

Floodway Work Information



Todd Cave <todd@caveconsulting.com>

Technical Support Requested - Baytown - Market St - Street-Drainage Improvements

6 messages

Todd Cave <todd@texasenvironmentals.com>

Fri, Jul 11, 2025 at 6:28 AM

To: Justin Thornton <Justin.Thornton.GLO@recovery.texas.gov>

Justin,

It appears this project includes some sidewalk/street work on a bridge within a floodway.

As I understand it, bridgework is allowed in a floodway. Is that correct? If so, would the proposed work on the bridge be allowed?

Your guidance is greatly appreciated.

Todd Cave, President
(214) 307-4161
texasenvironmentals.com



----- Forwarded message -----

From: **Rydell, Edwin** <Edwin.Rydell@hdrinc.com>

Date: Thu, Jul 3, 2025 at 9:52 AM

Subject: Market Street

To: mmoran <mmoran@publicmgt.com>, Todd Cave <todd@texasenvironmentals.com>, joxsheer <joxsheer@publicmgt.com>

Attached is an exhibit showing what is being done in the floodplain and the amount of disturbance. There will be no work in the floodway, as all of the work at the existing bridge will be on top of the bridge and no work under the bridge in the creek.

Please let me know if you have any questions or need additional information.

Thanks,

Edwin Rydell, P.E.

Senior Project Manager

HDR

4828 Loop Central Drive, Suite 700
Houston, TX 77081
D 713.576.3518 M 713.254.5099
edwin.rydell@hdrinc.com

hdrinc.com/follow-us

 **Floodplain Work.pdf**
829K

Justin Thornton <Justin.Thornton.GLO@recovery.texas.gov>

Fri, Jul 11, 2025 at 10

To: Todd Cave <todd@texasenvironmentals.com>

Cc: GLO Environmental <env.reviews@recovery.texas.gov>

Hey Todd,

If the work is occurring *on* the bridge and the bridge is elevated above the floodway, then there shouldnt be an issue.

Reference the guidance from HUD CPD Notice CPD-17-013.

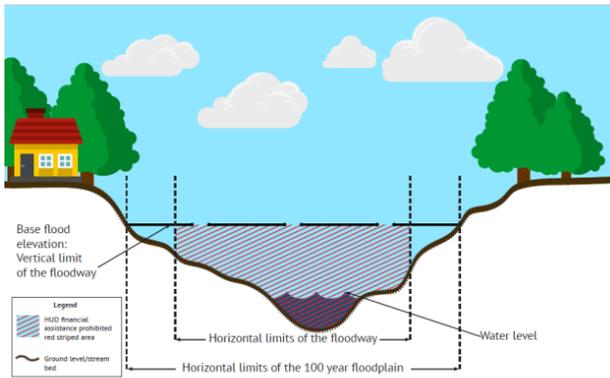


Figure 1

I hope this helps!



Justin Thornton, GIT, CFM
Environmental Protection Specialist | Environmental Oversight
Community Development & Revitalization
 Texas General Land Office, Commissioner Dawn Buckingham, M.D.
 (512) 750-9110 | glo.texas.gov/disaster-recovery

*Reminder that all HUD 7015.15 RROF and Environmental Certification requests must be submitted through TIGR. Requests for technical assistance should be sent to env.reviews@recovery.texas.gov resource specific environmental guidance, please refer to [GLO CDR Environmental Toolkit](#).

From: Todd Cave <todd@texasenvironmentals.com>
Sent: Friday, July 11, 2025 5:28 AM
To: Justin Thornton <Justin.Thornton.GLO@recovery.texas.gov>
Subject: [EXTERNAL] Technical Support Requested - Baytown - Market St - Street-Drainage Improvements

[Quoted text hidden]

Todd Cave <todd@texasenvironmentals.com>
 To: Mmoran <mmoran@publicmgt.com>

Mon, Jul 14, 2025 at 12:50 PM

Miriam,

Looks like the floodway portion of the project is allowed (See below). Please let me know if you concur:
 [Quoted text hidden]

Miriam Moran <mmoran@publicmgt.com>
 To: Todd Cave <todd@texasenvironmentals.com>, Jordan Oxsheer <joxsheer@publicmgt.com>

Mon, Jul 14, 2025 at 12:53 PM

So all work on top of the bridge is fine. Just nothing underneath.

Please confirm.
 [Quoted text hidden]

Jordan Oxsheer <joxsheer@publicmgt.com>
 To: Miriam Moran <mmoran@publicmgt.com>
 Cc: Todd Cave <todd@texasenvironmentals.com>

Mon, Jul 14, 2025 at 12:58 PM

I believe the engineer confirmed that we're only doing work on top of the bridge, so I think we're in the clear!
 [Quoted text hidden]

--



Jordan Oxsheer
 Environmental Specialist, Public Management, Inc.
 281-592-0439 | joxsheer@publicmgt.com
 15355 Vantage Pkwy W., Ste 360
 Houston, TX 77032
www.publicmgt.com
 

Todd Cave <todd@texasenvironmentals.com>
 To: Jordan Oxsheer <joxsheer@publicmgt.com>
 Cc: Miriam Moran <mmoran@publicmgt.com>

Mon, Jul 14, 2025 at 1:02 PM

Based on what Justin is saying, it appears that the work is on a bridge and occurring above the floodway which is allowable.

Todd Cave, President
 (214) 307-4161
texasenvironmentals.com



7/24/25, 7:58 AM

Cave Consulting LLC Mail - Technical Support Requested - Baytown - Market St - Street-Drainage Improvements

[Quoted text hidden]



Todd Cave <todd@caveconsulting.com>

Technical Support Requested - Baytown - Market St - Street-Drainage Improvements - Harris County

2 messages

Todd Cave <todd@texasenvironmentals.com>

Tue, Jun 10, 2025 at 9:46 AM

To: Justin Thornton <Justin.Thornton.GLO@recovery.texas.gov>

Justin,

Can you please let me know if you believe I am interpreting this correctly?

Based on the criteria required to be considered a "Critical Action", I do not believe this project qualifies.

Here is the Project Description and Map for your reference.

Appreciate your guidance.

Todd Cave, President
(214) 307-4161
texasenvironmentals.com



Justin Thornton <Justin.Thornton.GLO@recovery.texas.gov>

Thu, Jun 12, 2025 at 10

To: Todd Cave <todd@texasenvironmentals.com>

Cc: GLO Environmental <env.reviews@recovery.texas.gov>

Hey Todd,

A Critical action, as defined in 24 CFR 55.2(b)(3)(i), is any activity for which even a slight chance of flooding would be too great, because such flooding might result in loss of life, injury persons, or damage to property. The following project description was provided:

"A 5' sidewalk will be placed along the north side of the road and a 12' shared use path will be placed along the south side of the roadway. Four signalized intersections will also be removed and replaced with roundabouts. The two main areas of focus for drainage improvements were determined to be Channel 0101-0000 crossing and the intersection of Market Street and Minnesota Street. At HCFCD Outfall Channel 0101-00 00, the existing roadway is below the 100-year flood elevation. The proposed roadway is being raised approximately 7' in this area to have it above the 100-year flood elevation. For the intersection with Minnesota Street, the drainage storm sewer system is being upgraded by increasing the size of the storm sewer lines. With the drainage improvements, the project will not cause any adverse impact to the receiving drainage systems."

This project description does not appear to meet the criteria for a critical action; however, the responsible entity must make the final determination.

I hope this helps!



Justin Thornton, GIT, CFM
Environmental Protection Specialist | Environmental Oversight
Community Development & Revitalization
Texas General Land Office, Commissioner Dawn Buckingham, M.D.
(512) 750-9110 | glo.texas.gov/disaster-recovery

*Reminder that all HUD 7015.15 RROF and Environmental Certification requests must be submitted through TIGR. Requests for technical assistance should be sent to env.reviews@recovery.texas.gov resource specific environmental guidance, please refer to GLO CDR Environmental Toolkit.

From: Todd Cave <todd@texasenvironmentals.com>

Sent: Tuesday, June 10, 2025 8:46 AM

To: Justin Thornton <Justin.Thornton.GLO@recovery.texas.gov>

Subject: [EXTERNAL] Technical Support Requested - Baytown - Market St - Street-Drainage Improvements - Harris County

[Quoted text hidden]

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Historic Products (1125) 



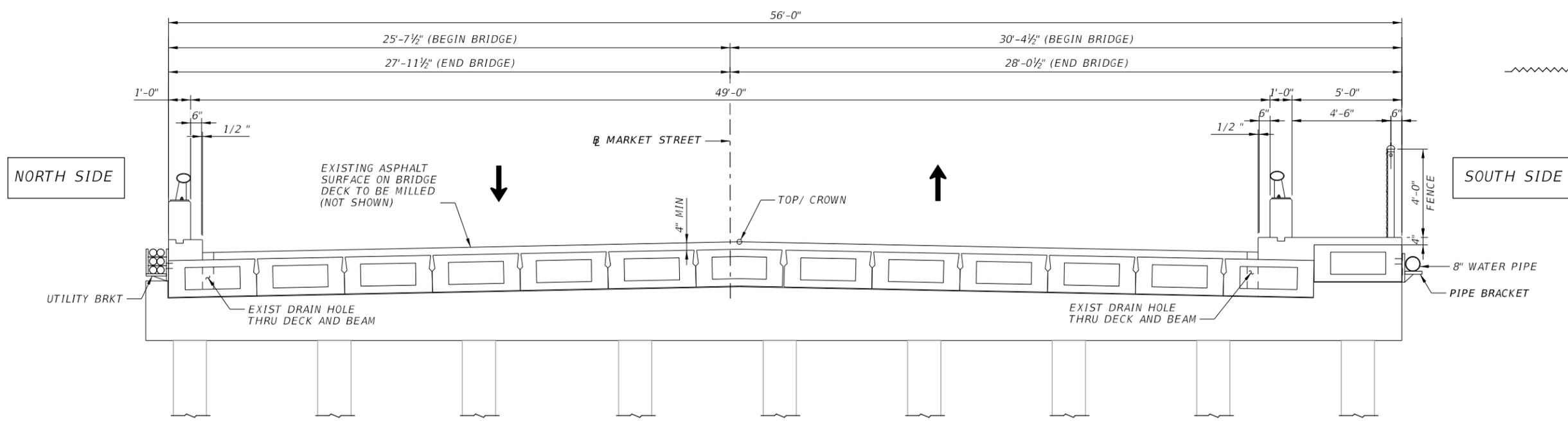
Flood Risk Products (19) 



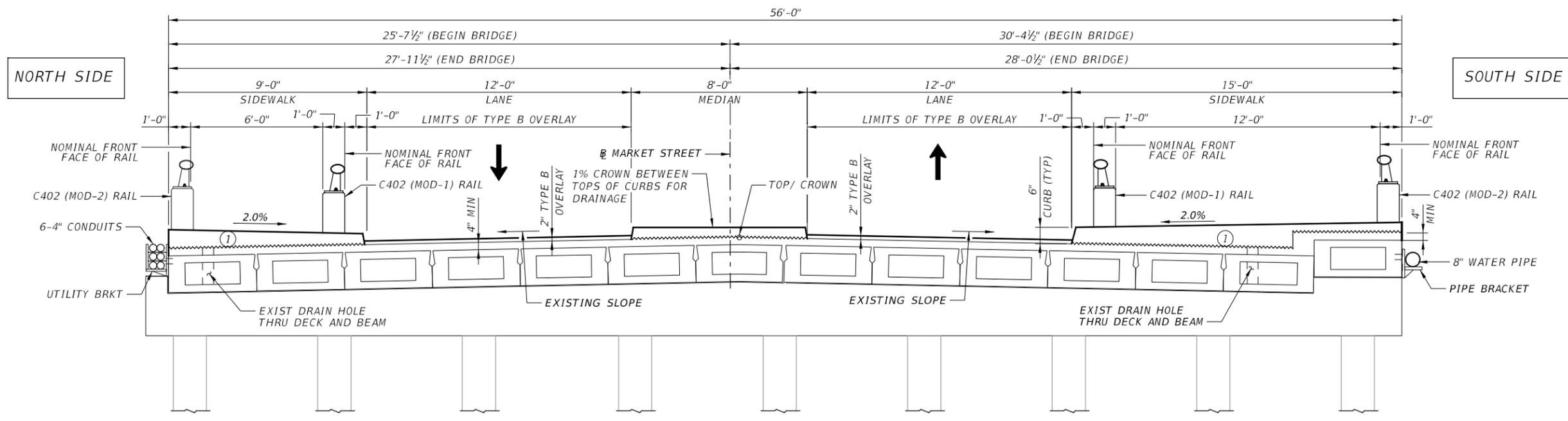
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EXISTING TYPICAL SECTION
LOOKING UPSTATION



PROPOSED TYPICAL SECTION
LOOKING UPSTATION

LEGEND
 CONCRETE SURFACE INTENTIONALLY ROUGHENED TO AN AMPLITUDE OF 0.25 IN AND BLAST CLEANED

① DO NOT ROUGHEN THE 1'-0" WIDE STRIP OF BRIDGE DECK WITHIN THE SIDEWALK DRAIN SLOT. SEE THE SLAB DETAILS SHEET FOR SIDEWALK DRAIN LOCATIONS.

PLOT DRIVER: TXDOT_PDF_BW.plt
 USER: RVALSOWA
 DATE: 7/26/2023
 TIME: 2:24:32 PM
 SCALE: 1"=40'
 FILE: \$FILEAS\$

NO.	REVISIONS	DATE	NAME

HARRIS COUNTY
ENGINEERING DEPARTMENT

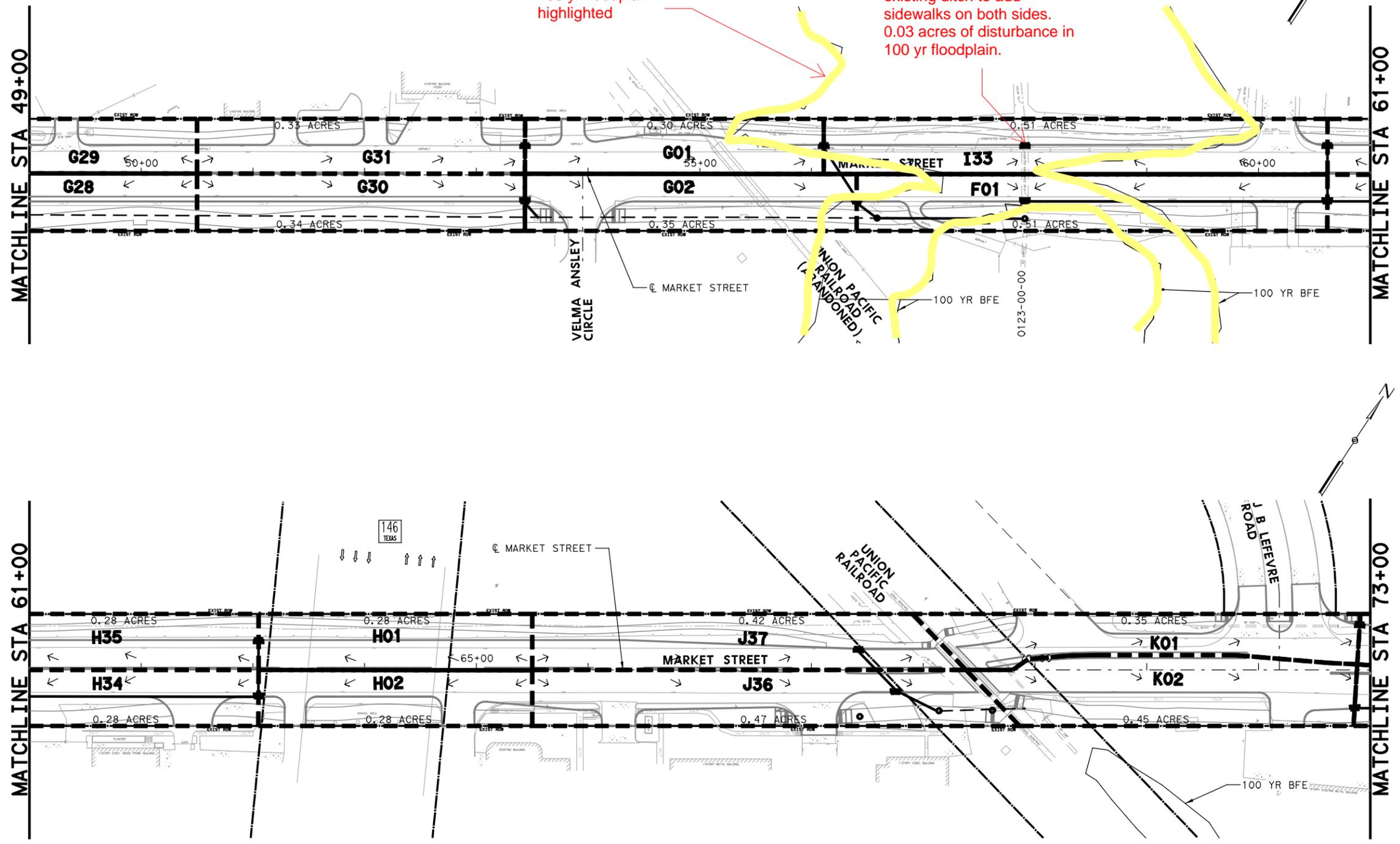


HDR
 HDR ENGINEERING, INC.
 4828 LOOP CENTRAL DR, SUITE 800
 HOUSTON, TX 77081
 TBPE FIRM REG NO. F-754



PROJECT TITLE: MARKET STREET	
SHEET DESCRIPTION: TYPICAL SECTIONS	
DRAWN BY: RA	DATE: 7/26/2023
CK'D BY: EDB	SCALE: 1"=40'
SHEET NO: 185	

PLOT DRIVER: TXDOT_PDF_BW.plt
 USER: ERYDELL DATE: 10/2/2023 TIME: 10:11:55 AM SCALE: 1/400
 FILE: 5825_HC_DRAINAGE_AREA_MAP_03.dgn

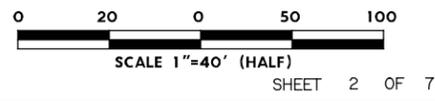


100 yr floodplain highlighted

Extending existing culvert both directions and adding a headwall on the end. Filling in a portion of the existing ditch to add sidewalks on both sides. 0.03 acres of disturbance in 100 yr floodplain.

LEGEND

- 10.22 ac. DRAINAGE AREA
- ← FLOW DIRECTION
- R. O. W.
- - - DRAINAGE AREA BOUNDARY
- A-1 PROPOSED B-B INLET
- A-5 PROPOSED MANHOLE/MH ID
- 36" PROPOSED STORM SEWER & SIZE
- 66" EXISTING STORM SEWER
- EXISTING INLET/MANHOLE
- 11.25 CUMULATIVE DRAINAGE AREA (ACRES)
- 14.90 CUMULATIVE FLOWS (CFS) 2-YEAR STORM
- WETLAND AREA



NO.	REVISIONS	DATE	NAME

HARRIS COUNTY
 ENGINEERING DEPARTMENT



HDR

HDR ENGINEERING, INC.
 4828 LOOP CENTRAL DR, SUITE 800
 HOUSTON, TX 77081
 TBPE FIRM REG NO. F-754

10/2/2023

PROJECT TITLE:		MARKET STREET	
SHEET DESCRIPTION:		DRAINAGE AREA MAP	
DRAWN BY:	BKT	DATE:	10/2/2023
CK'D BY:	ERR	SHEET NO:	115
SCALE:		SCALE: 1" = 100'	

100 yr floodplain highlighted in yellow, 500 yr highlighted in blue

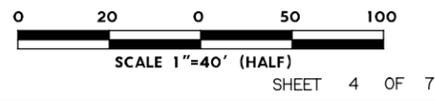
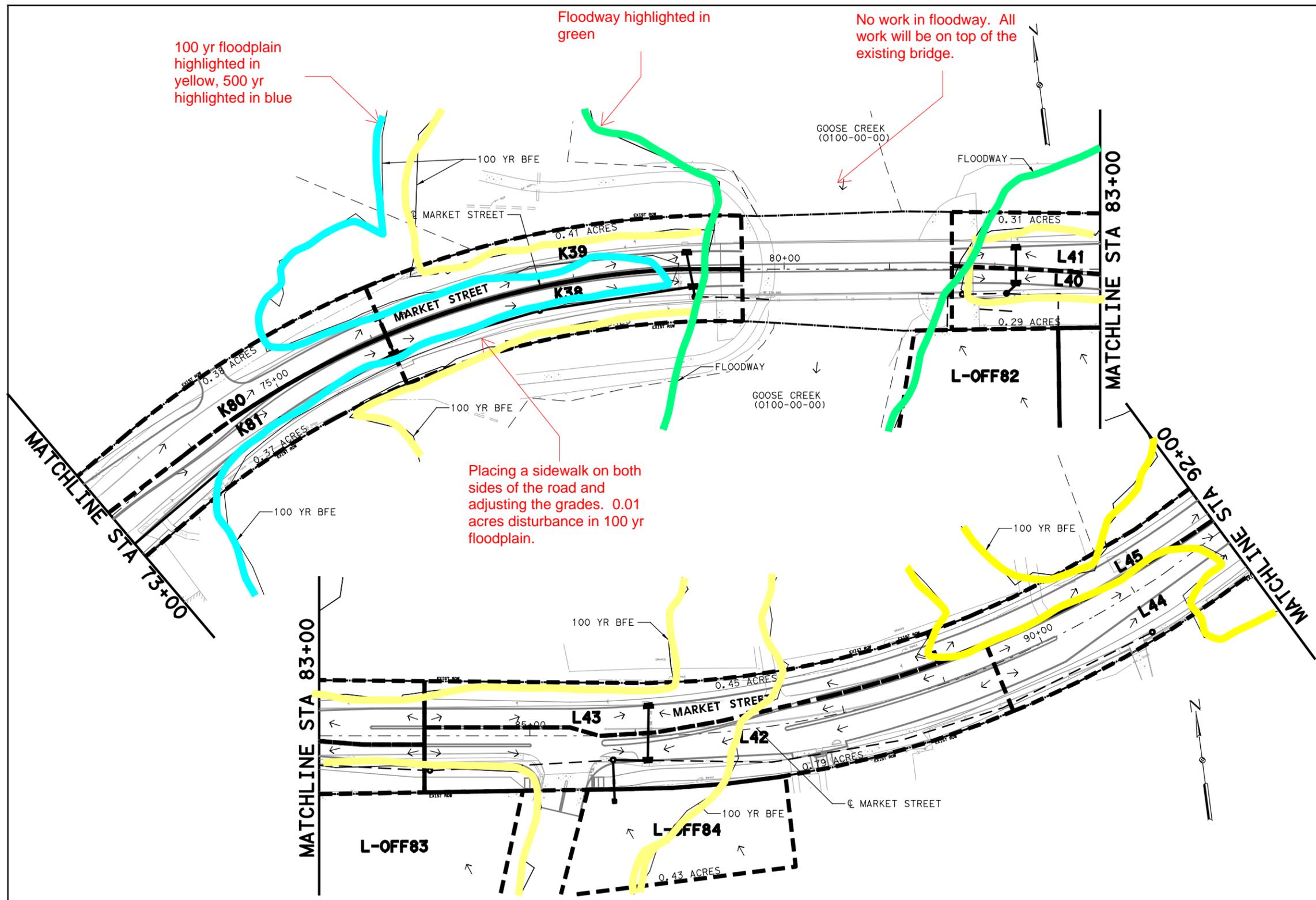
Floodway highlighted in green

No work in floodway. All work will be on top of the existing bridge.

Placing a sidewalk on both sides of the road and adjusting the grades. 0.01 acres disturbance in 100 yr floodplain.

LEGEND

- 10.22 ac. DRAINAGE AREA
- ← FLOW DIRECTION
- R. O. W.
- - - DRAINAGE AREA BOUNDARY
- A-1 PROPOSED B-B INLET
- A-5 PROPOSED MANHOLE/MH ID
- 36" PROPOSED STORM SEWER & SIZE
- 66" EXISTING STORM SEWER
- EXISTING INLET/MANHOLE
- 11.25 CUMMULATIVE DRAINAGE AREA (ACRES)
- 14.90 CUMMULATIVE FLOWS (CFS) 2-YEAR STORM
- WETLAND AREA



PLOT DRIVER: TXDOT_PDF_BW.plt
 USER: ERYDELL DATE: 10/2/2023 TIME: 10:11:59 AM SCALE: 1:100
 FILE: 5825_HC_DRAINAGE AREA MAP_04.dgn

NO.	REVISIONS	DATE	NAME

HARRIS COUNTY
ENGINEERING DEPARTMENT



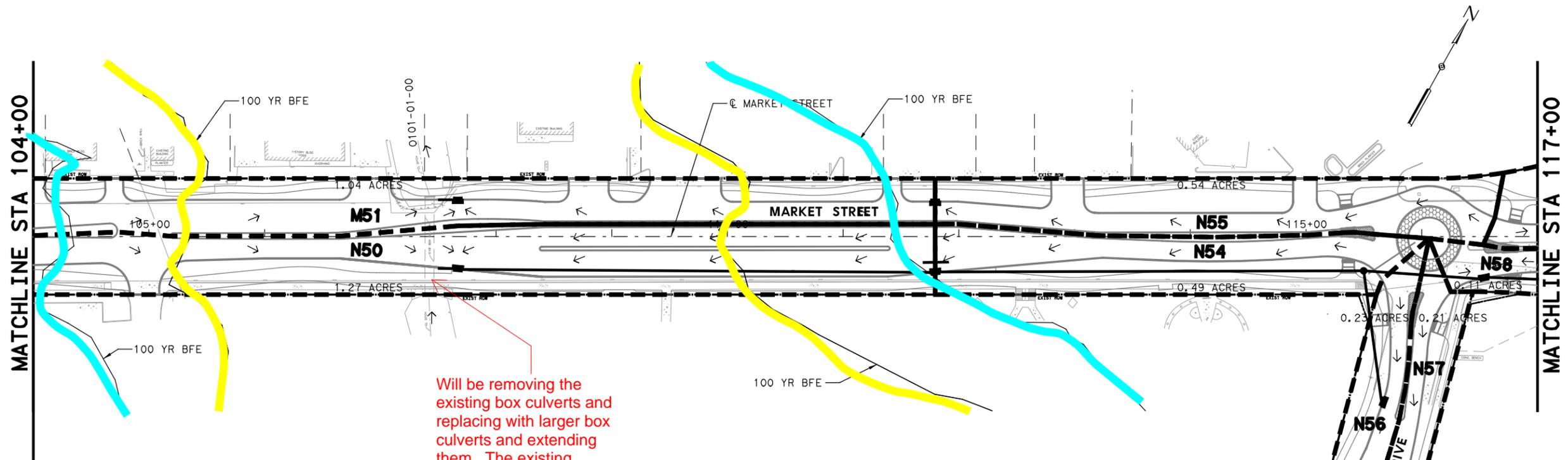
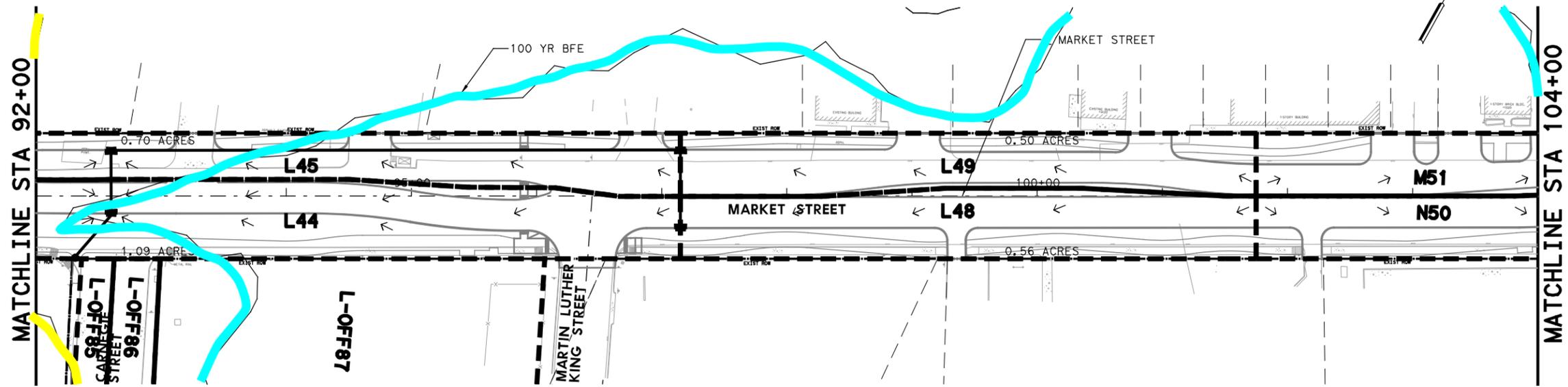
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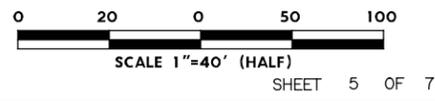
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SHEET DESCRIPTION:		DRAINAGE AREA MAP	
DRAWN BY:	BKT	DATE:	10/2/2023
CK'D BY:	ERR	SHEET NO:	116
SCALE:		SCALE: 1" = 100'	

LEGEND

- 10.22 ac. DRAINAGE AREA
- ← FLOW DIRECTION
- R. O. W.
- - - DRAINAGE AREA BOUNDARY
- A-1 PROPOSED B-B INLET
- A-5 PROPOSED MANHOLE/MH ID
- 36" PROPOSED STORM SEWER & SIZE
- 66" EXISTING STORM SEWER
- EXISTING INLET/MANHOLE
- 11.25 CUMMULATIVE DRAINAGE AREA (ACRES)
- 14.90 CUMMULATIVE FLOWS (CFS) 2-YEAR STORM
- WETLAND AREA



Will be removing the existing box culverts and replacing with larger box culverts and extending them. The existing roadway will be raised and sidewalks placed on both sides. 0.02 acres of disturbance.



PLOT DRIVER: TXDOT_PDF_BW.plt
 USER: ERYDELL DATE: 10/2/2023 TIME: 10:20:06 AM SCALE: 1/40
 FILE: 5825_HC_DRAINAGE AREA MAP_05.dgn

NO.	REVISIONS	DATE	NAME

HARRIS COUNTY
ENGINEERING DEPARTMENT



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4828 LOOP CENTRAL DR, SUITE 800
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TBPE FIRM REG NO. F-754



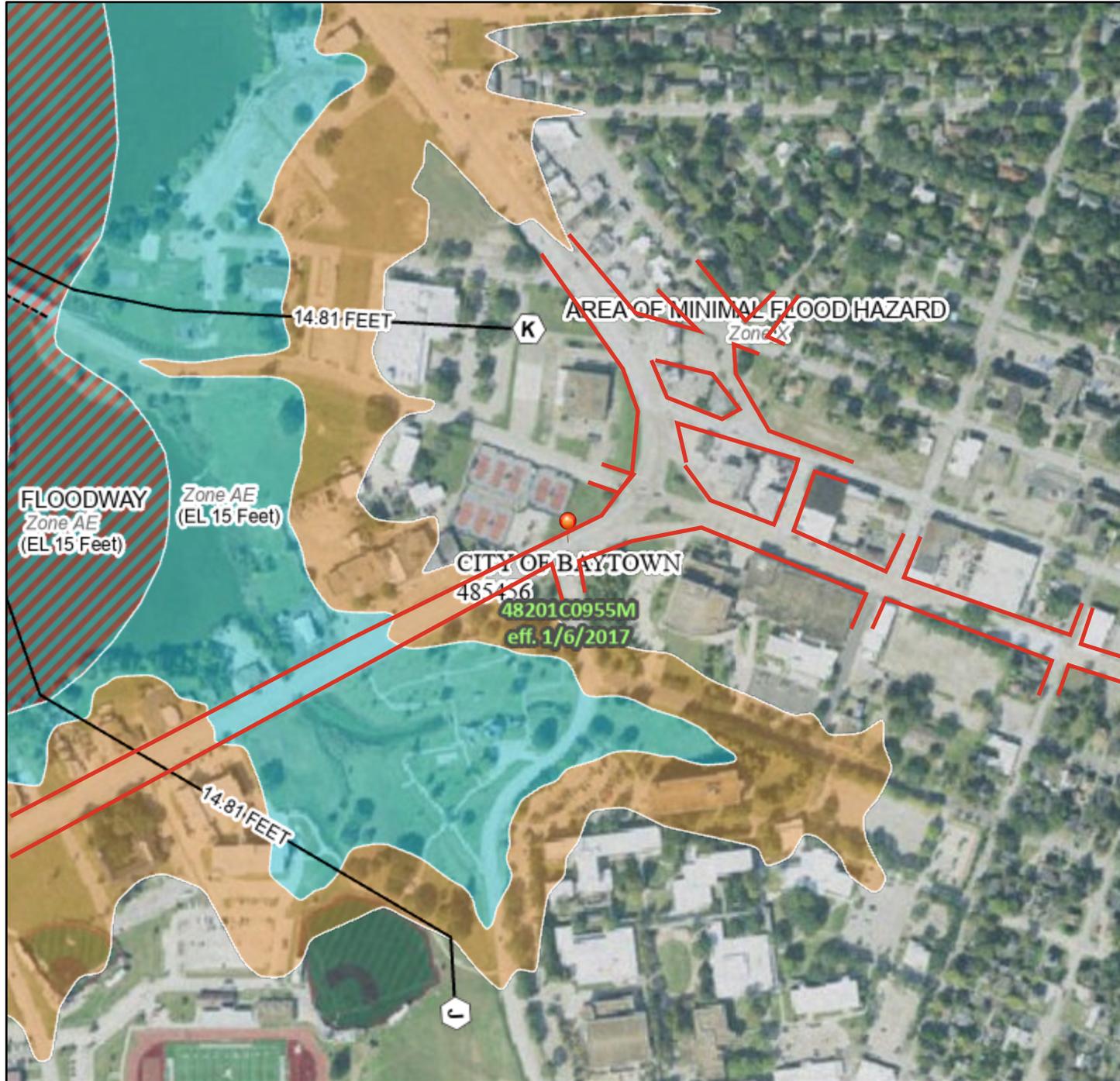
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	SHEET DESCRIPTION:	DRAINAGE AREA MAP
DRAWN BY: BKT	DATE:	10/2/2023
CK'D BY: ERR	SCALE:	SCALE: 1"=100'
	SHEET NO:	117

Flood Maps

National Flood Hazard Layer FIRMMette



94°59'1"W 29°44'22"N



1:6,000

94°58'23"W 29°43'50"N

Basemap Imagery Source: USGS National Map 2023

Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS	
	Without Base Flood Elevation (BFE) <i>Zone A, V, A99</i>
	With BFE or Depth <i>Zone AE, AO, AH, VE, AR</i>
	Regulatory Floodway

OTHER AREAS OF FLOOD HAZARD	
	0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile <i>Zone X</i>
	Future Conditions 1% Annual Chance Flood Hazard <i>Zone X</i>
	Area with Reduced Flood Risk due to Levee. See Notes. <i>Zone X</i>
	Area with Flood Risk due to Levee <i>Zone D</i>

OTHER AREAS	
	NO SCREEN Area of Minimal Flood Hazard <i>Zone X</i>
	Effective LOMRs
	Area of Undetermined Flood Hazard <i>Zone D</i>

GENERAL STRUCTURES	
	Channel, Culvert, or Storm Sewer
	Levee, Dike, or Floodwall

OTHER FEATURES	
	20.2 Cross Sections with 1% Annual Chance Water Surface Elevation
	17.5 Coastal Transect
	Base Flood Elevation Line (BFE)
	Limit of Study
	Jurisdiction Boundary
	Coastal Transect Baseline
	Profile Baseline
	Hydrographic Feature

MAP PANELS	
	Digital Data Available
	No Digital Data Available
	Unmapped

The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.



This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

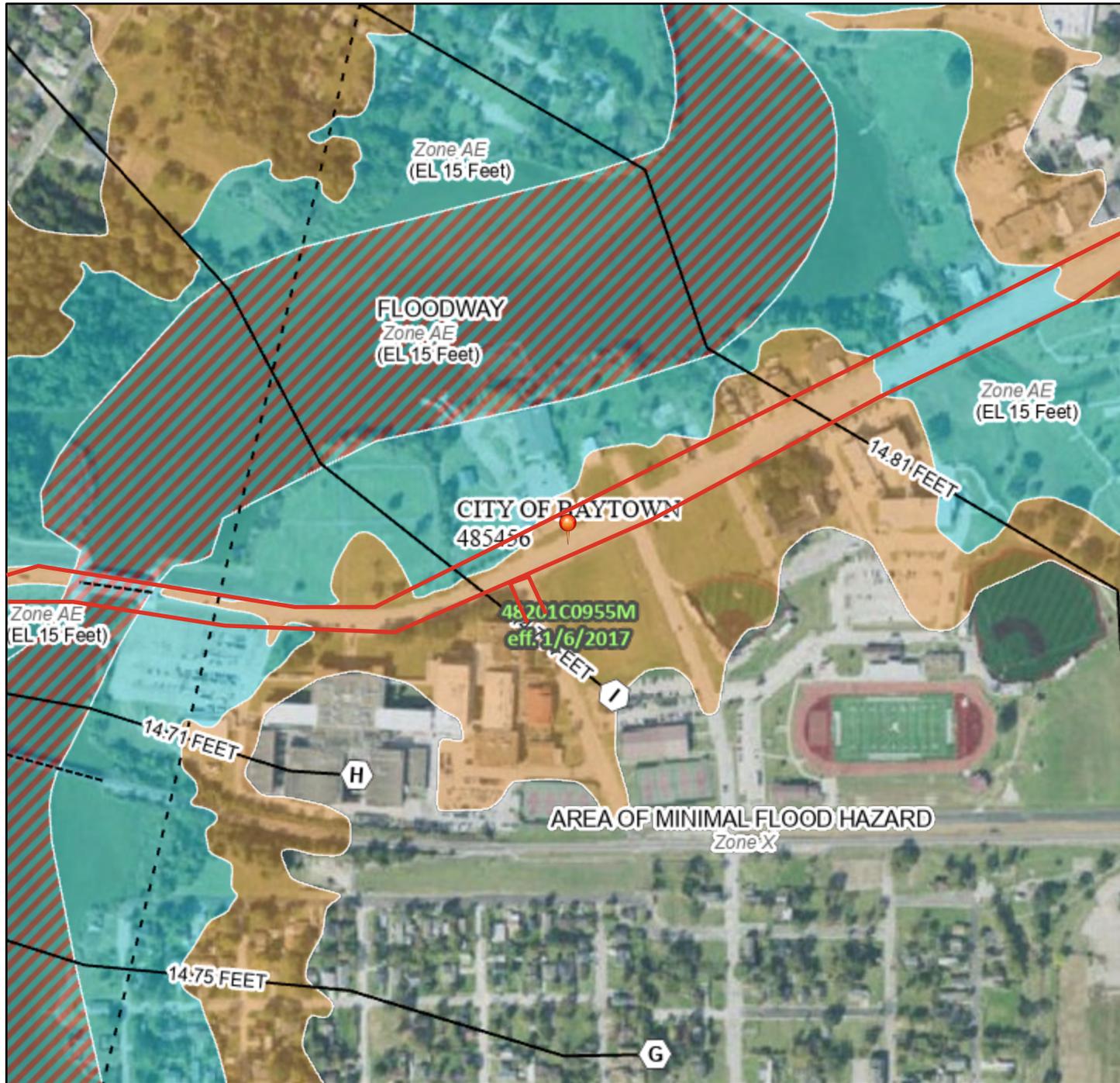
The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on **5/8/2025 at 3:14 PM** and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

National Flood Hazard Layer FIRMMette



94°59'23"W 29°44'11"N



1:6,000

94°58'46"W 29°43'40"N

Basemap Imagery Source: USGS National Map 2023

Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) Zone A, V, A99
		With BFE or Depth Zone AE, AO, AH, VE, AR
		Regulatory Floodway
OTHER AREAS OF FLOOD HAZARD		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
		Future Conditions 1% Annual Chance Flood Hazard Zone X
		Area with Reduced Flood Risk due to Levee. See Notes. Zone X
		Area with Flood Risk due to Levee Zone D
OTHER AREAS		NO SCREEN Area of Minimal Flood Hazard Zone X
		Effective LOMRs
GENERAL STRUCTURES		Area of Undetermined Flood Hazard Zone D
		Channel, Culvert, or Storm Sewer
OTHER FEATURES		Levee, Dike, or Floodwall
		20.2 Cross Sections with 1% Annual Chance Water Surface Elevation
MAP PANELS		17.5 Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
		Coastal Transect Baseline
		Profile Baseline
		Hydrographic Feature
		Digital Data Available
		No Digital Data Available
		Unmapped
		The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

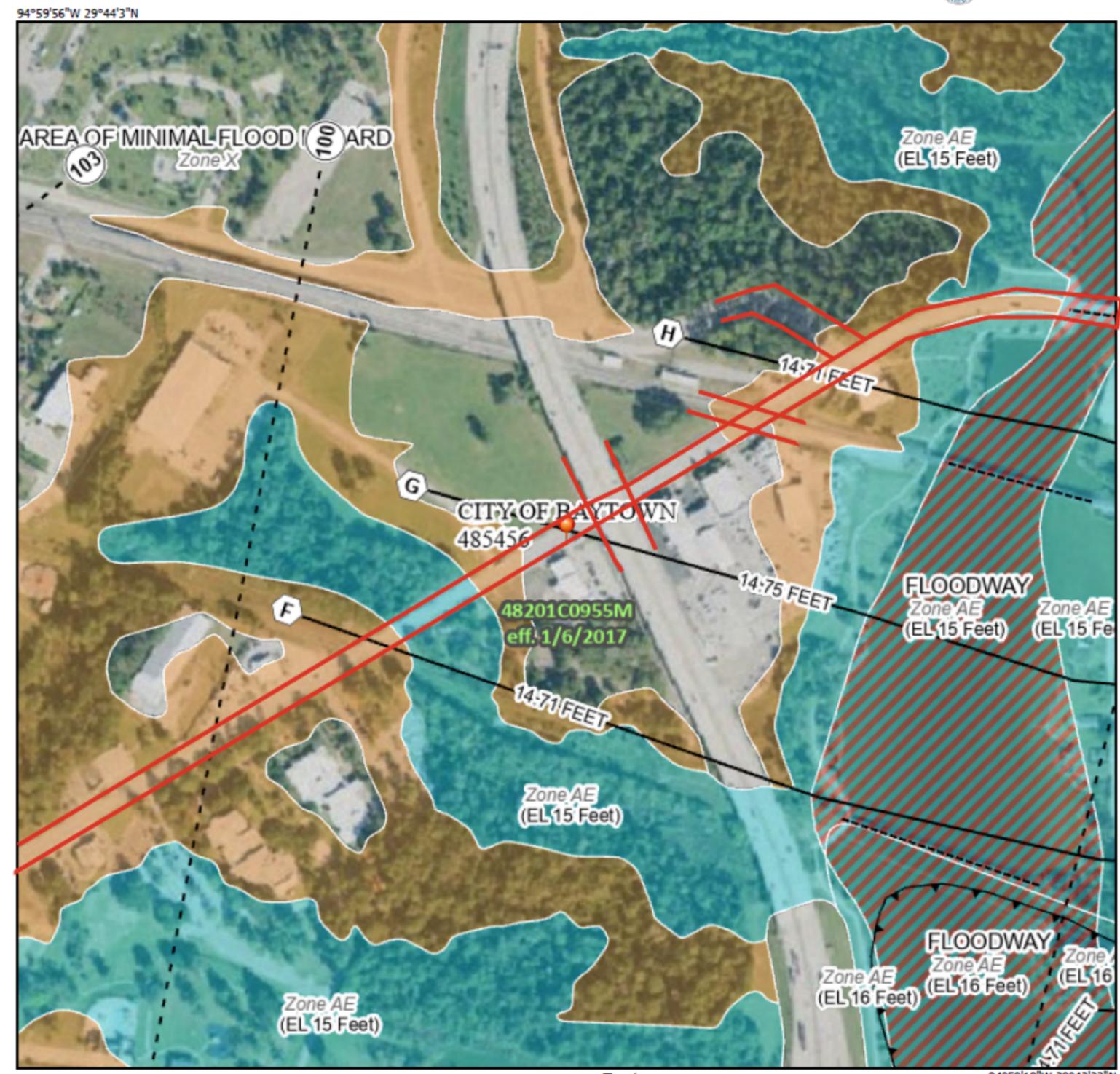


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National Flood Hazard Layer FIRMMette



Legend

- SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT
- SPECIAL FLOOD HAZARD AREAS**
 - Without Base Flood Elevation (BFE) Zone A, V, A99
 - With BFE or Depth Zone AE, AO, AH, VE, AR
 - Regulatory Floodway
 - OTHER AREAS OF FLOOD HAZARD**
 - 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
 - Future Conditions 1% Annual chance Flood Hazard Zone X
 - Area with Reduced Flood Risk due to Levee. See Notes. Zone X
 - Area with Flood Risk due to Levee Zone D
 - OTHER AREAS**
 - NO SCREEN Area of Minimal Flood Hazard Zone X
 - Effective LOMRs
 - Area of Undetermined Flood Hazard Zone D
 - GENERAL STRUCTURES**
 - Channel, culvert, or Storm Sewer
 - Levee, Dike, or Floodwall
 - OTHER FEATURES**
 - Cross Sections with 1% Annual chance Water Surface Elevation (e.g., 20.2, 17.5)
 - Coastal Transect
 - Base Flood Elevation Line (BFE)
 - Limit of Study
 - Jurisdiction Boundary
 - coastal Transect Baseline
 - Profile Baseline
 - Hydrographic Feature
 - MAP PANELS**
 - Digital Data Available
 - No Digital Data Available
 - Unmapped
- The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

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National Flood Hazard Layer FIRMette



Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

- SPECIAL FLOOD HAZARD AREAS**
 - Without Base Flood Elevation (BFE) Zone A, V, A99
 - With BFE or Depth Zone AE, AO, AH, VE, AR
 - Regulatory Floodway
- OTHER AREAS OF FLOOD HAZARD**
 - 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
 - Future Conditions 1% Annual chance Flood Hazard Zone X
 - Area with Reduced Flood Risk due to Levee. See Notes. Zone X
 - Area with Flood Risk due to Levee Zone D
- OTHER AREAS**
 - NO SCREEN Area of Minimal Flood Hazard Zone X
 - Effective LOMRs
 - Area of Undetermined Flood Hazard Zone D
- GENERAL STRUCTURES**
 - Channel, culvert, or Storm Sewer
 - Levee, Dike, or Floodwall
- OTHER FEATURES**
 - 20.2 Cross Sections with 1% Annual chance Water Surface Elevation
 - 17.5 Cross Sections with 1% Annual chance Water Surface Elevation
 - Coastal Transect
 - Base Flood Elevation Line (BFE)
 - Limit of Study
 - Jurisdiction Boundary
 - Coastal Transect Baseline
 - Profile Baseline
 - Hydrographic Feature
- MAP PANELS**
 - Digital Data Available
 - No Digital Data Available
 - Unmapped

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

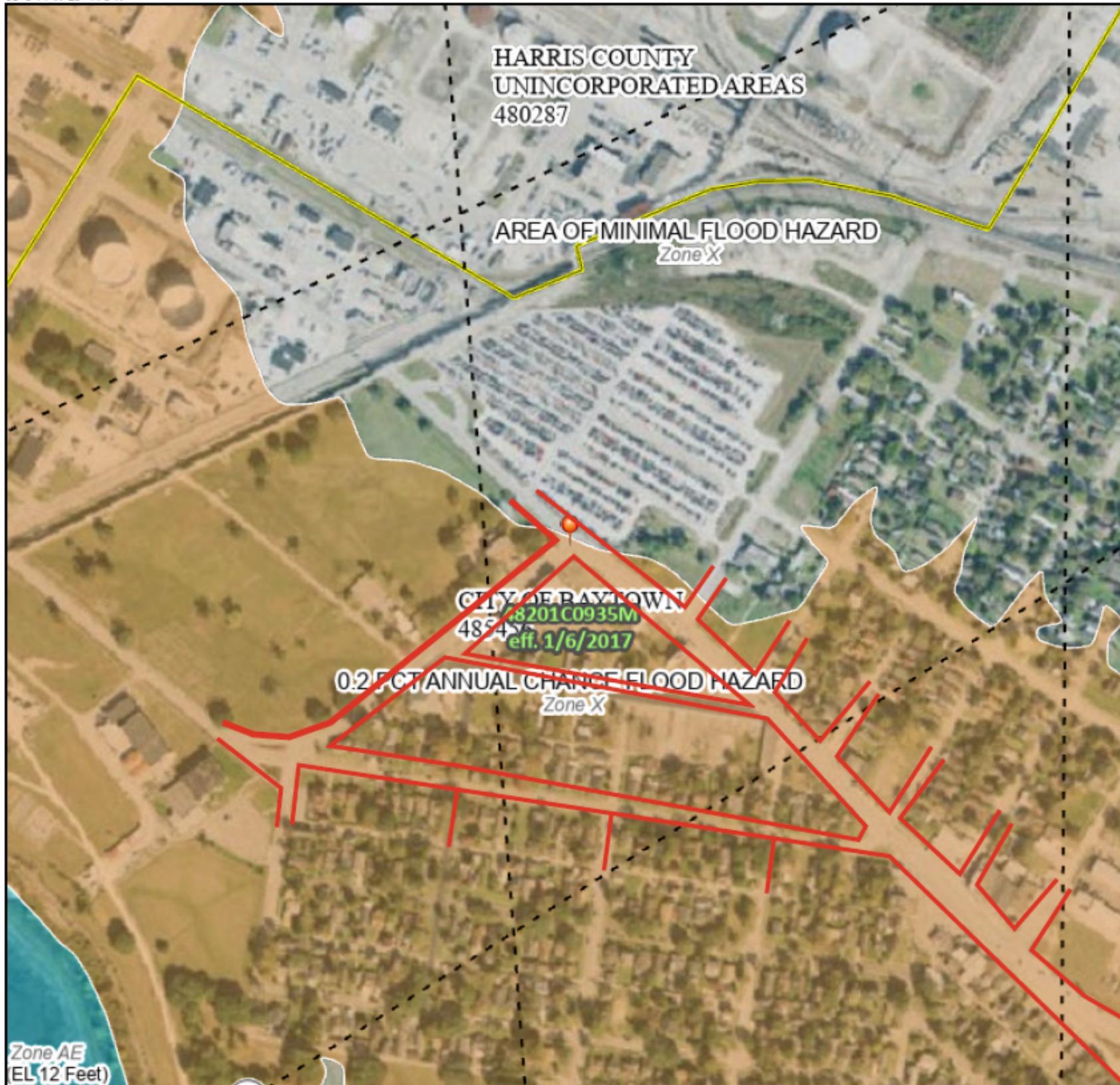
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National Flood Hazard Layer FIRMette



95°0'44"W 29°44'8"N



Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) Zone A, V, A99
		With BFE or Depth Zone AE, AO, AH, VE, AR
		Regulatory Floodway

OTHER AREAS OF FLOOD HAZARD		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
		Future Conditions 1% Annual Chance Flood Hazard Zone X
		Area with Reduced Flood Risk due to Levee. See Notes. Zone X
		Area with Flood Risk due to Levee Zone D

OTHER AREAS		NO SCREEN Area of Minimal Flood Hazard Zone X
		Effective LOMRs
GENERAL STRUCTURES		Area of Undetermined Flood Hazard Zone D
		Channel, culvert, or Storm Sewer
		Levee, Dike, or Floodwall

OTHER FEATURES		20.2 17.5	Cross Sections with 1% Annual Chance Water Surface Elevation
			Coastal Transect
			Base Flood Elevation Line (BFE)
			Limit of Study
			Jurisdiction Boundary
			Coastal Transect Baseline
			Profile Baseline
			Hydrographic Feature

MAP PANELS		Digital Data Available
		No Digital Data Available
		Unmapped
		The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

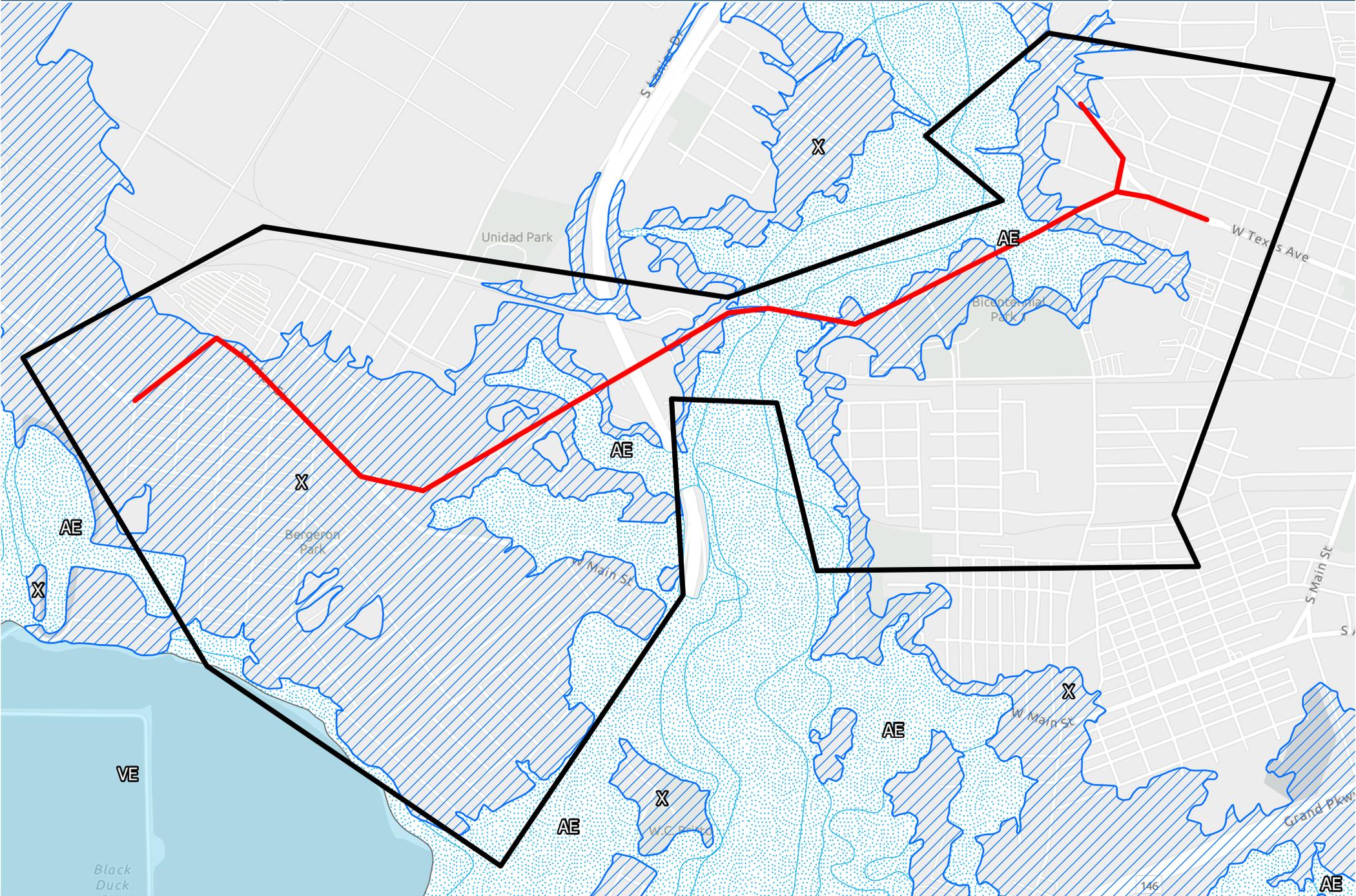


This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 5/8/2025 at 2:28 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

Baytown Market Street - FEMA Flood Zones Map





FFRMS No Data Exists Report

Report generated by the Federal Flood Standard Support Tool on Thu May 08 2025. For more information on FFRMS and the data, visit <https://floodstandard.climate.gov>.

Summary

Based on the submitted footprint, there is currently no data in this tool to support a FFRMS floodplain determination. Data may exist for this location but may not be in a digital format suitable for analysis required for this tool. See below for other data options. For additional assistance, please contact FEMA-FFRMS-SUPPORT-REQUEST@fema.dhs.gov.

Proposed Action Details

Latitude and Longitude (centroid of polygon): X: -94.988161 Y: 29.730257

Service criticality: **Non-critical** Service Life: **Through 2050**

Considerations at this location

- Informational – The 0 foot FVA inundation shows that this area decreased in water surface extent when compared to effective 1 percent flood hazard area.
- Informational – The 0 foot FVA inundation shows that this area increased in water surface extent when compared to effective 1 percent flood hazard area.

Nonexistent or Inadequate Federal Flood Standard Support Tool Data

No FFSST Data: In situations where the Federal Flood Standard Support Tool has no data, or the user has reason to question the Federal Flood Standard Support Tool data, users may need to rely on other resources, including flood hazard data from other federal sources or from state, tribal, or local government sources to identify the FFRMS floodplain.

No Alternative Data Sources: If there is no alternative data source (federal, state, local), users may need to engage in location-specific engineering analysis of the flood risk. If an action is in the FFRMS floodplain and locating it there is the only practicable alternative, then the services of a professional engineer, architect, or other licensed design professional may be needed to determine how to minimize the impacts of flood and make the action resilient (e.g., elevation, floodproofing and/or nature-based solutions), especially when dealing with critical actions.

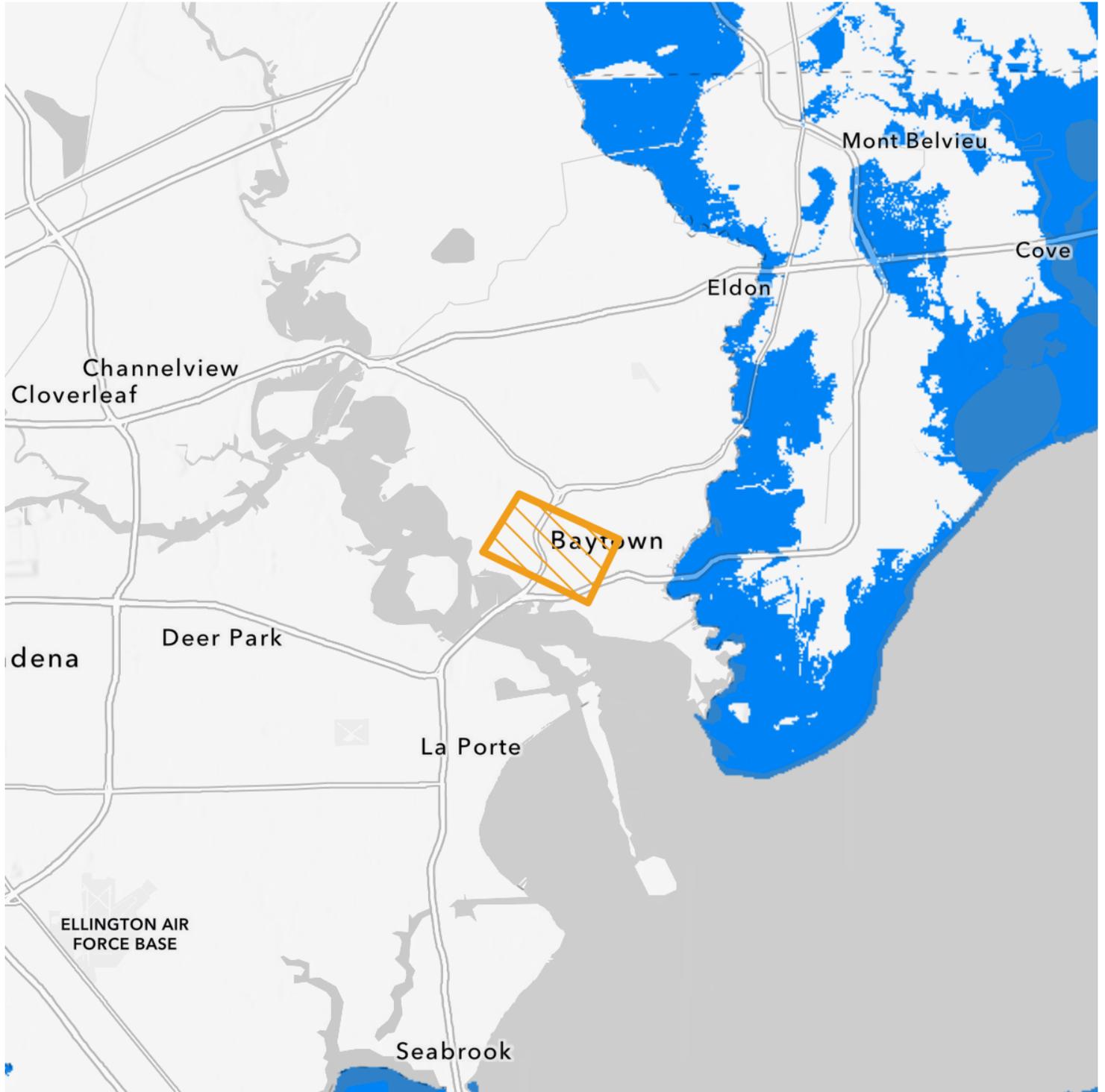
Inconclusive Data: Where FEMA flood maps indicate “area not included,” there may be background data available. Finding that data would require research in the Map Service Center and the assistance of a FEMA Regional Floodplain Management & Insurance (FM&I) Division's FFRMS Specialist.

Assistance

To contact the FEMA Regional Floodplain Management & Insurance FFRMS Point of Contact for assistance, first find the appropriate FEMA Regional office given the location of the proposed project. Then visit the [“Contact Us” link at FEMA.gov](#) to contact that Regional Office's Floodplain Management & Insurance Branch or e-mail FEMA at FEMA-FFRMS-SUPPORT-REQUEST@fema.dhs.gov.



Project Location



1:288,895



Project Location



FFRMS Floodplain