AIRPORT MAINTENANCE BRIDGE REPLACEMENT CIP AP1901

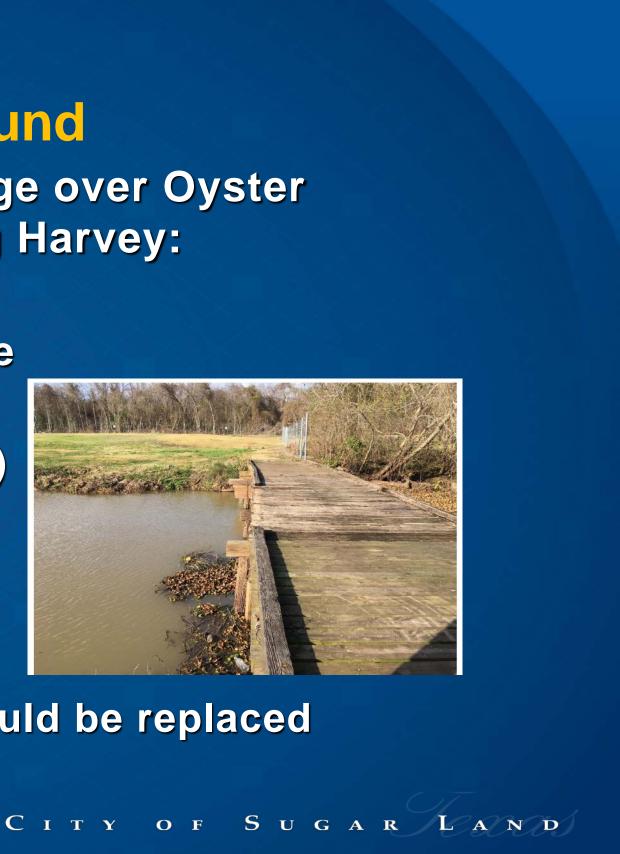
November 5, 2019 Sugar Land Regional Airport Engineering Department

CITY OF SUGAR LAND



Project Background

- Existing airport maintenance bridge over Oyster Creek experienced damage during Harvey:
 - flow velocities in the channel
 - debris accumulation under bridge
- Intermediate spans displaced more than 10 inches (Horizontally)
- During flooding events bridge is not accessible
- Condition assessment in 2018
 - bridge is not safe to use and should be replaced



Project Location EXISTING BRIDGE (TO BE REMOVED) PROPOSED BRIDGE WULL LA HULL 2 JIM DAV ESS 召 LEE DUGGANOD

CITY OF SUGAR LAND AIRPORT OYSTER CREEK MAINTENANCE BRIDGE REPLACEMENT

CITY OF ST



Project Background

- > Initial scope of work considered replacing the bridge with a similar bridge:
 - 12-ft wide/60-ft long bridge/10,000 lb loading capacity
- > Hydraulic analysis found adverse impact to water surface elevation in Oyster Creek for a similar bridge
- > The ongoing Airport Master Plan identified future construction projects on the north side of Oyster Creek will require a bigger bridge to carry larger required loads

Project Background

- > New Designed Bridge
 - Ioading capacity: 54,000 lb
 - 15-ft wide & 80-ft long
 - 18-in above the Base Flood Elevation (Oyster Creek)
- > Due to close proximity to runway contractor will have to work at night during installation of piers and bridge abutments
- > Modifications to bridge design in conjunction with night work requirements resulted in cost increases from the original estimate

Project Budget

- > Staff preferred to bid and receive qualified bids to determine
 - amount of additional funds required
 - FY20 budget amendment (as needed)
- > Airport Fund Balance will cover the additional funds required





Contractor Selection

- > Design and bid documents were completed in **August 2019**
- Advertised for Bid on September 4 and 11, 2019
- \succ Bids were open on October 3, 2019
- \succ Six (6) bids were received



Bid Summary

CONTRACTOR	BID AMOUNT
Leland Bradlee Construction, Inc.	\$364,392
NBG Constructors Inc.	\$406,869
John Reed and Company LLC	\$427,646
WadeCon LLC	\$435,653
GAEL, Inc.	\$485,387
DG Medina Construction, LLC	\$500,446



Project Funding

Construction Contract	\$364,392
5% contingency	\$ 18,220
Material testing/Const. Serv.	\$ 14,738
Total Funds Needed	\$ 397,350
CIP AP1901 Available Funds	\$217,376
Additional Funds Needed	



Project Schedule

> Notice to Proceed: November 2019 Substantial Completion: February 2020



Construction Notifications

Project is located in a restricted area at Airport

- It will have no direct impact on residents
- Engineering and airport staff will maintain communication with the following:
 - Federal Aviation Administration (FAA)
 - Gulf Coast Water Authority (GCWA)





REQUEST FOR APPROVAL

Approve a Construction Contract with Leland Bradlee Construction Inc., in the amount of \$364,392 for the Airport Maintenance Bridge Construction CIP AP1901 and authorize a budget amendment of \$179,974 from the Airport Fund Balance to CIP AP1901.

CLARIFYING QUESTIONS FOR STAFF



COUNCIL MOTION & DISCUSSION

