

## North Beach Coastal Protection (Bond 2018, Proposition A)

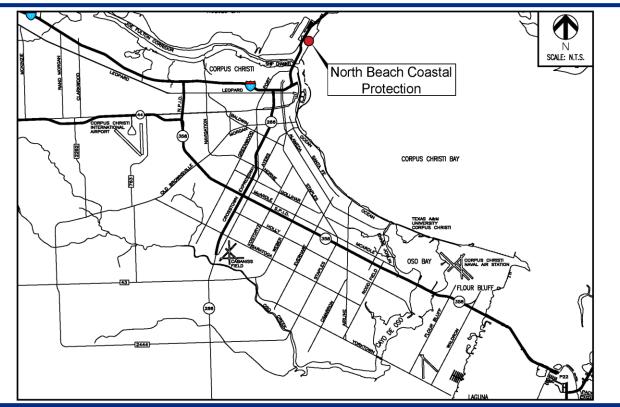


Council Presentation September 17, 2019



## **Project Location**

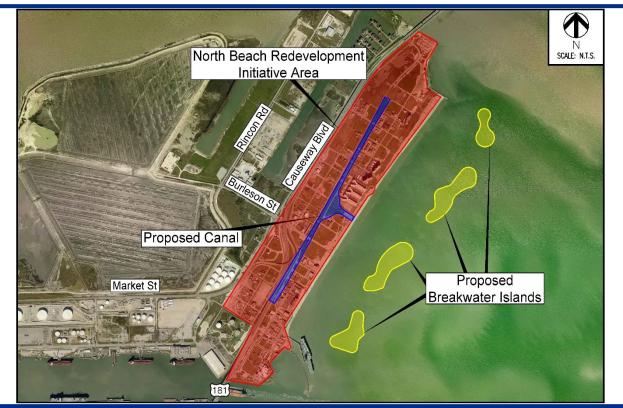






## **Project Location**







## **Project Scope**

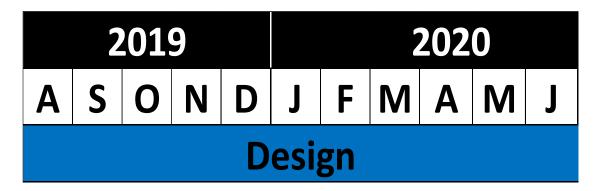


- Coastal engineering, modeling and alternative analysis that reflect current conditions of the project site including:
  - ✓ Analysis of water elevations
  - ✓ Wind generated waves
  - ✓ Passing vessel pressure effects
  - ✓ Tidal flows and circulation
  - ✓ Resulting tide, wind and storm impacts on project area
- Preliminary design including:
  - ✓ Basis of Design technical memorandum
  - ✓ Preliminary design level drawings compliant with design criteria
- Regulatory coordination including:
  - ✓ Coordination with the USACE
  - ✓ All supporting documentation for USACE coordination
- Design coordination with Lloyd Engineering, a firm that the Rachel Foundation hired to complete the geotechnical investigations for the proposed breakwater structure



## **Project Schedule**





Projected Schedule reflects City Council Award in August 2019 with anticipated preliminary design and permitting phase completion in June of 2020





# Questions?