

City of Bellaire

GROUP C PHASE 2 FLAP GATES

Bonds for Better Bellaire 2016 Program

Background The Bonds for Better Bellaire 2016 program approved \$20 million for street, drainage and sidewalk construction. The program will continue the City's practice to design and construct streets and drainage concurrently in one project with sidewalks installed on at least one side of the street. It also has a drainage focus. This project is the second of three that was approved with the funding.

Four flap gate locations along the southern perimeter of the City were analyzed to determine they will aid in flood mitigation from Brays Bayou during certain rain events. Coordination with agencies such as Harris County Flood Control District, the Texas Department of Transportation, the City of Houston and Union Pacific Railroad is necessary to implement this project.

Resources Project Background: [February 20, 2017 City Manager Presentation](#)
Maps are in the presentation above. Reference Group C Phase 2 project and Group A Phases 1-3 Map for waterline location.
2016 Bonds for Better Bellaire 2016 Program: [City of Bellaire Webpage](#)
Report from City Engineer on Hurricane Harvey Flooding: [October 2, 2017 Report](#)

Scope: Install Flap gates at the following locations:

- Cypress Creek Ditch at Newcastle
- S Rice Outfall
- Union Pacific Railroad Ditch
- *** 610 Ditch

Schedule: Pre-Design: Preliminary Engineering Report Completed
Design: Fall 2017 – Fall 2018
Construction for Cypress Creek Ditch, S Rice Outfall and Union Pacific Railroad Ditch:
Pending Master Drainage Plan Study
*** Construction for 610 Ditch: Unknown until TxDOT provides comments on the design

Project Budget: \$3,000,000 Bond Funds

| Types of Contracts | Firm Approval | Cost | City Council Approval |
|--|----------------|-------------|--------------------------------|
| Design and Construction Administration | Costello | * \$500,000 | March 20, 2017 |
| Third Party Review | ARKK Engineers | * \$43,000 | March 20, 2017 |
| Construction Management | TBD | | |
| Construction Contractor | TBD | | |

* Costs include services for C2 flap gates project