

Project Background

- **Tonight presentation is for 3 agenda items**
- **City started major drainage improvements in 2007**
- **Major projects completed:**
 - **Sugar Creek Phase I, II and II: West Sugar Creek, Longview & Golf Course.**
 - **Covington Woods: Offline Pond, Jess Pirtle St., Business Park Tie-in, Ditch A22 Bournewood Trunk Line, Ivymount Dr.**

Project Background

➤ Major projects ongoing:

- Lexington Boulevard and Highlands Drainage Improvements.
- Covington Woods Sugar Land M.S. Relief line and Greywood Dr.
- Brazos River Erosion Project

Project Background

- City has invested approx. \$31.4 Million in drainage improvement projects in the last 5 years.
- After the 2015 Memorial day and 2016 Tax day storms, the CoSL created Project DR1707 to study and address additional drainage concerns.

Project Background

- After 2017 Hurricane Harvey, engineering staff combined the areas identified after the 2015 & 2016 storm events with :
 - Subdivisions that experienced structural flooding during Harvey
 - Major intersections and street that presented excessive street ponding
- These areas will be evaluated and prioritized per the Drainage Master Plan criteria

Project Background (cont.)

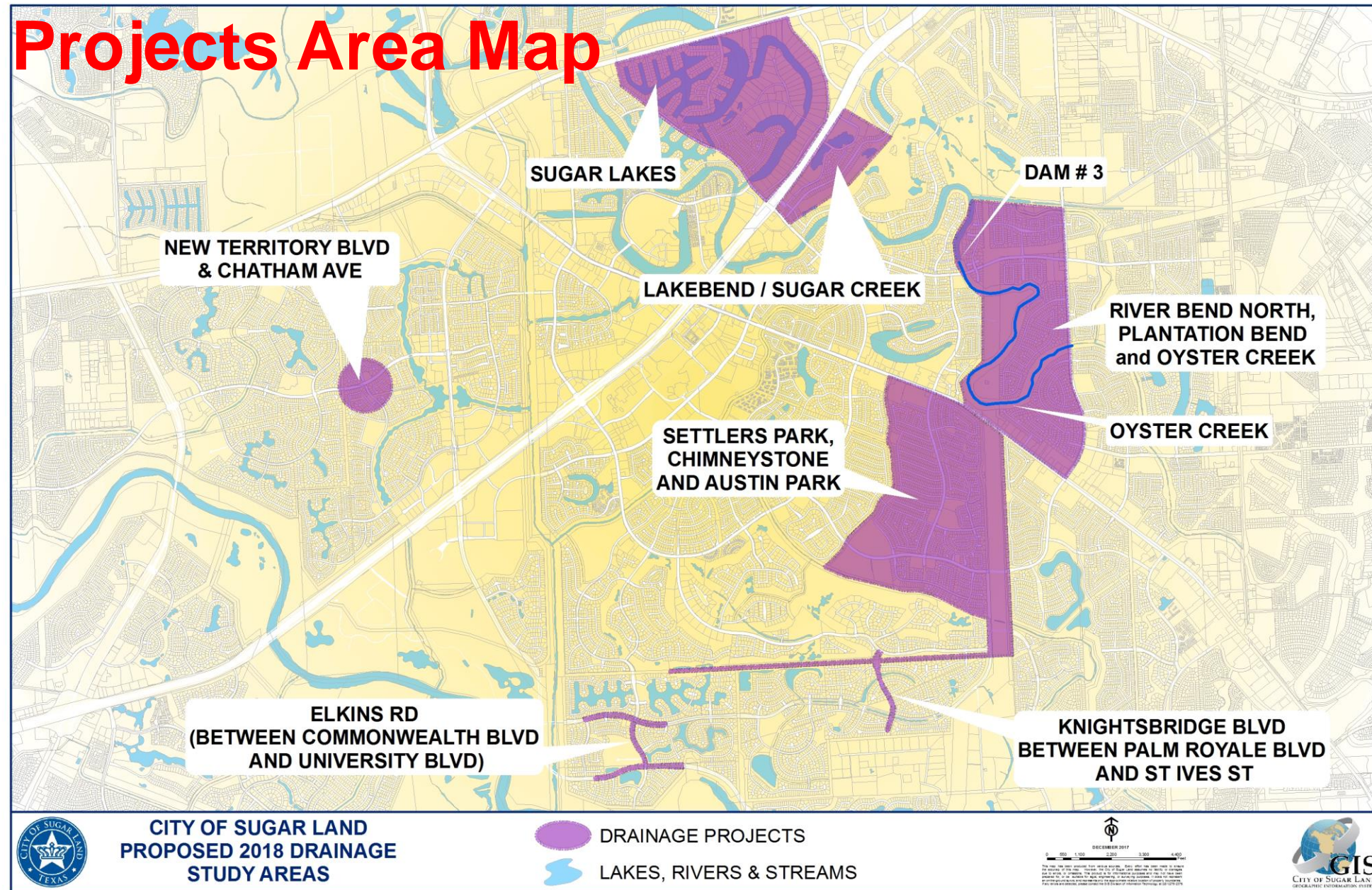
➤ The neighborhoods that have been identified to be studied include:

- Settlers Park
- Chimney Stone
- Austin Park
- Sugar Lakes
- River Bend North and Plantation Bend
- Lakebend and Sugar Creek (On the Lake)

Project Background (cont.)

- **The following major street intersections will be evaluated:**
 - **Elkins Road (between Commonwealth Blvd. and University Blvd.)**
 - **Knightsbridge Blvd**
 - **New Territory Blvd. at Chatham Rd.**
- **Oyster Creek between Dam # 3 and Dulles Avenue**
 - **Mitigate potential flooding in adjacent neighborhoods from possible back water due to the Brazos River.**

Projects Area Map



FBC LID # 2/CoSL Joint Study

- **CoSL and FBC LID#2 collaborated to initiate a study 2 weeks after Harvey.**
- **Preliminary results were presented at City Council workshop on October 17, 2017.**
- **FBD LID # 2 in support of CoSL presented final results at 2 public meetings in November 2017.**
- **Early tonight City Council approved the Interlocal agreement for the joint study.**

FBC LID # 2/CoSL Joint Study

- **Final report confirmed the preliminary results presented at City Council workshop.**
 - **exceeded the LID # 2 channel storage capacity and**
 - **exceeded the pumping capacity at the Ditch A pump station.**
 - **exceeded the current City's stormwater design criteria**
- **CoSL and LID #2 are conducting separate Phase 2 studies.**

Project Scope

- Data collection
- Hydrologic and hydraulic analysis
- Improvements alternative analysis
- Cost analysis
- Coordination with LIDs (where applicable)
- Public Outreach with residents of each area
 - Initial Meeting/communication (early Jan 2018)
 - Progress Meeting (early Mar 2018)
 - Final Project Meeting (early Apr 2018)

Project Scope (Cont.)

- Engineering staff will rank any newly identified projects with same criteria as those currently identified in the CIP.
- This ranking will be in accordance with the identified scoring per the adopted Master Drainage Plan.
- The proposed improvements will be presented to City Council for inclusion in the future CIP.

Project Schedule

Milestone	Date
Project Kickoff	January 2018
60% Project Submittal	March 2018
Final Project Submittal	April 2018
Presentation to City Council	May 2018

Consultant Selection and Project Budget

Subdivision/Street	Consultant	Fee	Source
Chimney Stone, Austin Park, and Settlers Park and Sugar Lakes.	Freese and Nichols Inc.	\$170,700	CIP Fund
River Bend North, Plantation Bend and Oyster Creek.	Lockwood, Andrews & Newnam, Inc.	\$79,510	CIP Fund
Elkins Road & Knightsbridge.	Jones & Carter Inc.	\$90,000	CIP Fund

Lakebend, Sugar Creek (on the Lake) and New Territory Blvd to be funded directly from the FY 18 Engineering Department Professional Service Fund.

Request for Approval

The Engineering Department recommends the City Council to:

1. Approve a FY18 CIP budget amendment in the amount of \$170,700.
2. Authorize the execution of the professional services contract with Freese and Nichols Inc. to perform drainage studies at Chimneystone, Austin Park, Settlers Park, and Sugar Lakes subdivisions, in an amount of \$170,700.

Questions