

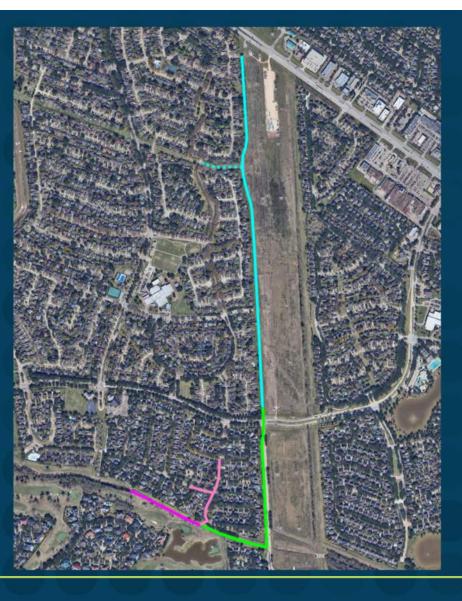
Project Background

- 2017 Hurricane Harvey delivered an average total of 31.6 inches of rain to the area.
- 2018 drainage study sponsored by Levee Improvement District No. 2 (LID2) and City identified causes of flooding during Hurricane Harvey.
- LID2 develops drainage system improvements.
- City pursues further analysis to target historical drainage issues.
- City develops needed storm sewer and channel improvements to reduce flood risks and realize benefits from the LID2 system improvements.



Objectives of Project

- Improve storm sewer capacity to improve conveyance to LID2 outfall facilities – comply with LID2 hydraulic requirements.
- Reduce depth of ponded stormwater in subdivision to provide greater protection from flood risk.
- Phased implementation of City drainage system improvements to adhere to capital program.
- Project included in 2019 voter-approved GO Bond program involves constructing the following:
 - New storm box trunkline and outfall to LID2 Ditch A
 - Storm sewer improvements along Acacia and Mesquite
 - New stormwater drainage channel north of Austin Pkwy



Overall Site Plan

Phase 1 - Storm box trunkline from Ditch A outfall to Acacia junction

Phase 2a - Improvements to existing storm sewer along Acacia and Mesquite

Phase 2b - Storm box trunkline from Acacia junction to Commonwealth and up to Austin Parkway

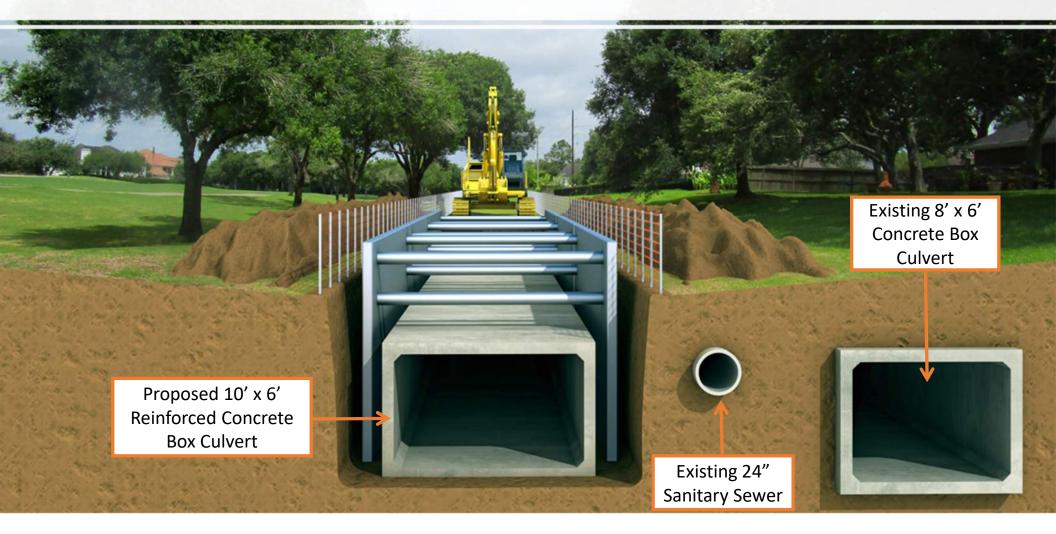
Phase 3 - Drainage channel along Oilfield



Storm Box Trunkline

- Phase 1 Work in drainage easement along north edge SWCC golf course up to junction with Acacia Drive
- Install 10'x6' storm box along side existing storm sewer and outfall to Ditch A
- Storm box length = approx. 1,200 linear feet
- Construction to last approx. 6 months

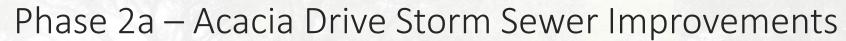
Phase 1 – Storm Box Trunkline



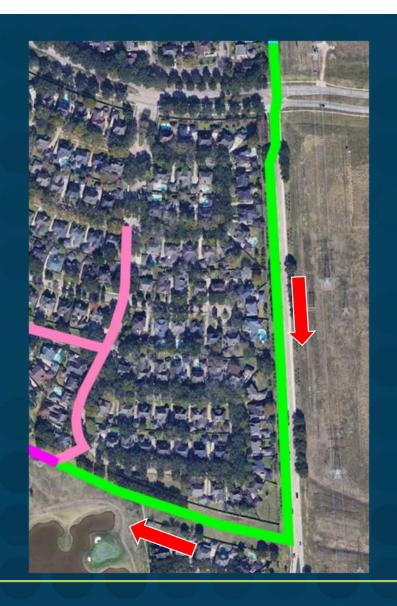


Storm Sewer Improvements

- Phase 2a Install 42"-60" storm sewer in Acacia
 right of way to relieve existing storm sewer
- Install 36" storm sewer in Mesquite right of way to relieve existing storm sewer
- Remove and replace pavement where new storm sewer is constructed - length = approx. 1,225 linear feet
- Construction to last approx. 4 months
- Construction concurrent with Phase 2b







Storm Box Trunkline

- Phase 2b Work in drainage easement from junction with Acacia Drive along west side Commonwealth right of way
- Install 8'x6' storm box
- Storm box length = approx. 2,600 linear feet
- Construction to last approx. 9 months



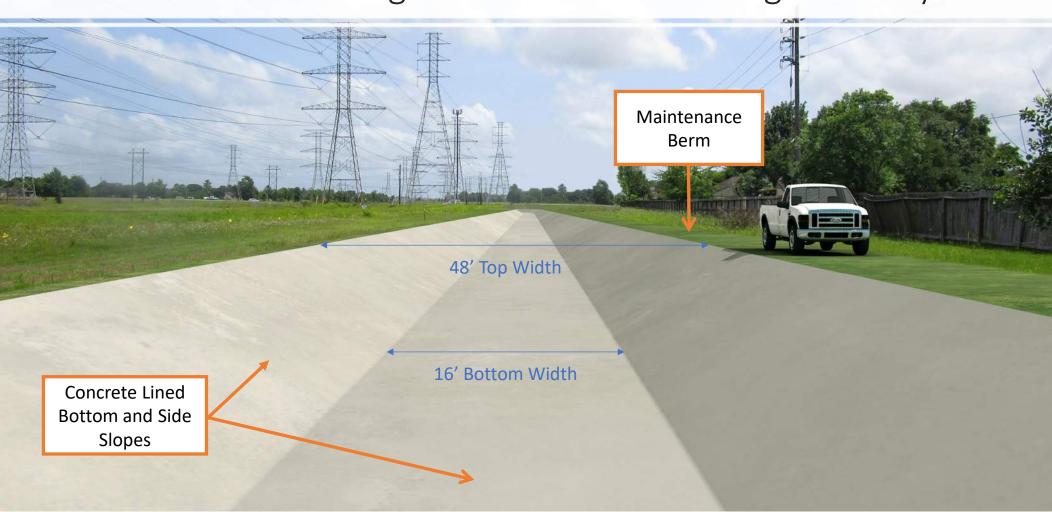




Drainage Channel

- Phase 3 Flood control channel in unused
 Oilfield right of way starting at Thistlewood
- Channel length = approx. 4,900 linear feet
 Typical channel dimensions = 48' Top Width,
 16' Bottom Width, 8' Depth
- Proposed grass swale in Centerpoint easement west of the channel
- Construction to last approx. 9 months

Phase 3 – Drainage Channel in Oilfield Right of Way



Project Milestones



Drainage and Route Analysis Drainage Channel Design Storm Sewer Design **Construction Phasing**

Bid Phase

Ouarter 4 2023



Construction Start December 2023/January 2024



Phase 2a - Acacia **Storm Sewer Improvements Anticipated Completion:**

Ouarter 4 2024

Pavement Removal Storm Pipe Installation **Pavement Replacement** Site Restoration



Phase 3 -**Stormwater Drainage Channel**

Anticipated Completion:

Quarter 1 2026

Channel Excavation

Concrete Channel Lining

Site Restoration

Ditch A (Steep Bank Creek)

Headwall Construction Storm Box Installation Site Restoration



Phase 1 - Storm Box Trunkline

Anticipated Completion:

Late Summer 2024

Commonwealth Boulevard

Storm Box Installation **Austin Pkwy Intersection** Pavement Remove/Replace **Headwall Construction**

Site Restoration

Phase 2b - Storm **Box Trunkline**

Anticipated Completion:

Quarter 1 2025



Planned Project Completion

Summer 2026

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