

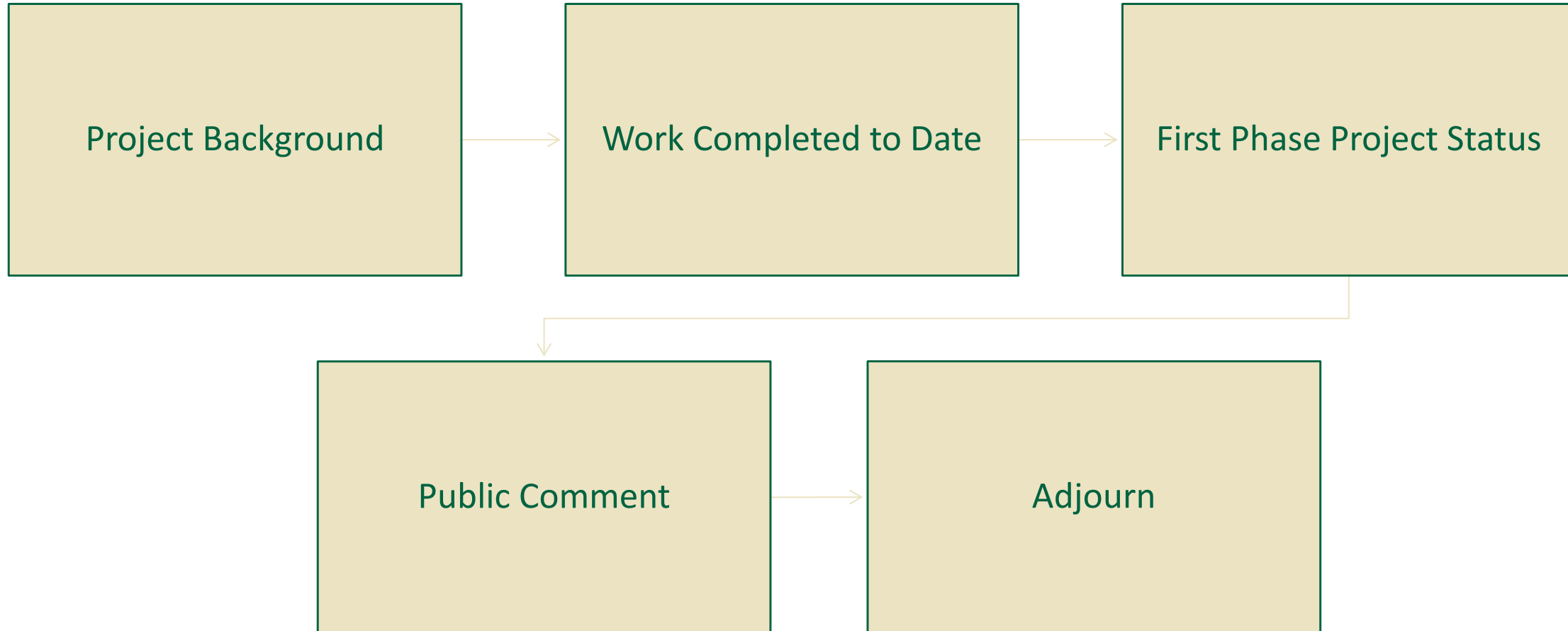
# Regional Drainage Improvement Program

## City of Bellaire

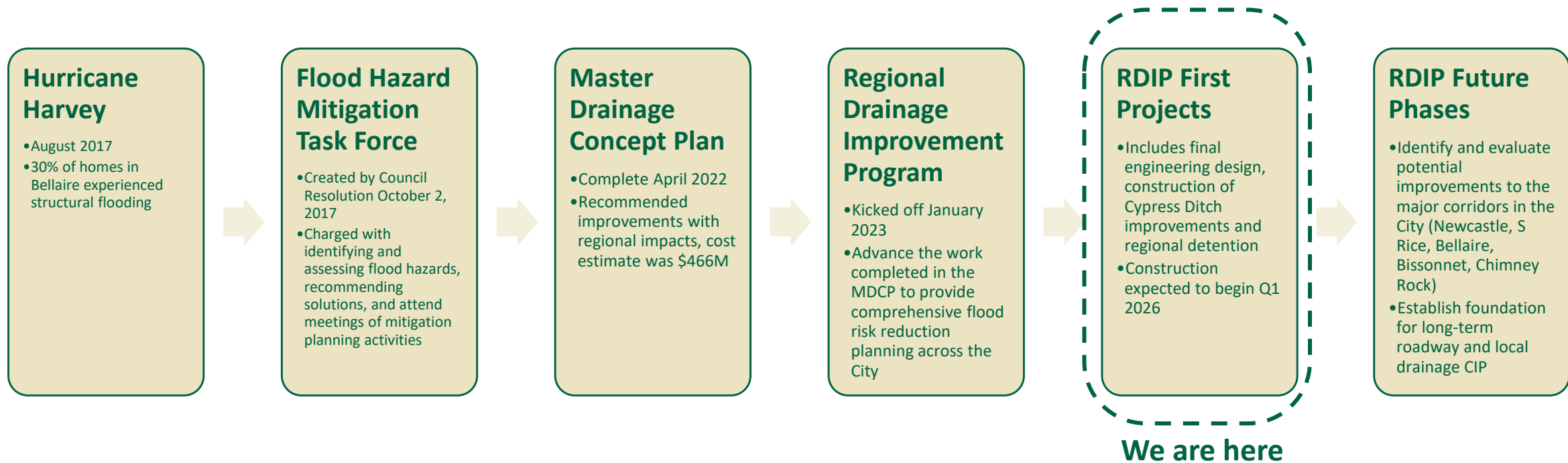
### Flood Hazard Mitigation Task Force #6

Meeting Date: November 18, 2025

# Agenda



# FHMTF Timeline




# Work Completed to Date

 Refined Flood Damage Prevention and Development Codes

 Established drainage criteria for future improvement projects

 Created a funding roadmap to support immediate and long-term Program projects and goals

 Advance high priority “First Phase” improvements, establish long-term implementation strategy

 Identified and coordinated with key project partners

 Pursued external funding opportunities

# First Phase Project Status



## Cypress Ditch Improvements

Includes widening, modifying cross section of the HCFCF channel



## IH-610 Crossing Improvements

Analyzed multiple configurations to evaluate costs and benefits  
TxDOT advancing potential improvements

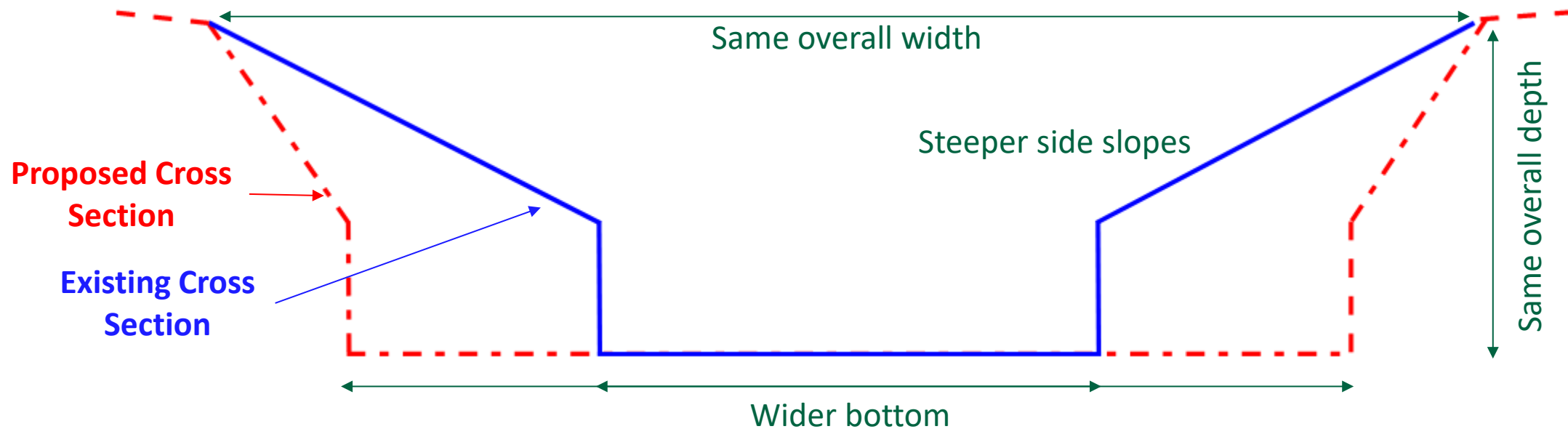


## Detention Basins

Volume required to support Cypress Ditch improvements and facilitate future improvements

# Cypress Ditch Improvements

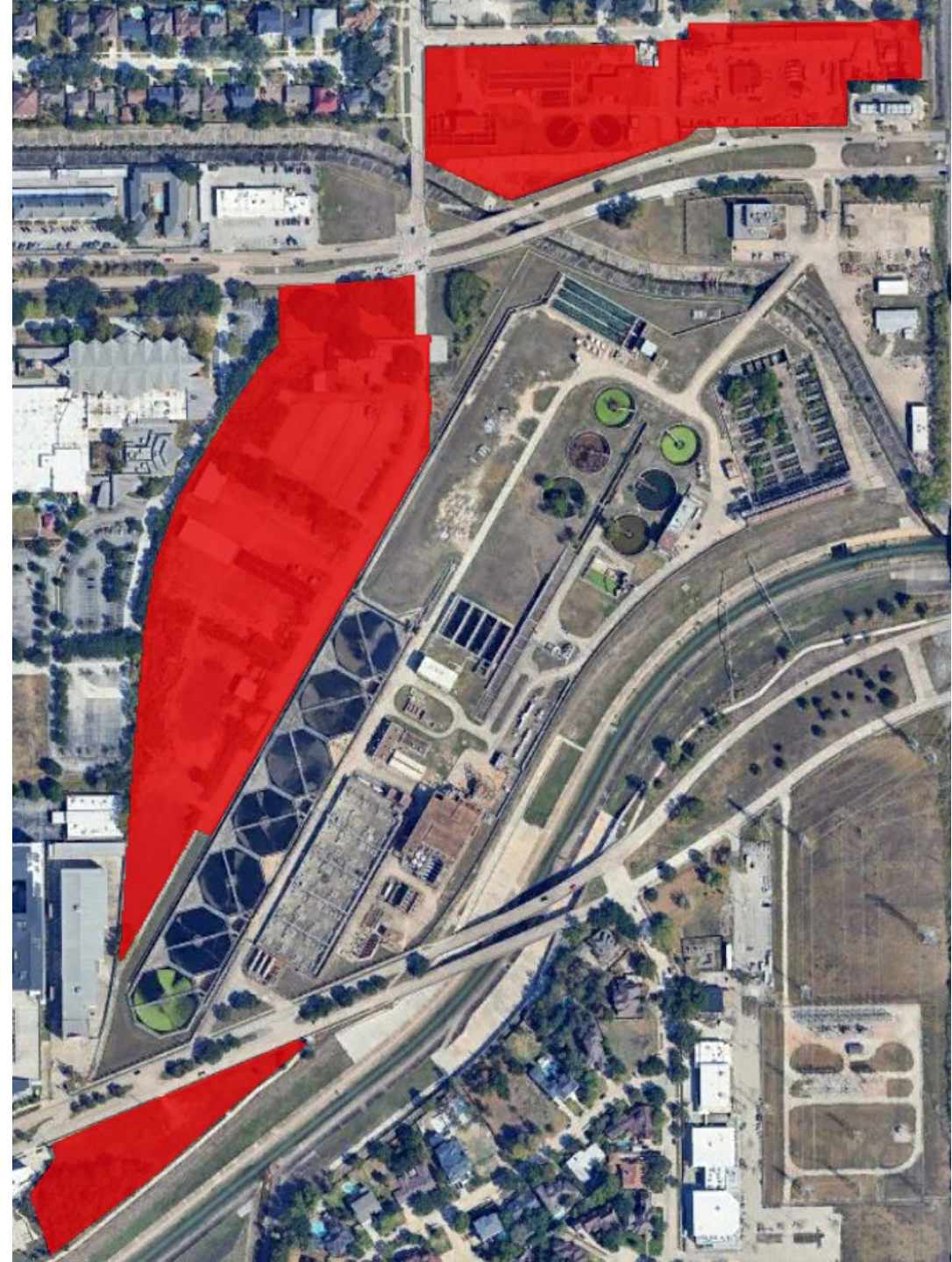
- Foundation of future infrastructure improvements
- Maximize channel capacity width and depth within existing right of way



Channel Cross Section

# Detention Basins

- Detention volume required to mitigate the improvements to Cypress Ditch
- Maximize available volume across the selected sites



30' MIN. TYP.

10' MAX.

6" MIN. SWALE DEPTH

2' MAX. SWALE DEPTH

5.5'

EXISTING GRADE

4

1

8' PROP. CONCRETE PILOT CHANNEL

DISTANCE VARIES, 1% MIN. CROSS SLOPE

1'

2 ON 1 SLOPE

4' BOT. WIDTH

2 ON 1 SLOPE

DISTANCE VARIES, 1% MIN. CROSS SLOPE

30' MIN. TYP.

10' MAX.

6" MIN. SWALE DEPTH

5.5'

NOTES:

- EASTERN SIDE OF BACKSLOPE SWALE WILL HAVE A GENTLE SLOPE TO ONE URBAN INTERCEPTOR STRUCTURE TO CREATE A DRIVABLE SURFACE. SEE SHEET 20 FOR LOCATION.



FUNDING SOURCE	APPLICATION DATE	PROJECT(S) SUBMITTED FOR FUNDING	Status
CDBG-MIT	June 7, 2023	Cypress Ditch Central Portion submitted in 2023	Not awarded
DOT Reconnecting Communities and Neighborhoods (RCN)	September 28, 2023	Cypress Slough Trail	Not awarded
GLO Resilient Communities Program	Open to June 2028	Home Elevation Program	City opted not to accept funding
TWDB Flood Mitigation Assistance (FMA)	January 8, 2024	North Bellaire Flood Risk Mitigation and Resiliency Study	Moved to next level of review
HGAC Transportation Improvement Program (TIP)	February 13, 2024	Chimney Rock Corridor S Rice Corridor Newcastle Corridor	Submitted
TWDB Flood Infrastructure Fund (FIF)	April 15, 2024	Chimney Rock Area Drainage Improvements Study Newcastle/Kilmarnock Drainage Improvements Study Local Drainage Asset Management Study	Chimney Rock and Newcastle/Kilmarnock ranked 89* in the Prioritization List
Community Project Funding (CPF) FY2025	May 3, 2024	Cypress Ditch	Program cancelled
HGAC Water/Wastewater Utility and Flood Mitigation Priority Project Lists	August 14, 2024	Cypress Ditch Regional Detention Wastewater Transfer Project	Cypress Ditch identified as a Tier 1 (Top Priority) Regional Priority Project, others as Tier 2
Hazard Mitigation Grant Program (HMGP) DR-4781	February 28, 2025	Cypress Ditch	Selected as an alternate project – Project will be considered if additional funds become available
Hazard Mitigation Grant Program (HMGP) DR-4798	March 14, 2025	Cypress Ditch	Submitted
Community Project Funding (CPF) FY2026	April 11, 2025	Cypress Ditch	Program cancelled

# Next Steps



Update H&H Modeling with advanced design

Incorporate updated channel cross sections and detention basin sizes, refine City system models  
Integrate project models with HCFCD MAAPnext models



Coordinate with HCFCD, COH

Refine South Basin design to accommodate COH needs  
Review H&H modeling, channel design with HCFCD  
Submit design documents for review and approval



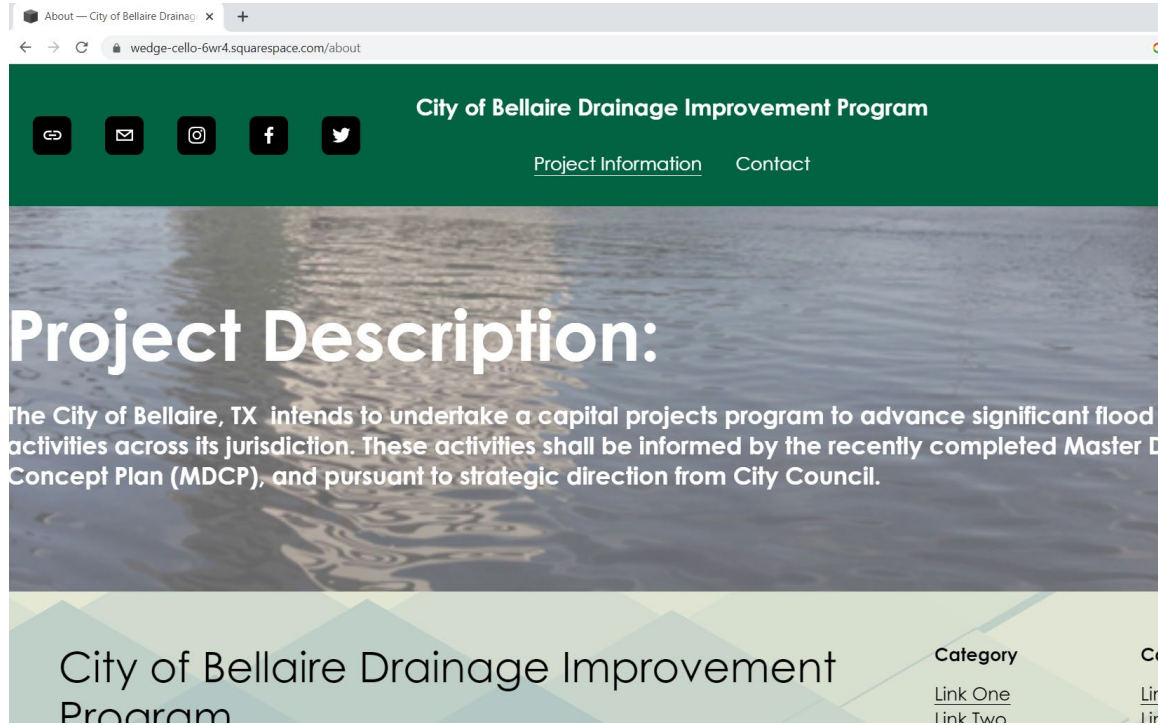
Develop next phase of the Program

Look toward long-term implementation  
Coordinate with external partners to align regional goals



Continue to strategize Program funding

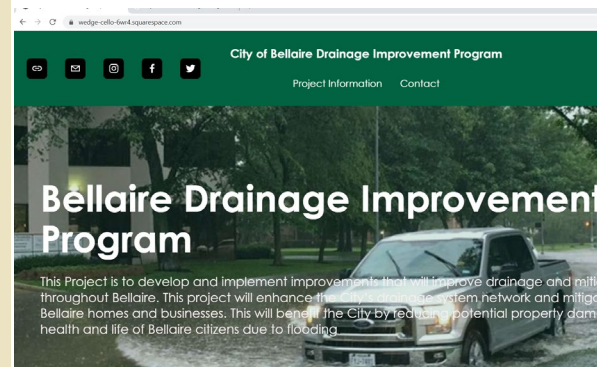
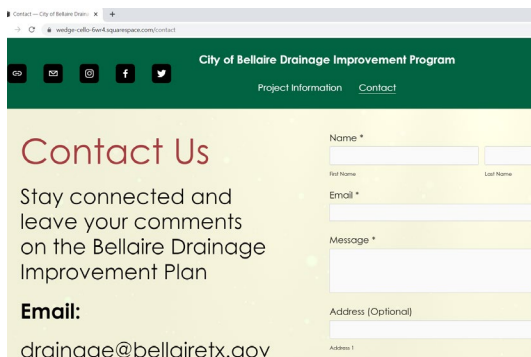
Identify opportunities to support future analysis or engineering design projects



# Questions?

Check the program website at  
<https://bellairedrainageimprovementprogram.org/>

Or email us at [drainage@bellairetx.gov](mailto:drainage@bellairetx.gov)





Public Comment  
Limit to three (3) minutes per speaker