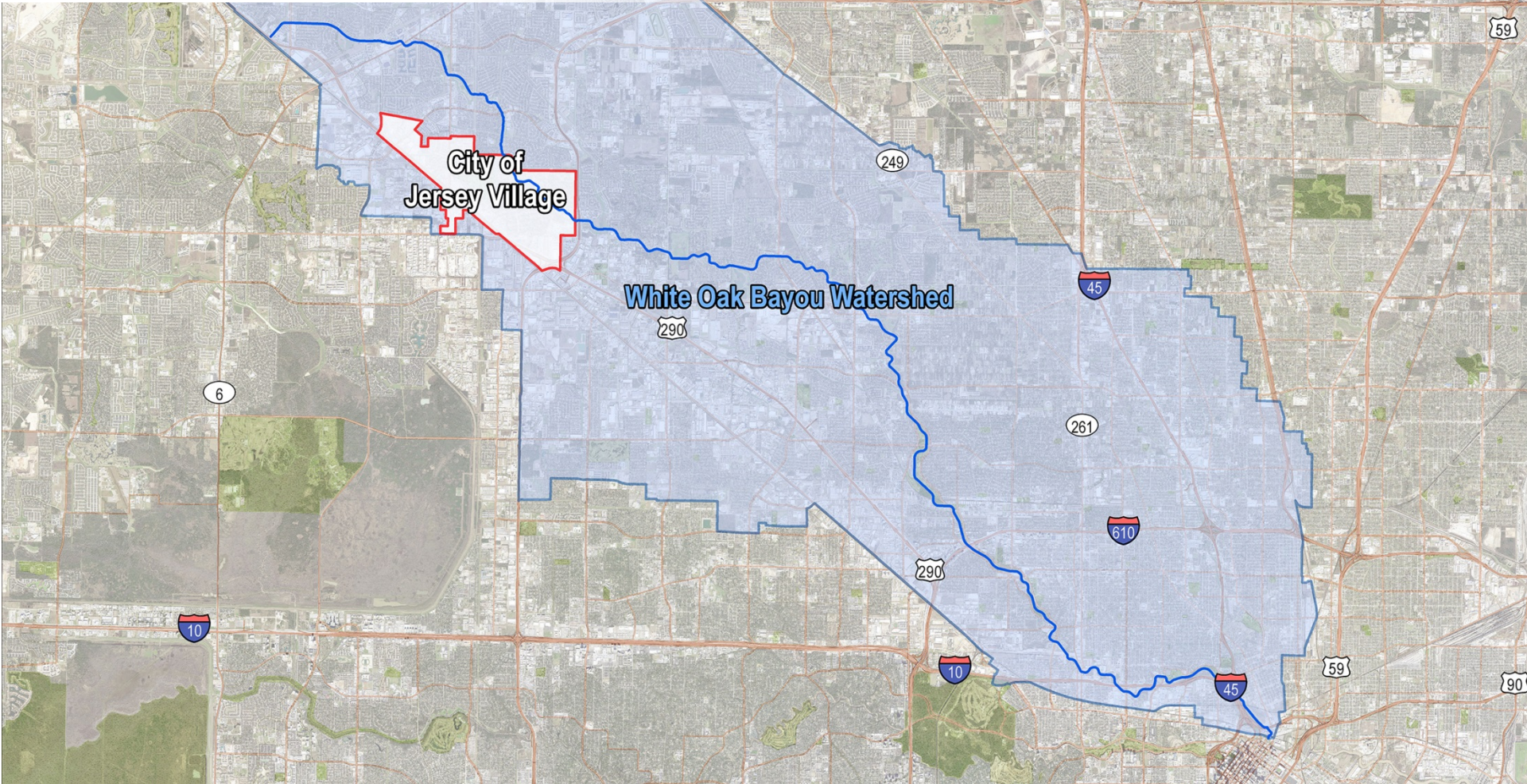


The Study Team is also considering modification of the Jersey Meadows Golf Course and area street drainage assessments, notably at Wall Street and Capri Drive.



Electronic Displays

White Oak Bayou Watershed



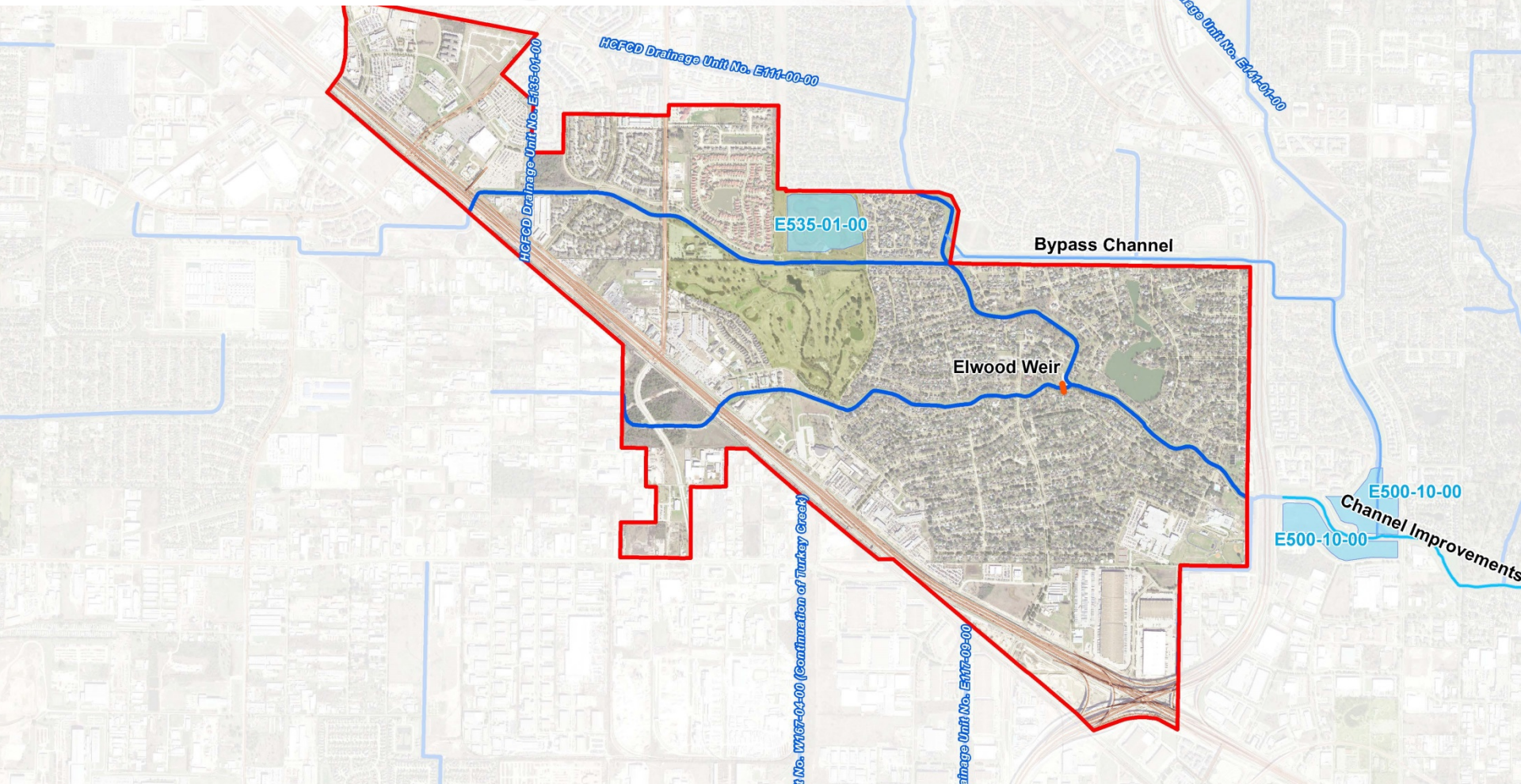


White Oak Bayou

White Oak Bayou



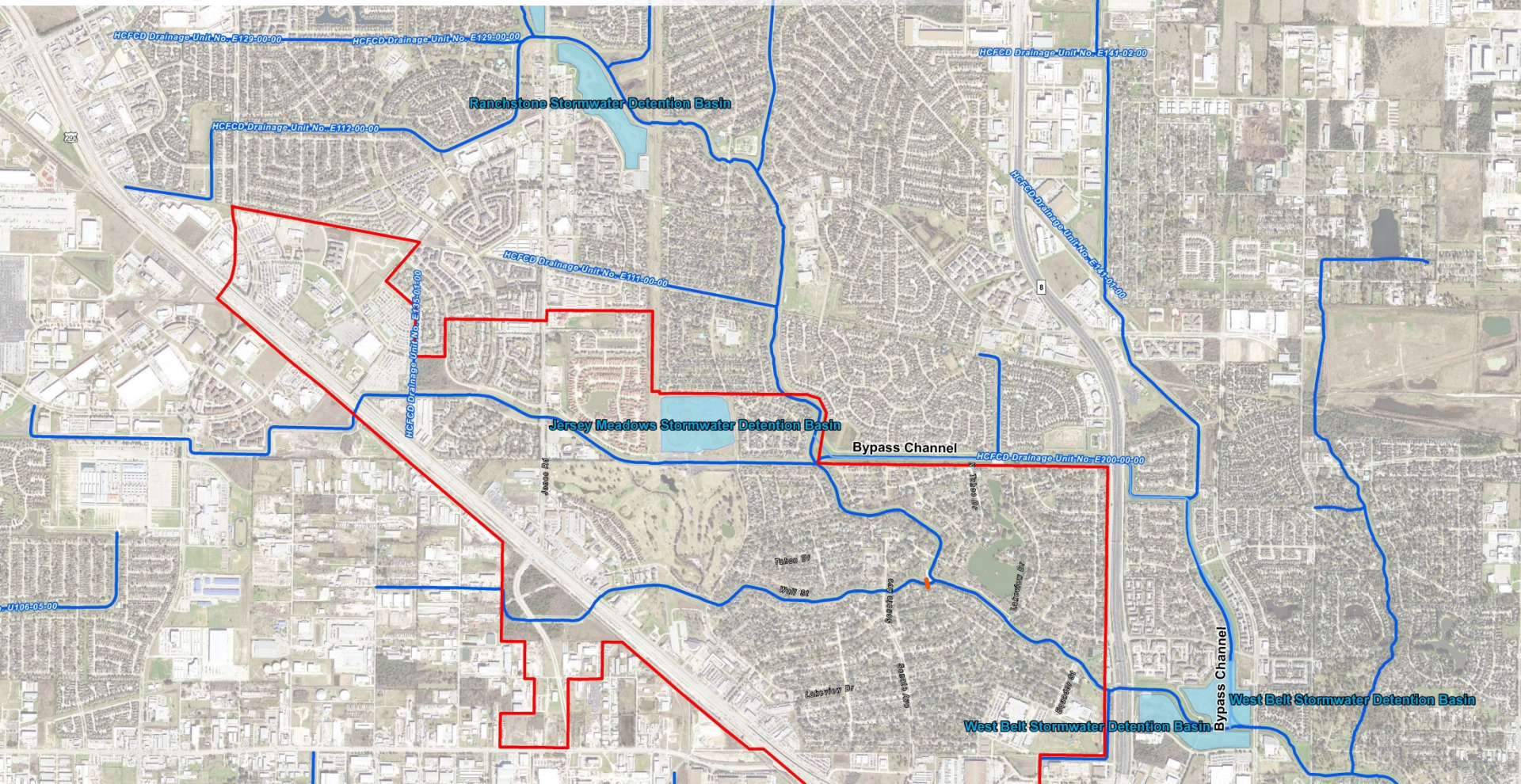
Existing Flood Damage Reduction Measures





Elwood Weir

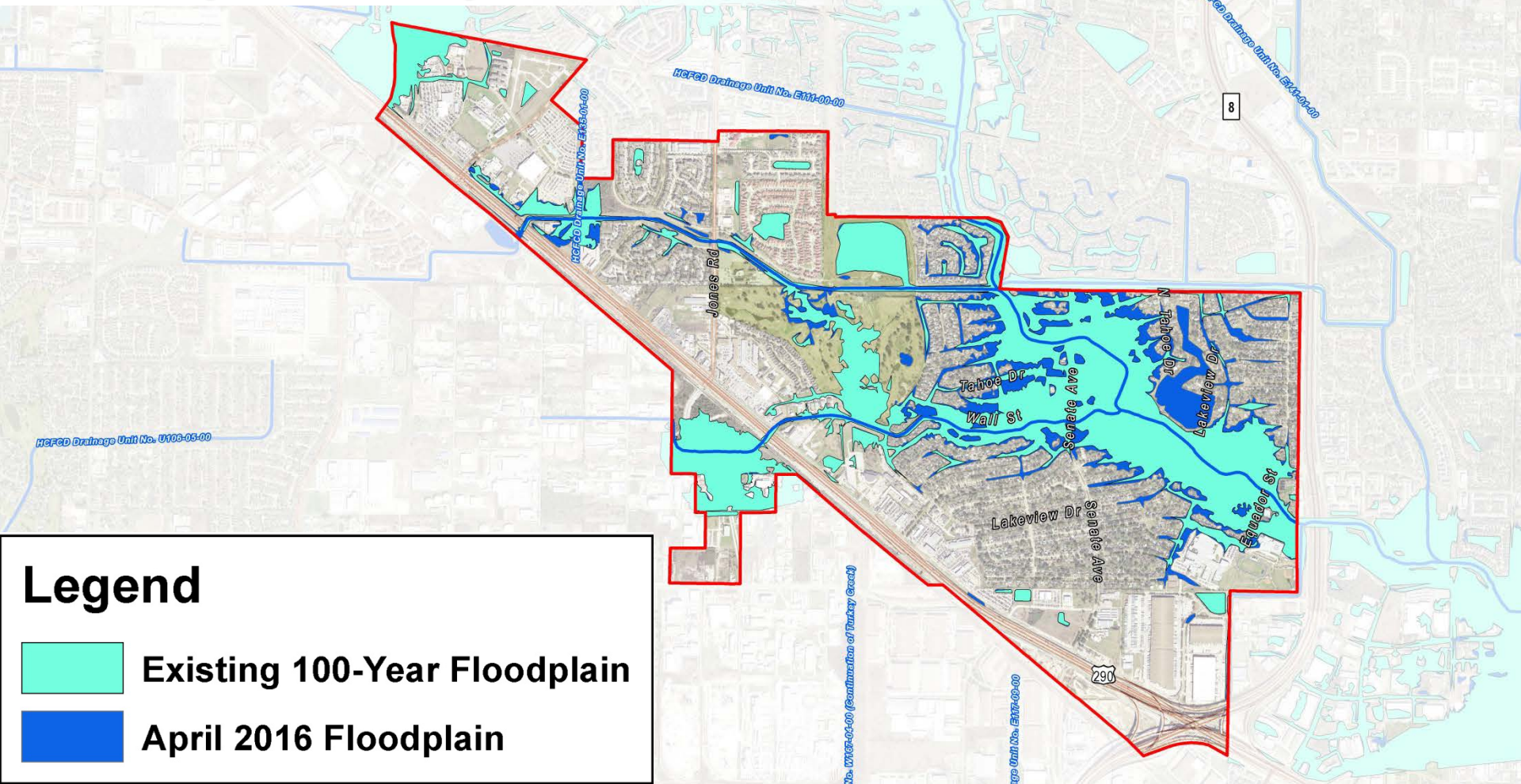
Existing Stormwater Detention Basins



Jersey Meadows Stormwater Detention Basin



“Tax Day” Vs. 100-year Floodplain

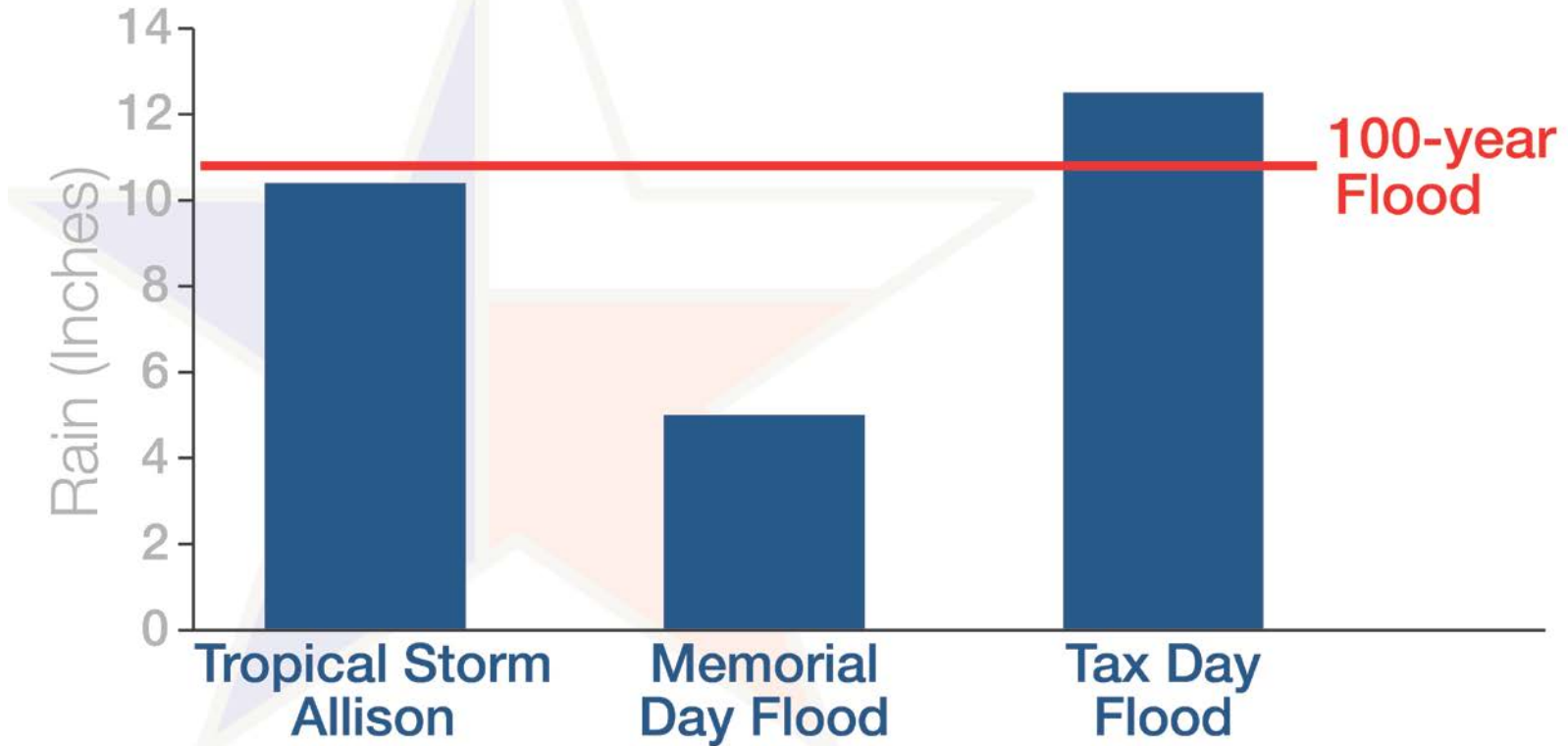


Legend

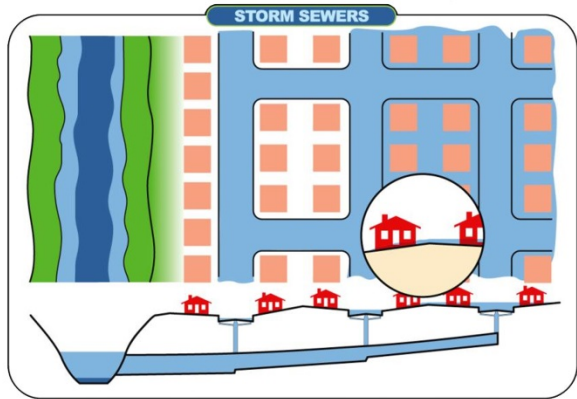
-  Existing 100-Year Floodplain
-  April 2016 Floodplain

Historic Rain Gauge Data

Rainfall Amounts Over a 12-hour Time Period



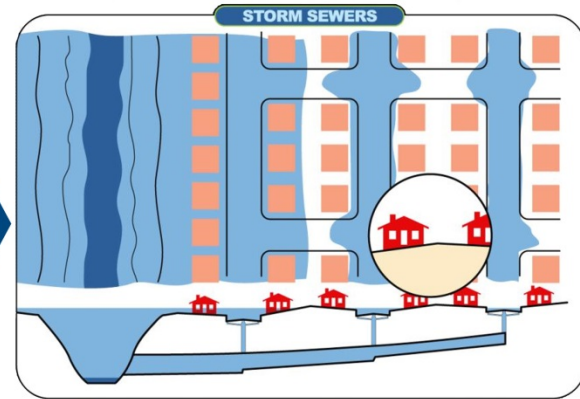
Ponding & Sheetflow Flooding From Intense Local Rainfall



Short Duration



Longer Duration



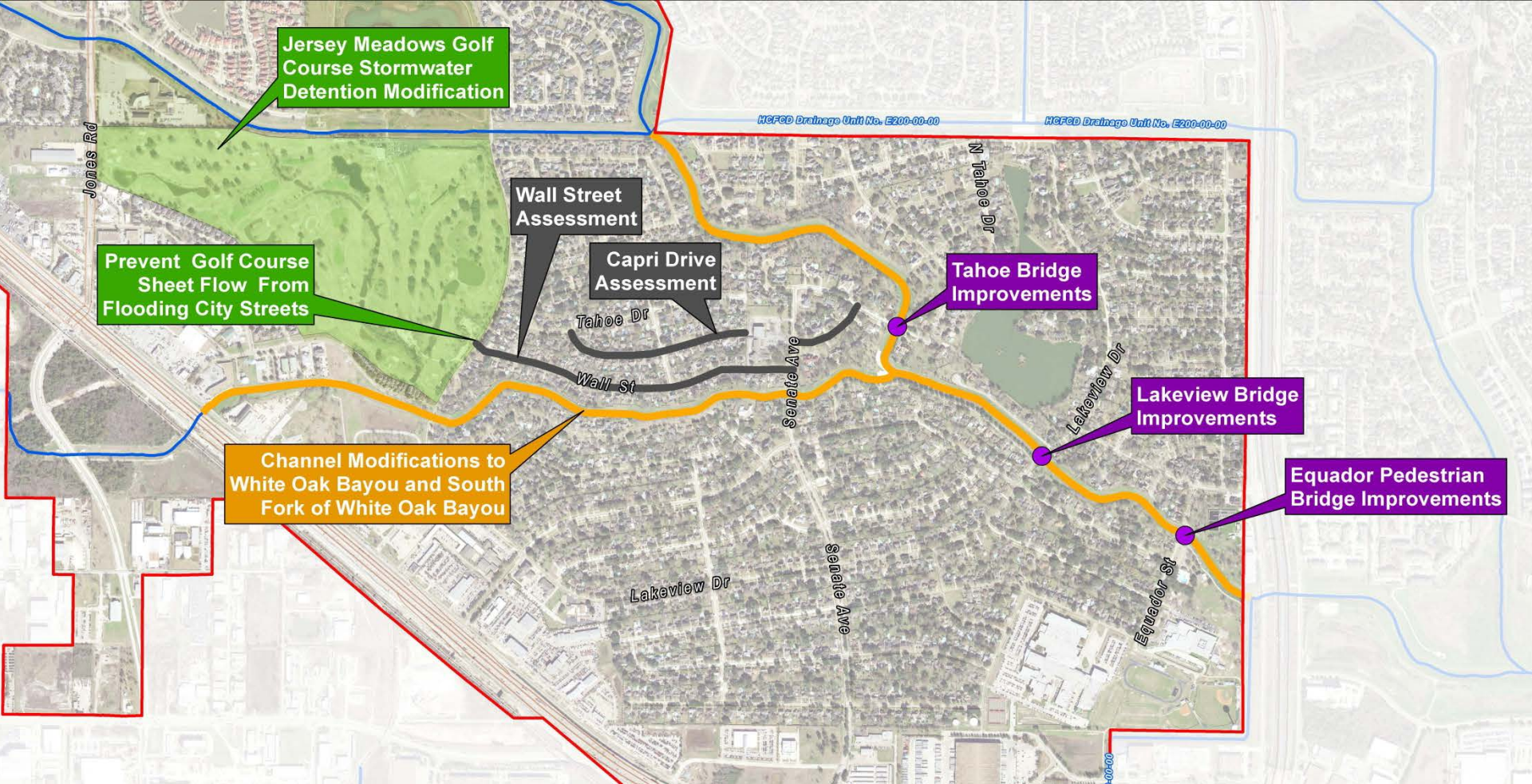
Channel Flooding



Jersey Village Bypass Channel



Westwillow Stormwater Detention Basin



Jersey Meadows Golf Course Stormwater Detention Modification

Prevent Golf Course Sheet Flow From Flooding City Streets

Wall Street Assessment

Capri Drive Assessment

Tahoe Bridge Improvements

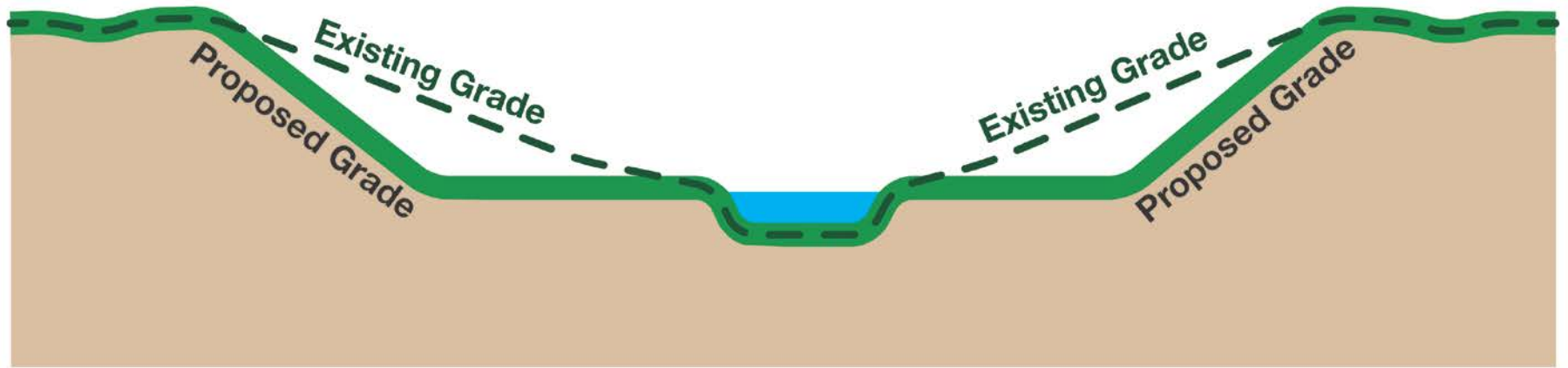
Lakeview Bridge Improvements

Equador Pedestrian Bridge Improvements

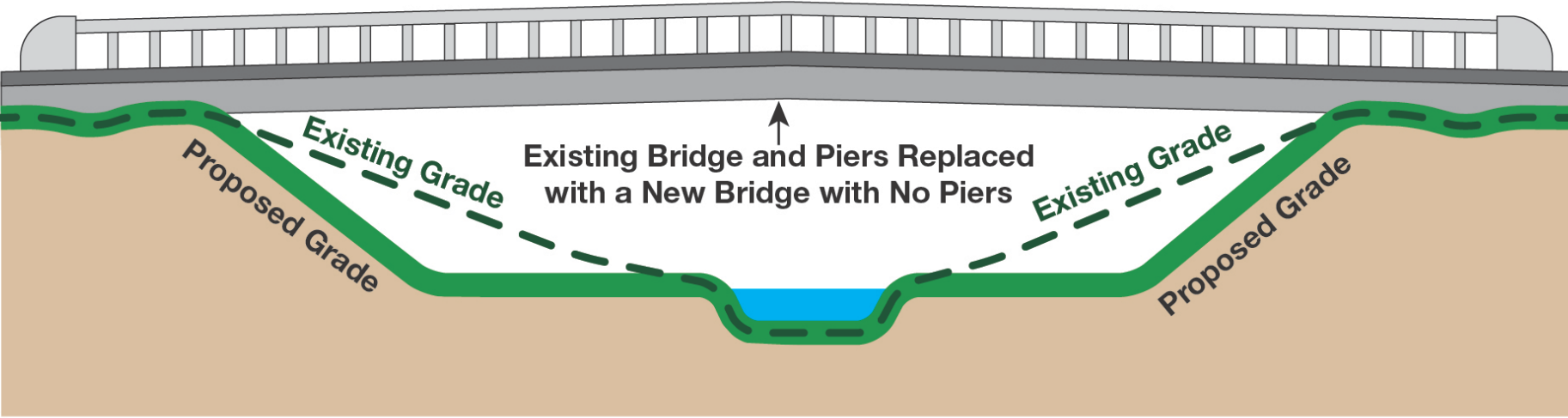
Channel Modifications to White Oak Bayou and South Fork of White Oak Bayou

Proposed Structural Alternatives

Proposed Channel Improvements



Proposed Bridge Improvements



Appendix I
Maps and Exhibits

Structural Alternatives Map



Alter golf course design for detention storage

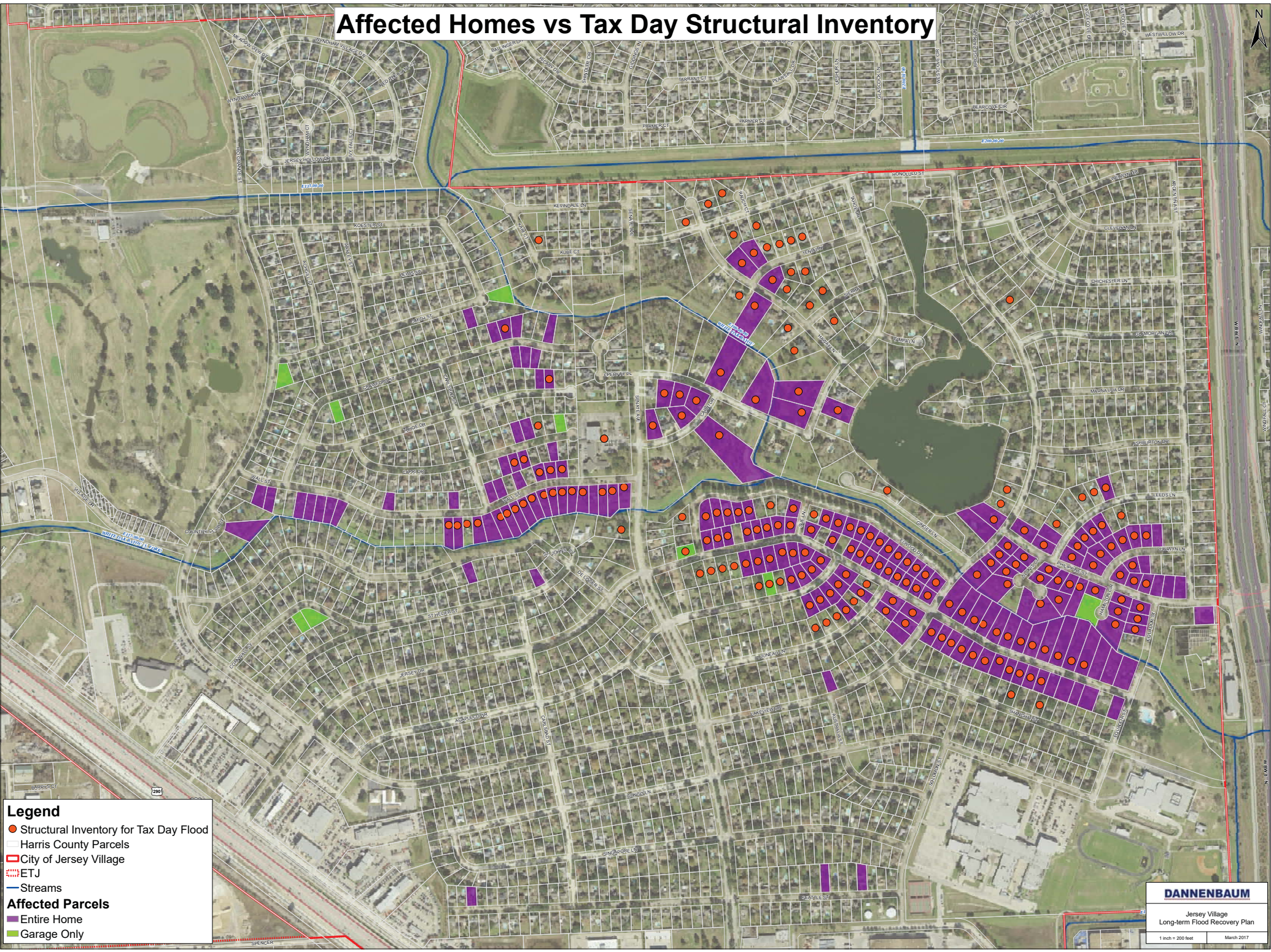
Assess street stormwater capacity

Increase channel capacity

Replace and improve bridges

- Legend**
- Jersey Village Bridges
 - Street Assessments
 - Possible Channel Improvements
 - Jersey Meadows Golf Course
 - Streams

Affected Homes vs Tax Day Structural Inventory



Legend

- Structural Inventory for Tax Day Flood
- Harris County Parcels
- City of Jersey Village
- ETJ
- Streams

Affected Parcels

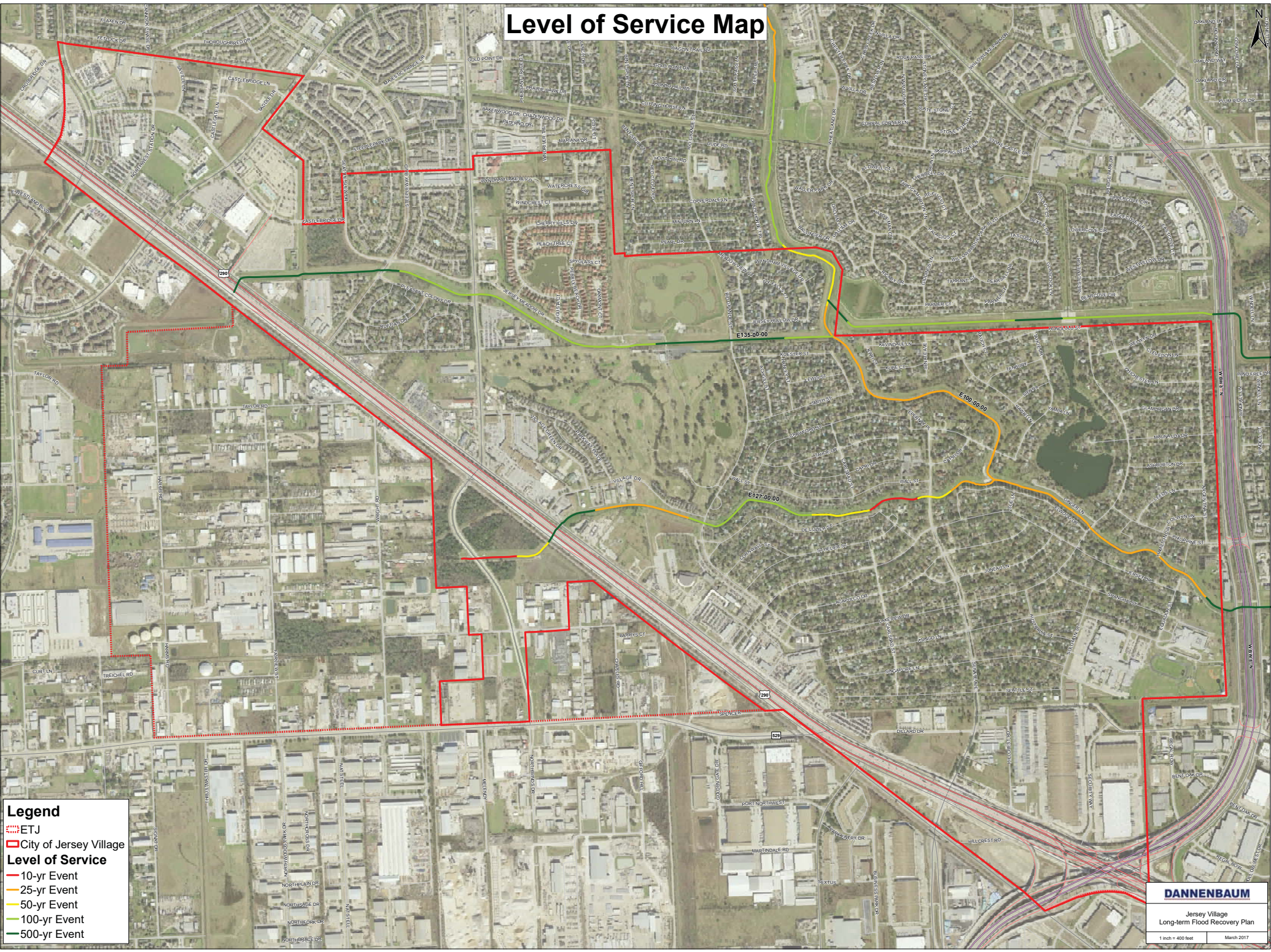
- Entire Home
- Garage Only

DANNENBAUM

Jersey Village
Long-term Flood Recovery Plan

1 inch = 200 feet March 2017

Level of Service Map



Legend

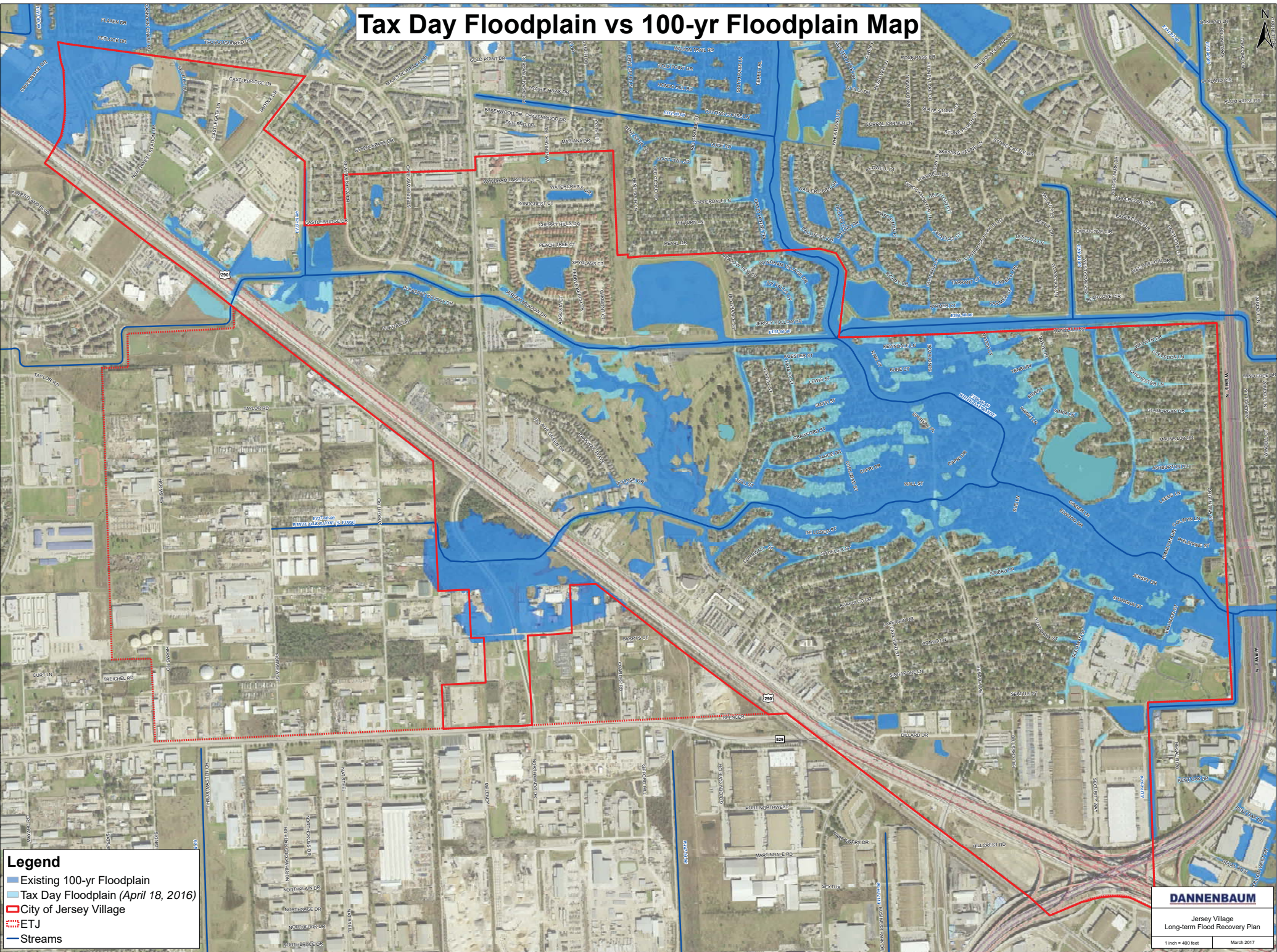
- ETJ
- City of Jersey Village
- Level of Service
- 10-yr Event
- 25-yr Event
- 50-yr Event
- 100-yr Event
- 500-yr Event

DANNENBAUM

Jersey Village
Long-term Flood Recovery Plan

1 inch = 400 feet March 2017

Tax Day Floodplain vs 100-yr Floodplain Map



Legend

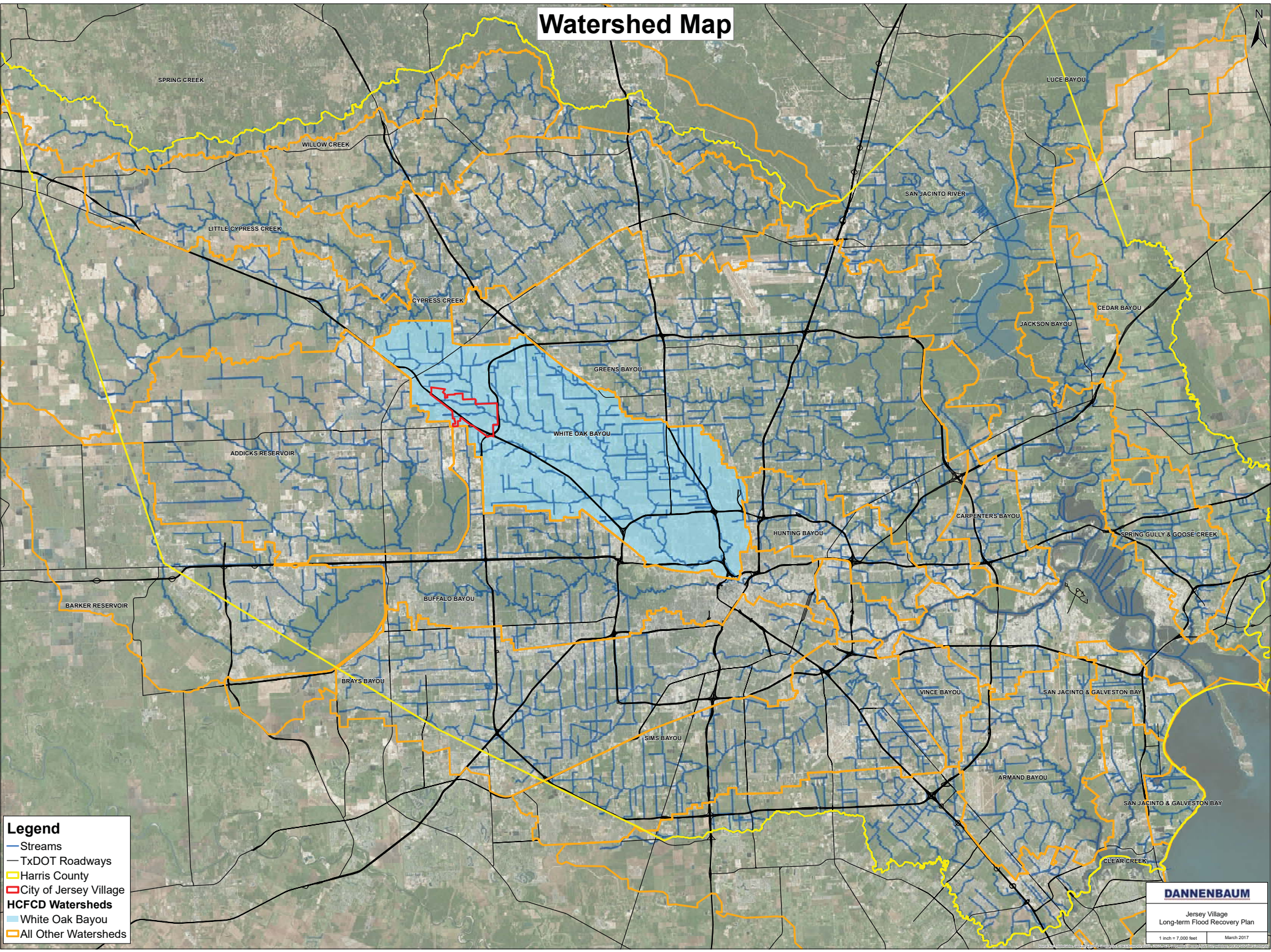
- Existing 100-yr Floodplain
- Tax Day Floodplain (April 18, 2016)
- City of Jersey Village
- ETJ
- Streams

DANNENBAUM

Jersey Village
Long-term Flood Recovery Plan

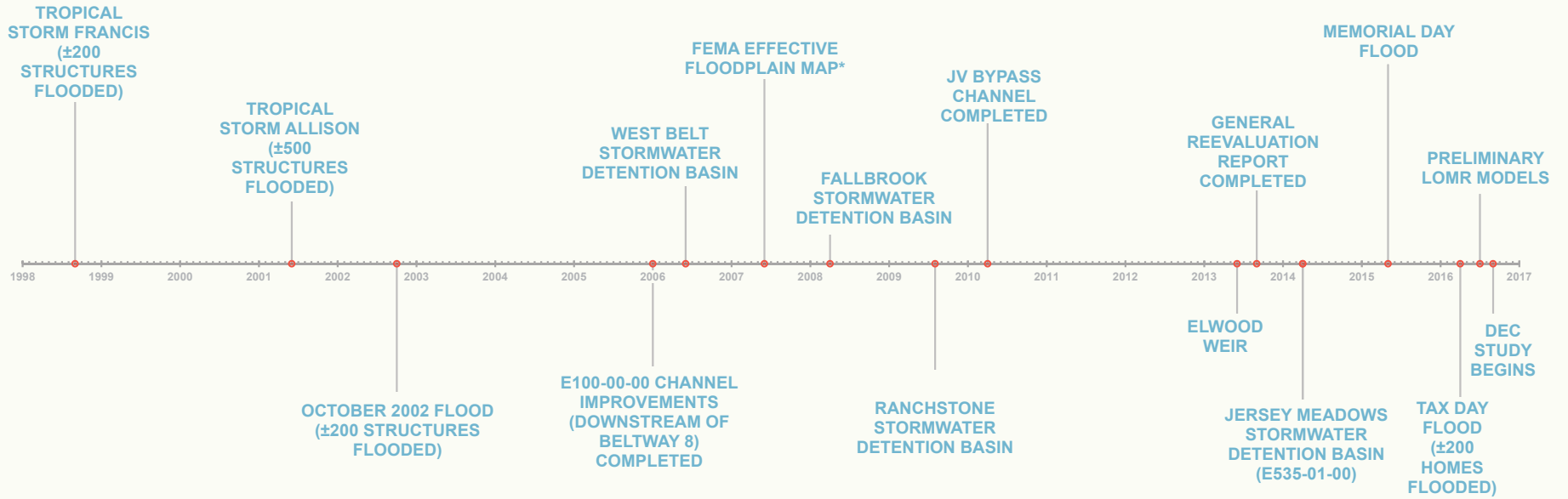
1 inch = 400 feet March 2017

Watershed Map



- Legend**
- Streams
 - TxDOT Roadways
 - Harris County
 - City of Jersey Village
 - HCFC Watersheds**
 - White Oak Bayou
 - All Other Watersheds

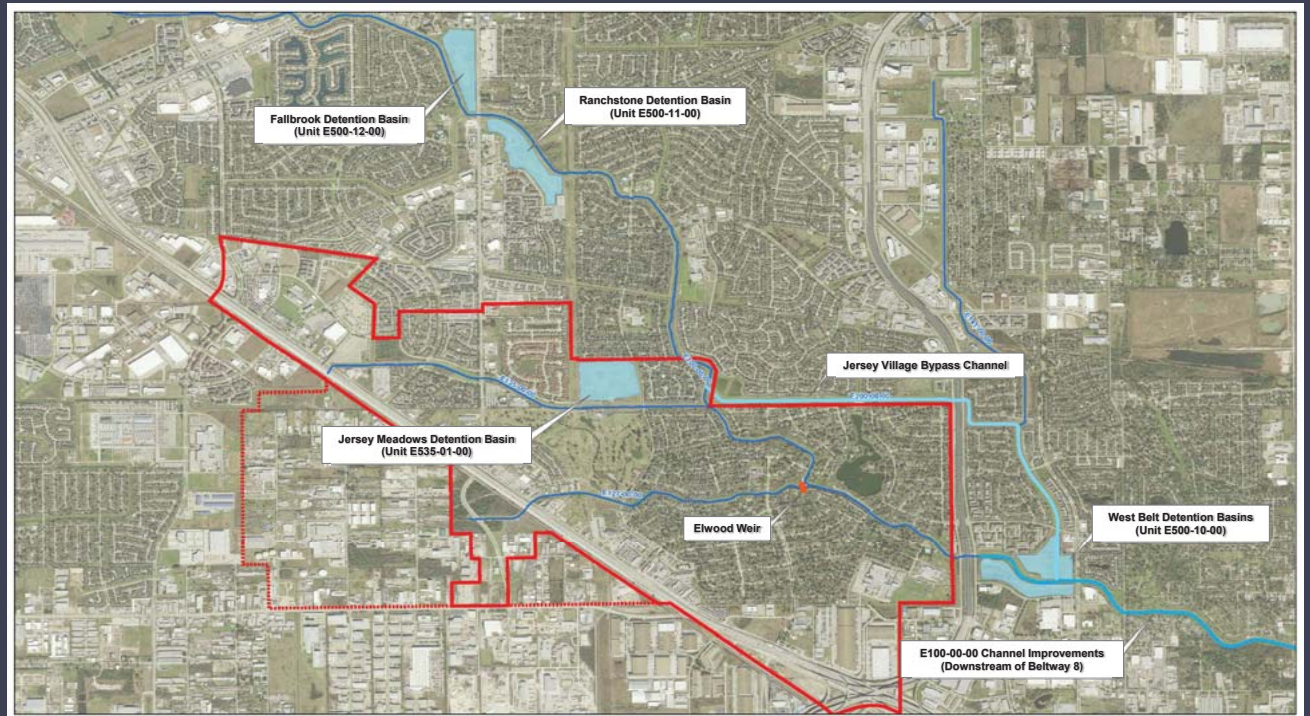
DANNENBAUM
Jersey Village
Long-term Flood Recovery Plan
1 inch = 7,000 feet
March 2017



*FEMA Effective Maps updated in 2014 but not reflective of HCFCD improvements completed

EVENT DETAILS

DATE	MILESTONE
9/11/1998	Tropical Storm Francis (±200 structures flooded)
6/9/2001	Tropical Storm Allison (±500 structures flooded)
10/1/2002	October 2002 Flood (±200 structures flooded)
1/1/2006	E100-00-00 Channel Improvements (Downstream of Beltway 8) Completed
6/20/2006	West Belt Stormwater Detention Basin (E500-10-00)
6/18/2007	FEMA Effective Floodplain Map*
4/18/2008	Fallbrook Stormwater Detention Basin (E500-12-00)
8/13/2009	Ranchstone Stormwater Detention Basin (E500-11-00)
4/1/2010	JV Bypass Channel Completed
6/1/2013	Elwood Weir
9/1/2013	General Reevaluation Report Completed
4/1/2014	Jersey Meadows Stormwater Detention Basin (E535-01-00)
4/1/2014	Jersey Meadows Stormwater Detention Basin (E535-01-00)
5/26/2015	Memorial Day Flood
4/16/2016	Tax Day Flood (±200 homes flooded)
7/1/2016	Preliminary LOMR Models
9/1/2016	DEC Study Begins



Appendix J
Meeting Photographs



The Phase 2 Public Meeting was held in an open-house style and took place on Thursday, March 23, 2017, at Jersey Village City Hall from 7:00 p.m. to 9:00 p.m.



Upon arrival, attendees were asked to complete an attendee card. Information provided from the attendee cards will be used to inform attendees of the study's progress.



After completing an attendee card, attendees were provided with a comment form, a “how to participate” handout, and a Phase 2 study newsletter.



Attendees were invited to view informational displays arranged around the public meeting. The display stations provided information about the planning process, Phase 2 study findings, and the proposed flood damage reduction methods.



The public meeting began with a brief verbal introduction from City of Jersey Village and Dannenbaum representatives and welcomed attendees to the public meeting, explained the purpose and format of the meeting, and introduced the study team members present.



Attendees were encouraged to view the approximately 18-minute-long Phase 2 informational video before interacting with the study team representatives available. The informational video informs the viewer about the study background, the Flood Recovery Planning Study, factors contributing to flooding in Jersey Village, the “Tax Day” floods, proposed flood damage reduction measures, and what to expect in Phase 3.



Study team representatives were available to discuss the study and answer study-related questions.



Attendees were encouraged to submit written comments at the public meeting. Following the public meeting, comments were also accepted via mail and through the feedback submittal tool on the study website at www.jvfloodrecovery.com.



Large-scale Structural Alternatives Maps were available at the public meeting for attendees to provide their input regarding the proposed structural alternatives, or any other input related to the study.



Attendees also had the opportunity to examine additional maps and exhibits at the public meeting including an Affected Homes vs Tax Day Structural Inventory Map, a Jersey Village Timeline Exhibit, a Level of Service Map, a Tax Day vs 100-year Floodplain Map, and a Watershed Map.