## WHARTON LEVEE SYSTEM

Wharton Levee System, Texas

Commissioners Court Briefing Wharton County 28 October 2019





### **BRIEFING PURPOSE**

### **Purpose**

- Give overview of history of project
- Provide status of current efforts
- Reduce concerns regarding induced damages





### STUDY PURPOSE AND AUTHORITY

**Study Purpose:** Investigate flooding with an effort to reduce risk from future floods for the Lower Guadalupe River Basin, Texas.

**Authority:** Authorities for conducting studies within the Colorado River Basin of Texas have been in place since the mid-1930's. Despite being somewhat aged, they have remained active throughout the years, and remain valid today for studies in or near Wharton, Texas.

The applicable Congressional Study Authorization is shown below:

- Resolution by the Committee on Commerce, United States Senate, adopted August 4, 1936
- River and Harbor Act, approved August 26, 1937
- River and Harbor Act, approved March 2, 1945
- Bipartisan Budget Act of 2018 Provides full federal funding for completion of the recommended plan





### **TIMELINE**

Feasibility Study Completed – 2006

First Design Contract - 2012

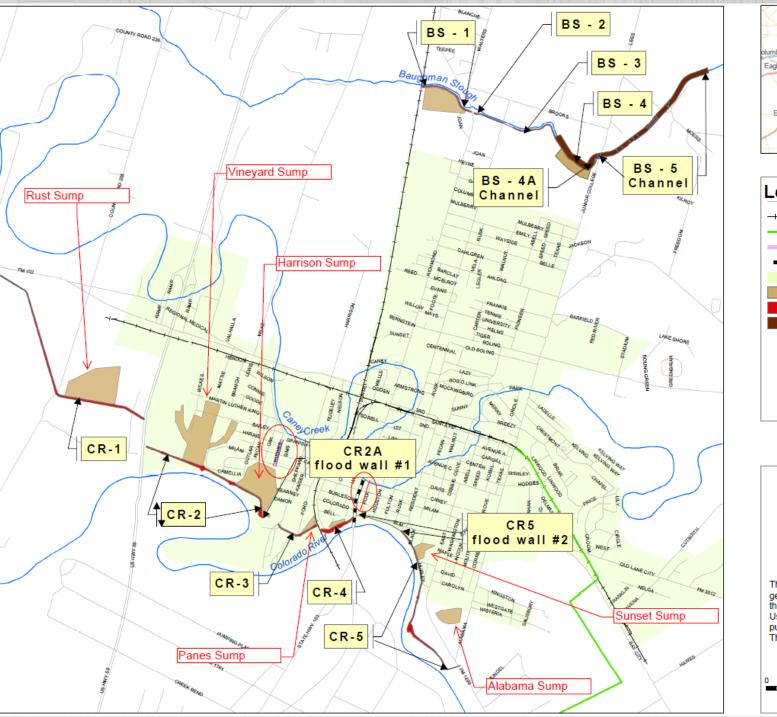
Hurricane Harvey - 2017

Bipartisan Budget Act of 2018

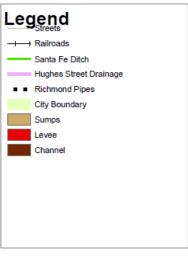
Award of current design contract 2018

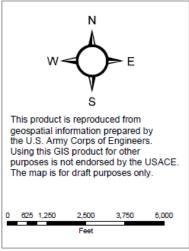


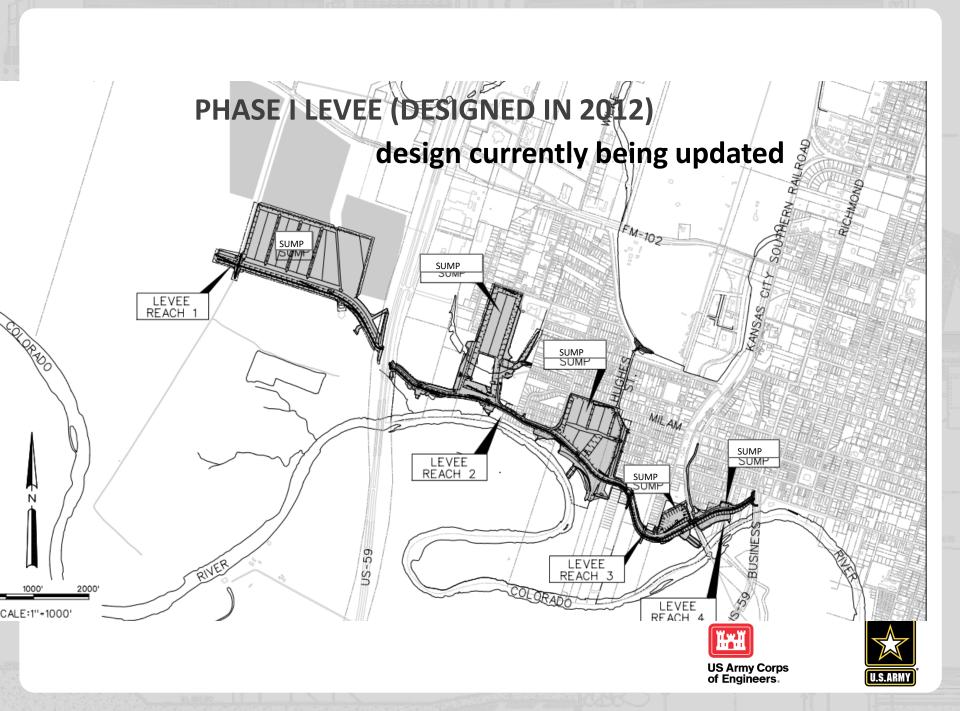












### **CURRENT LEVEE STATUS**

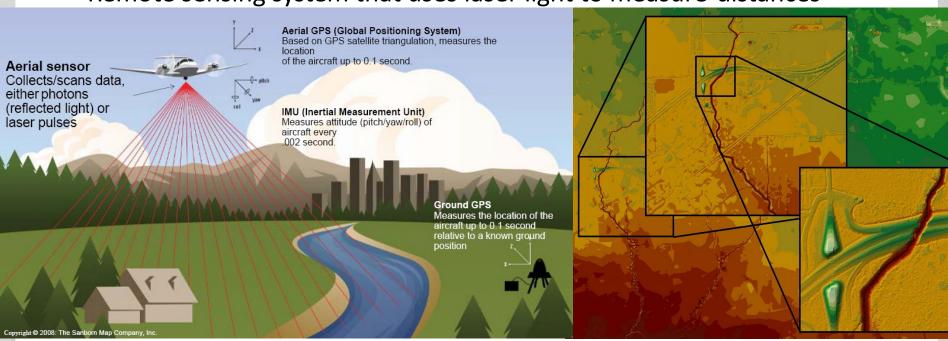
- After Harvey, Congress appropriated funds to complete the levee system, as part of the Bipartisan Budget Act of 2018, which became law in February 2018
- Special cost sharing rules for disaster relief were also included, allowing the project to be 100% Federally funded.
- Design and property acquisition are currently underway.
- New technology and data are being utilized for the final design
- Levee will be built to current USACE and FEMA criteria
- Construction duration will take 24 month





# LIGHT DETECTION AND RANGING (LIDAR)

• Remote sensing system that uses laser light to measure distances

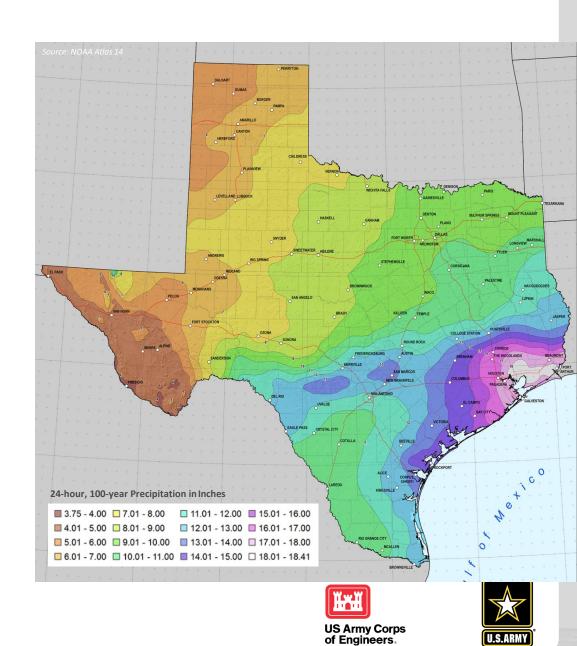


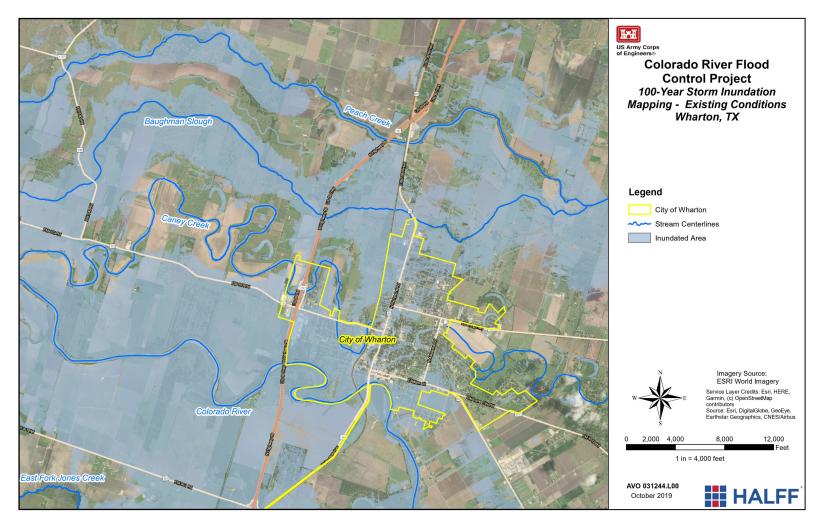




### ATLAS 14 RAINFALL

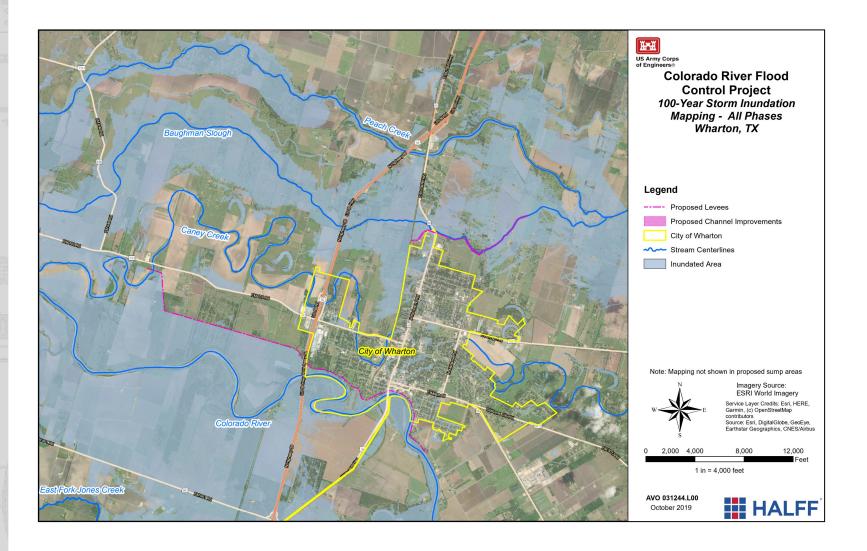
- Released September 27, 2018
- Atlas 14 indicates that the 1% (100year) annual chance event may be greater than what we previously considered.
- The greatest rainfall changes occur in central Texas and along the Texas coast.





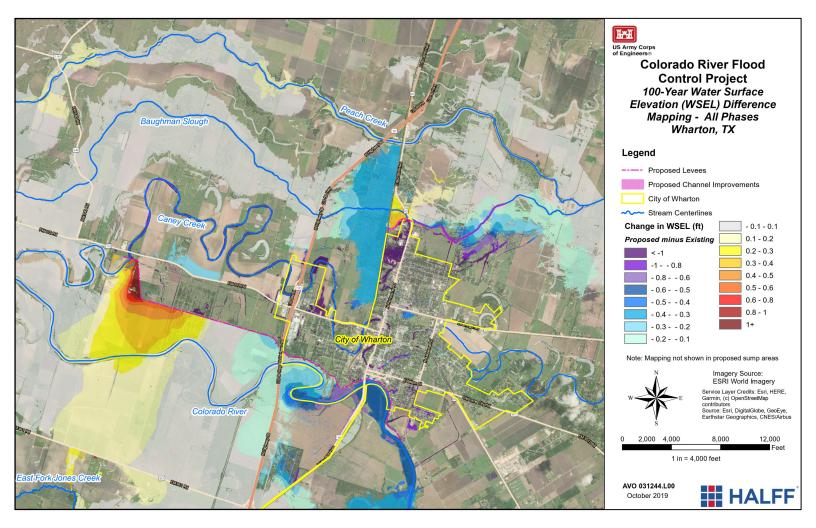






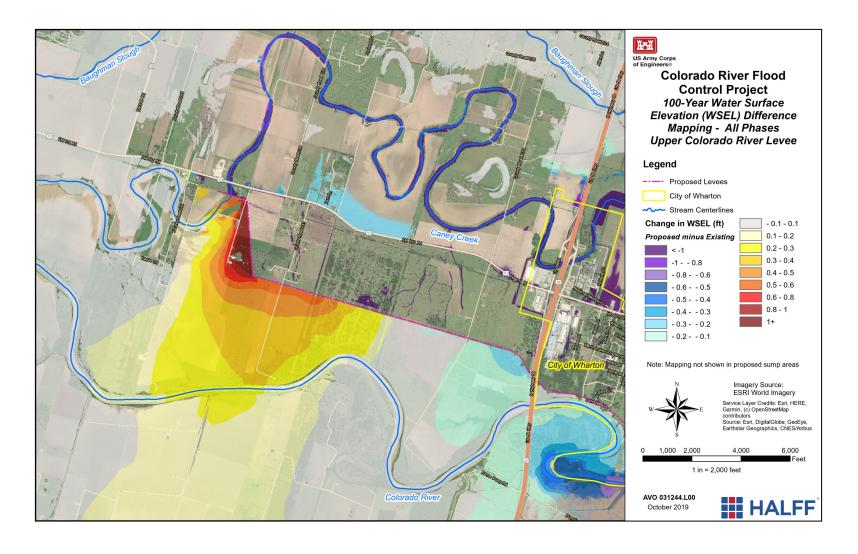






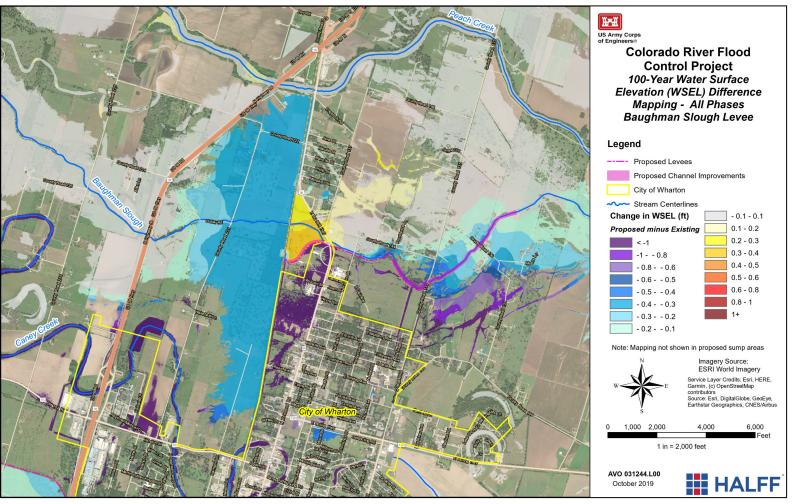












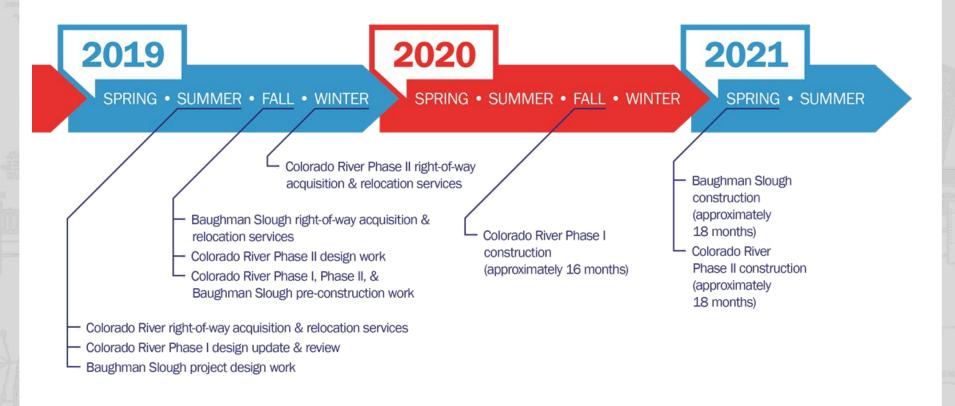








### MILESTONE SCHEDULE







### CONCLUSION

- Changes in water surface elevation are acceptable and appropriate for this sort of project.
- The design is ongoing and the final alignment is continuing to be refined





### City of Wharton:

http://www.cityofwharton.com/page/Levee%20Project

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