

US 90A DRAINAGE IMPROVEMENTS FOR AIRPORT TAXIWAY CIP AP1902

**June 16, 2020
Sugar Land Regional Airport
Engineering Department**

C I T Y O F S U G A R L A N D

Texas

Project Background

- The drainage under US90A has been an area of concern for years
- The Sugar Land Regional Airport experiences flooding of the runway and taxiway during medium to large storm events
- The southern 2,000 ft. of runway and taxiway flooding affects airport operations during and after these types of events
- Minor events cause runoff to pond at the southeast corner of the runway due to inadequate fall under US 90A

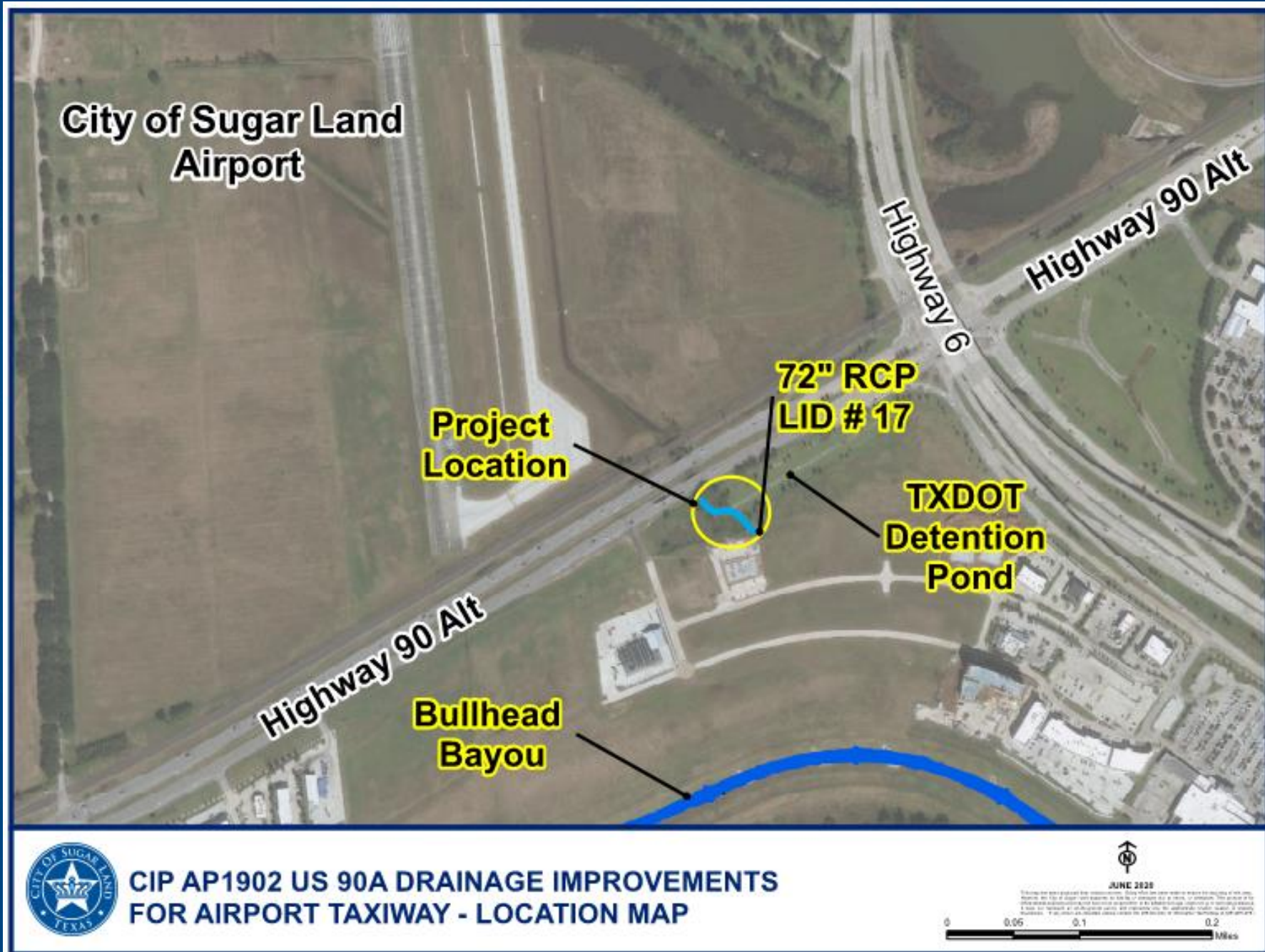
Flooding Events



May 26, 2015



April 18, 2016



Project Background

- Airport stormwater discharge is:
 - conveyed through a concrete swale (under Hwy 90A)
 - routed through a TxDOT detention pond
 - connected to a 72-in RCP that outfalls into Bullhead Bayou
- In 2010, TXDOT made Hwy 90A improvements disconnecting the airport from the detention pond



Project Scope

- **Reconnect the following:**
 - drainage channel to the TxDOT Detention Pond
 - TxDOT Detention Pond to the 72-in RCP

- **Other items include the following elements:**
 - Remove/replace existing concrete slope paving
 - Remove/replace storm sewers and manholes
 - Excavate channel and basin
 - Install concrete slope paving, retaining walls, riprap

Contractor Selection

- **Design completed in April 2019**
- **TXDOT Permit received in November 2019**
- **Bids were advertised on April 1 and 8, 2020**
- **Bids were opened April 23, 2020**
- **Nine (9) bids were received**

Bid Summary

CONTRACTOR	BASE BID
Lonnie Lischka Company LP.	\$181,894.80
ARANDA Industries Inc.	\$186,687.00
Environmental Allies Inc.	\$188,000.00
Leeland Bradlee Construction Inc.	\$194,920.00
717 Construction Services LLC	\$219,581.50
Wadecon LLC	\$234,460.00
ArTurnkee Const. Co. Inc.	\$248,896.50
Precise Services Inc.	\$270,031.30
GAEL Inc.	\$301,794.00
ENGINEER'S PROBABLE COST ESTIMATE	\$174,500.00

Project Funding

Construction Contract	\$ 181,894.80
5% contingency	\$ 9,140.20
Material testing/Const. Serv.	\$ 15,165.00
Total Funds Needed	\$ 206,200.00

CIP AP1902 Available Funds	\$ 94,500.00
Budget Amend. from CIP AP1903	\$ 111,700.00
Total Budget:	\$ 206,200.00

Budget Amendment Justification

- Budgeted using the design previously reviewed by TXDOT in early 2018
- TXDOT permitting modifications:
 - Lowering the pilot channel and the connection to the 72-in RCP
 - Adding a manhole, excavation and slope paving
- Modifications increased the cost requiring a budget amendment

Project Schedule

- **Notice to Proceed: July 2020**
- **Substantial Completion: October 2020**

Construction Impact & Notifications

- **Project is located in a restricted area inside TXDOT Right-of-Way**
- **Access from Presidio Court (50-ft. South of Hwy 90A)**
- **No direct impact to residents**
- **Engineering staff will maintain communication with:**
 - **Airport staff**
 - **TXDOT**
 - **Commercial property adjacent to project site**

REQUEST FOR APPROVAL

- **Approve a Construction Contract with Lonnie Lischka Company LP, in the amount of \$181,894.80 for CIP AP1902 US90A Drainage Improvements for Airport Taxiway and authorize a budget amendment of \$111,700 from CIP AP1903 to CIP AP1902.**

CLARIFYING QUESTIONS FOR STAFF

COUNCIL MOTION & DISCUSSION