

Flood Hazard Mitigation Task Force

Monday, August 27th, 2018

Review of Activities Since March 6th Meeting

- Council Approved FHMP Report and Status
- Task Force Subgroup

Update of Current Activities

Local

Regional

Regulatory

Status of Ongoing Infrastructure Projects



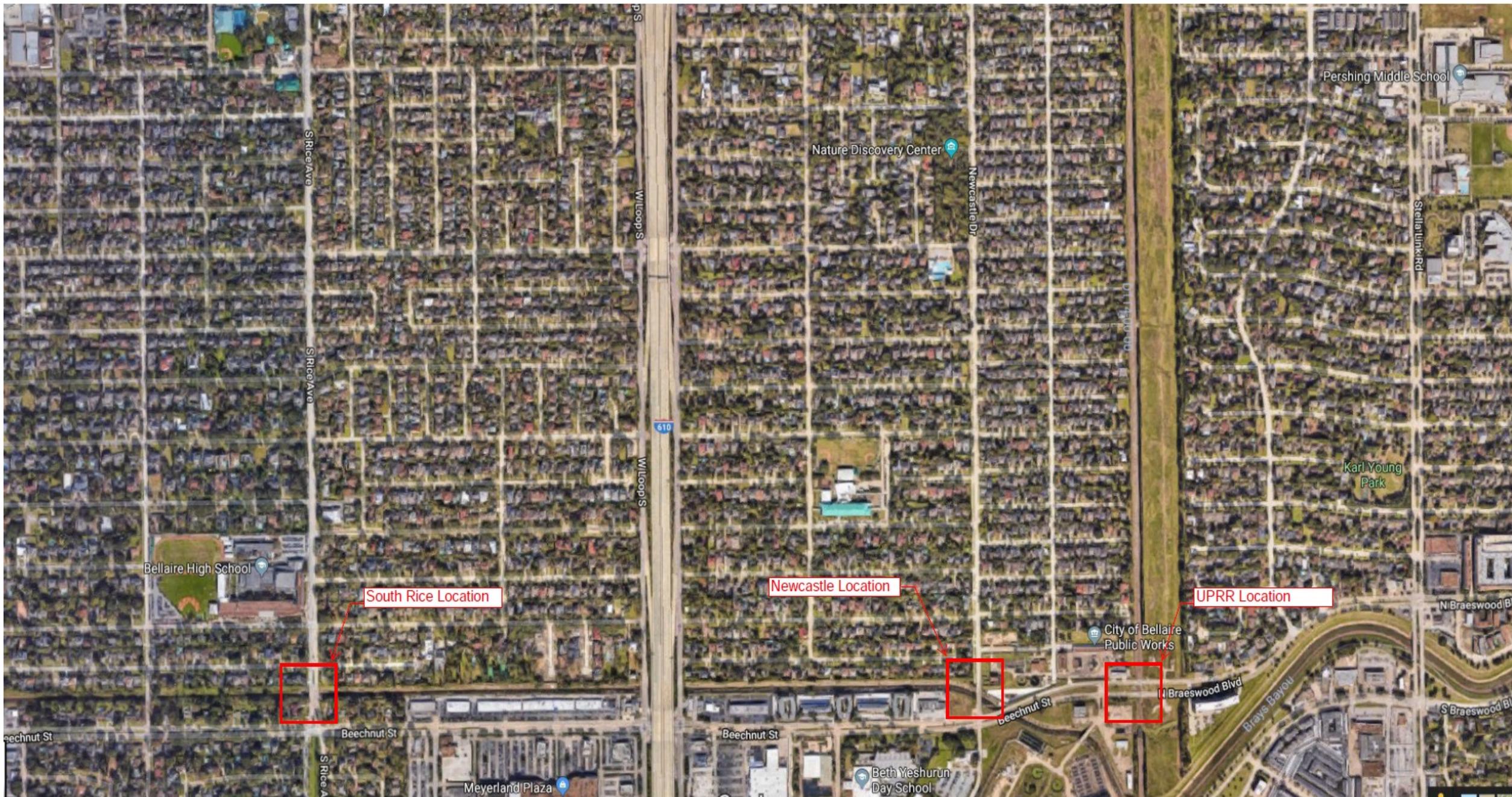
LOCAL

2016 Bonds for Better Bellaire Update

Bonds for Better Bellaire, Group C, Phase 2

Flap Gates: Involves the construction of junction boxes and flap gates at drainage outfalls located at South Rice Avenue, Newcastle Drive and UPRR Ditch. Coordination with TxDOT is ongoing for the IH 610 flap gate.

Status: Planned start of construction is projected for Spring 2019.



South Rice Location

Newcastle Location

UPRR Location

2016 Bonds for Better Bellaire Update

Bonds for Better Bellaire, Group C, Phase 2

Paving and Drainage: Involves the reconstruction and paving and drainage improvements on the following streets:

- Maple Street from Avenue B to Newcastle Street
- Bolivar Street from Jessamine Street to cul-de-sac
- Spruce Street from Ferris Street to S. Rice Avenue
- 5th Street from Bissonnet Street to Spruce Street

Status: Planned start of construction is projected for January 2019

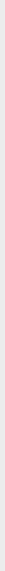
2016 Bonds for Better Bellaire Update

Bonds for Better Bellaire, Group C, Phase 3

Paving and Drainage: Involves the reconstruction of paving and drainage improvements with the installation of in-line 100-year detention storm sewer on the following streets:

- Larch Lane from Bissonnet Street to Newcastle Street
- Cynthia Street from Baldwin Street to Railroad
- Cedar Street from IH 610 Feeder to North Avenue B
- Chelsea Street from Jessamine Street to Evergreen Street
- Mimosa Street from Avenue B to East end cul-de-sac.

Status: Planned start of construction is projected for October 2019



Regional

Future Studies

North/South Arterial Drainage Study

This study will determine improvements that need to be made to the South Rice, IH 610, Newcastle and Kilmarnock drainage arterials.

- Determine regional partners for future drainage improvement projects.
- Determine major inflow points into the City of Bellaire.
- Study overall watershed for overland sheetflow that could impact the north/south drainage arterials and Cypress Ditch.
- Determine improvements to north/south system conveyance to transport runoff to Cypress Ditch.

Chimney Rock Master Drainage Plan

Analyzes the contributing drainage areas to storm sewer under Chimney Rock Road from US 59 to Brays Bayou.

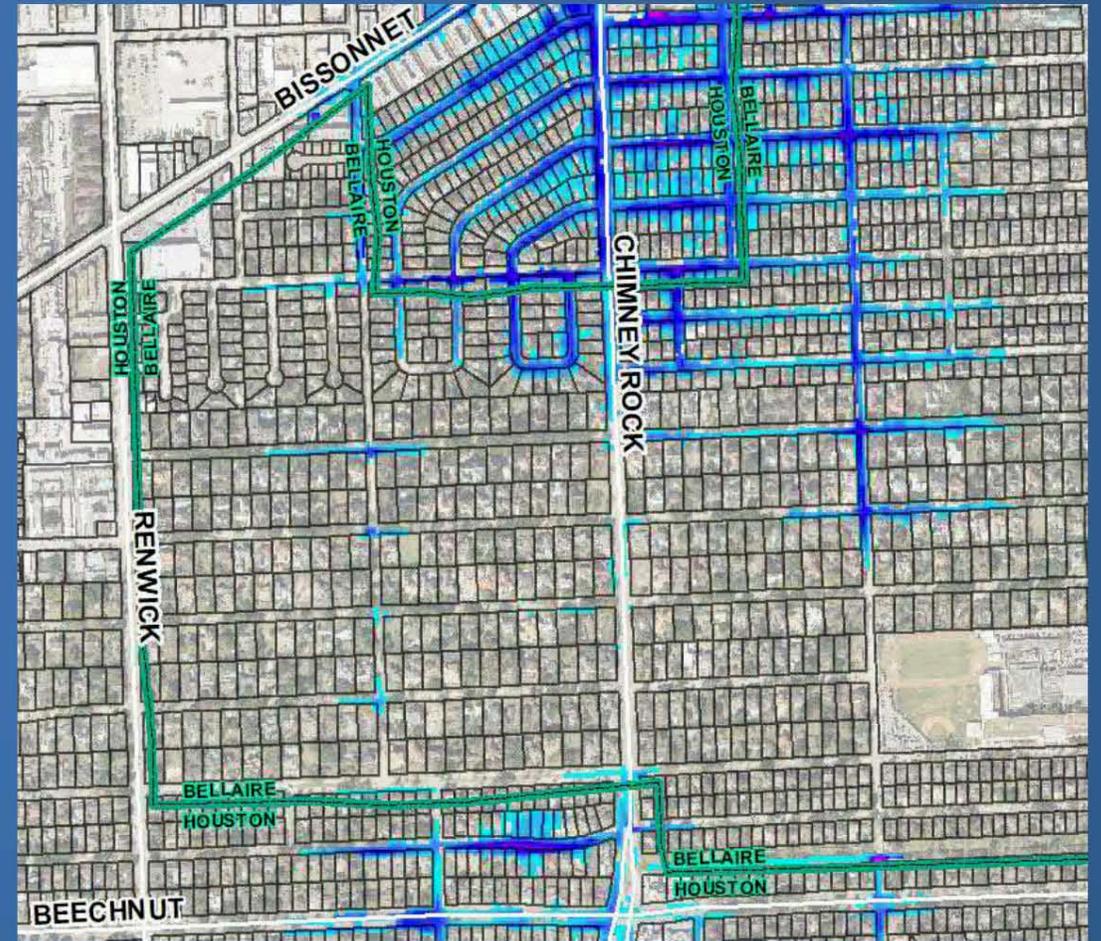
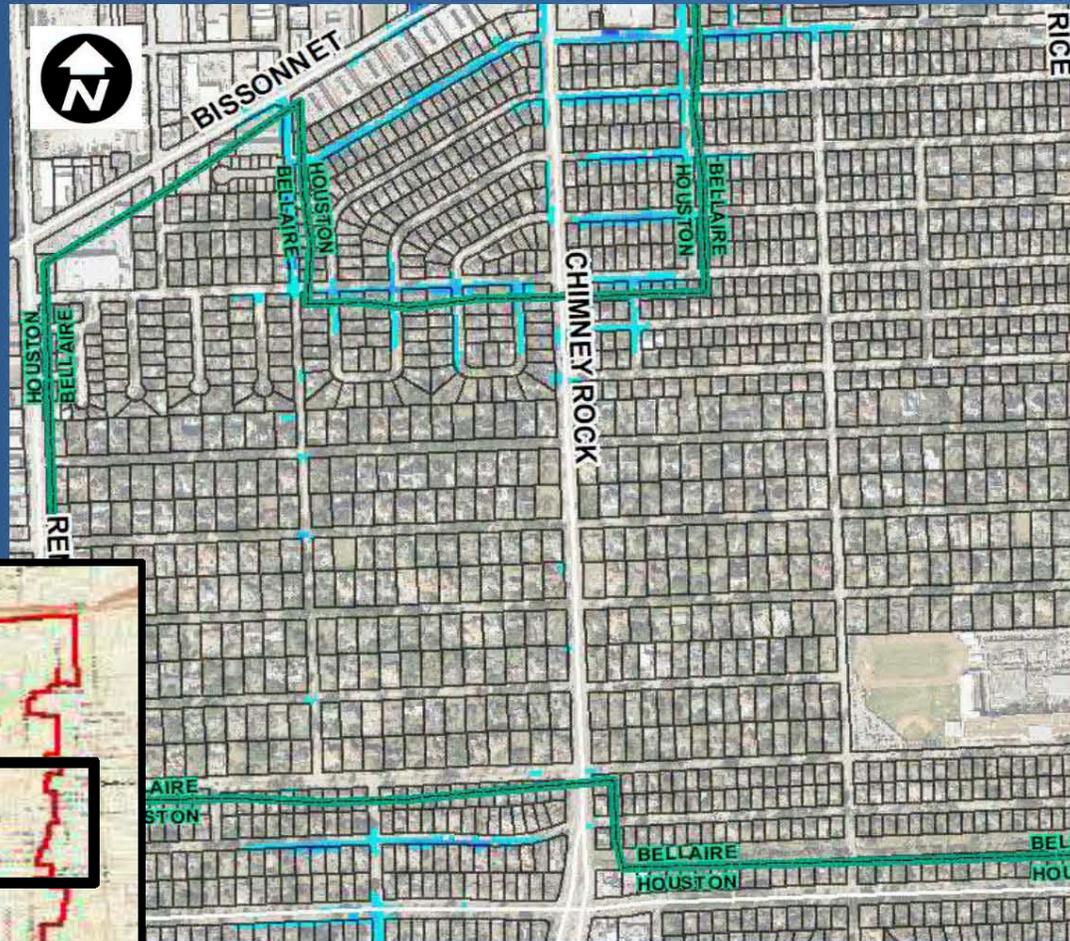
The Master Drainage Plan will propose solutions to the drainage issue by either additional storm sewer, enlargement of the main trunk along Chimney Rock, upstream detention, or a combination of all three.

City of Bellaire will continue to coordinate with the City of Houston through the preparation of the master drainage plan.

Existing Results

2-year storm

100-year storm

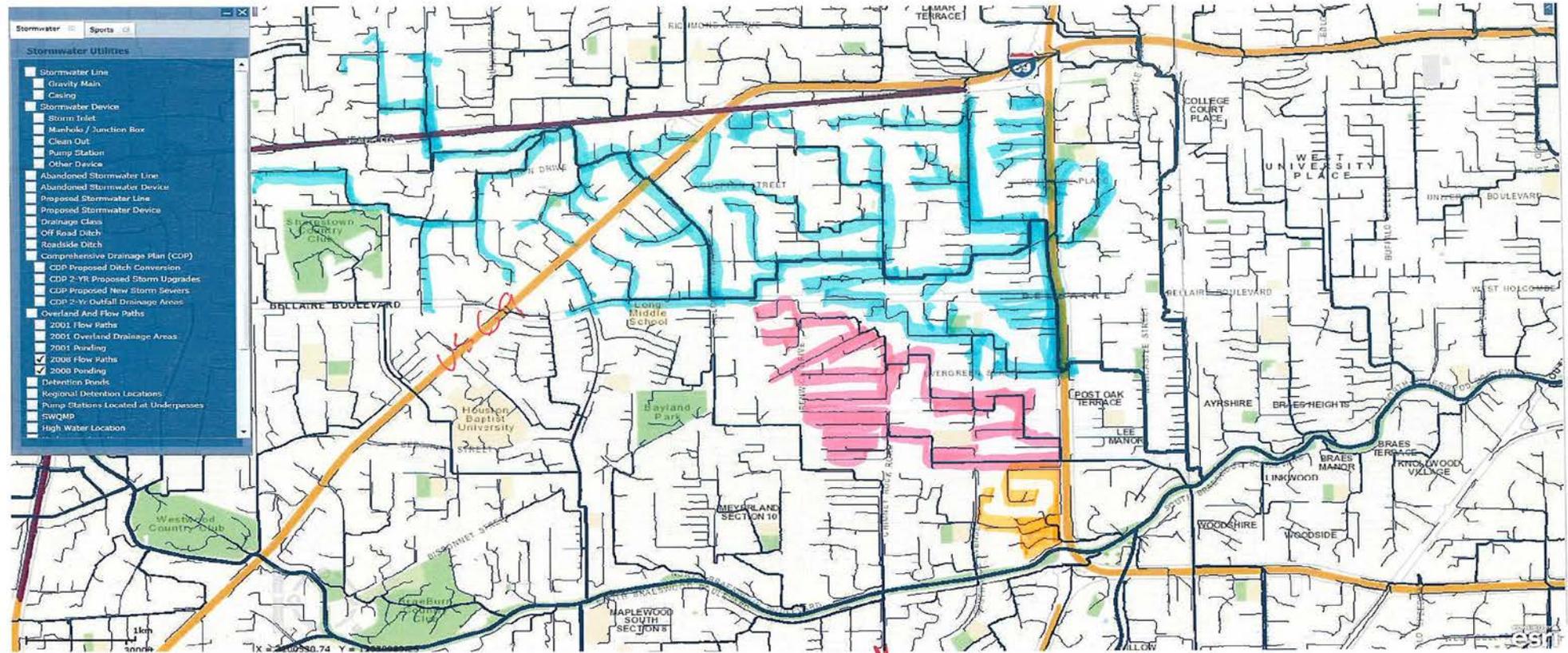


Proposed Alternatives

Chimney Rock Road Drainage

- Additional Storm Sewer
- Upstream Detention
- Projected Cost
- Possible Complications
- Expected Relief

TxDOT – IH 610



Flow paths

S. Gessner

Fondren

Hillcroft

Renwick

Chimney Rock

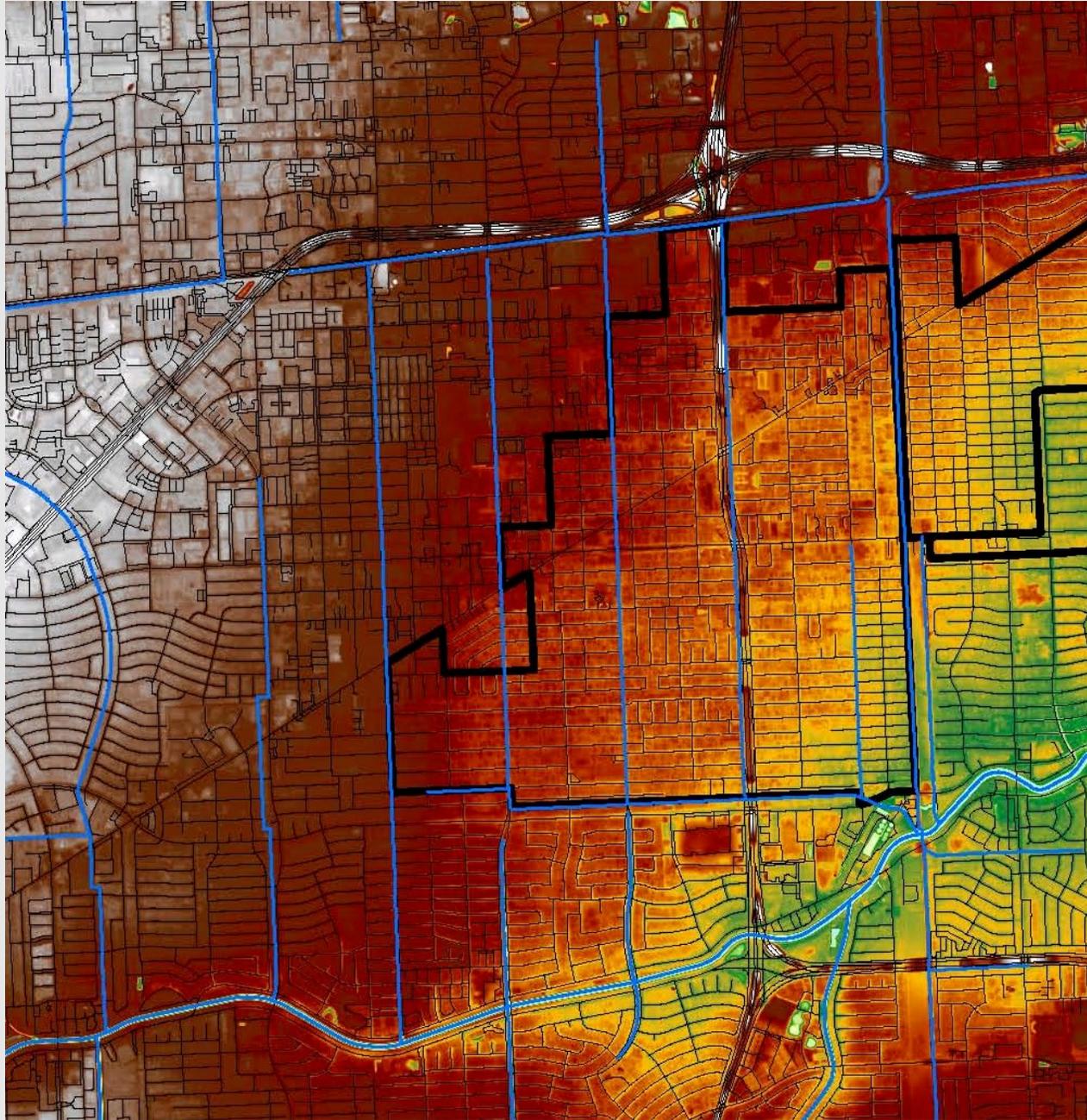
S. Rice

IH 610

Newcastle

RZ

Overland Sheet Flow



Local Activities Cont'd

- FY 19 Bond program street and drainage projects may double the amount of funding per year
 - Cypress Ditch
 - Sheet flow Barrier Removal
 - Kilmarnock Ditch

Local Activities Cont'd

- Prepare Bellaire Launch
- The Boulevard Newsletter send out monthly with Flood Hazard Mitigation Information
- Hurricane Season Community Meeting
- Citizen Volunteer Program Project
- Managed expenses, tax burden
- Communication with builders

Regional Activities Cont'd

- Status on Grants
 - CDBG-DR 2015 – Submitted Application
 - CDBG-DR 2017 - Submitted Notice of Intent
 - HMGP Grant(6 Total Applications) = TDEM Texas Division of Emergency Management – have been Submitted and awaiting approval
 - Elevations
 - Flap Gates
 - Bonds for a Better Bellaire Drainage Projects
 - Future Bond Projects
 - Feld Park Generator
 - North/South Drainage System Improvements
 - FMA Grant(Home Elevations Only) = TWDB Texas Water Development Board – Applications due November/December 2018

Current Regulatory Activities

- Will be addressing:
 - No Wake Ordinance – Scheduled for October 2018
 - 50% rule – FY19
 - NON- remediated properties

Next Meeting

Tuesday, March 26th, 2019