

October 9, 2020

Mr. Mark Vogler, PE
General Manager and Chief Engineer
Fort Bend County Drainage District
1124 Blume Road
Richmond, Texas 77471

Reference: Project Brazos - Erosion Repairs on the Brazos River
Fort Bend County, Texas

Subject: Proposal for Professional Services

Dear Mr. Vogler:

Huitt-Zollars, Inc., in association with AECOM Technical Services; Halff Associates, Cibor Geoconsultants, appreciates this opportunity to present our proposal for providing professional services to the Fort Bend County Drainage District (FBCDD) for the planning, management, design and construction of Project Brazos - Erosion Repairs on the Brazos River in Fort Bend County, Texas (Project). Our proposal is based upon the following scope of services, budget and project schedule and the terms and conditions in Fort Bend County's Standard Professional Services Agreement.

PROJECT UNDERSTANDING

Due to the accelerated bank erosion on the Brazos River following significant flooding in 2015, 2016 and Hurricane Harvey in 2017, the Fort Bend County Drainage District, the City of Sugar Land and the City of Richmond retained Huitt-Zollars, Inc. to conduct geomorphologic studies of the meander migration and bank erosion at thirty (30) selected locations along the eighty nine (89) miles of the Brazos River in Fort Bend County, Texas. These selected locations focused on government infrastructure to include roads, levees, bridges, buildings and parklands along the river. The results of these studies are most disturbing. In less than 30 years, continuing erosion of the riverbank may cause loss of human life while threatening residences, roads, levees and Farm to Market Roads, State Highways and Interstate Bridges. Calculations based on infrastructure and property values show nearly \$10 billion is at risk due to the continuing river erosion. However, and most importantly, the breach of a levee during a major rain event will occur rapidly and could endanger the lives of 160,000 Fort Bend County residents who are protected from the river by levees.

Project Brazos addresses bank erosion at thirteen (13) of the most critical sites along the Brazos River in Fort Bend County. This Project is a regional approach with broad support from local, state and federal stakeholders to include TxDOT, the Brazos River Authority and the USACE - Galveston District and its Engineer Research and Development Center (ERDC) in Vicksburg, Mississippi. Currently, sixteen (16) Resolutions and a Letter of Support have been received supporting Project Brazos.

Project Brazos is estimated to have a project cost of \$360 million, has a benefit-cost ratio over 18 and can be completed within 8 years. Funding for this project is being sought through numerous federal, state and local initiatives. At its completion, Project Brazos provides protection to the lives of 160,000 Fort Bend County residents and their homes while safeguarding critical infrastructure, roadways and hurricane evacuation routes along state and interstate highways totaling over \$10 billion in value.

SCOPE OF SERVICES:

- 1.1 Huitt-Zollars shall provide the following services to FBCDD for this Project as specified in mutually agreed upon work authorizations issued by FBCDD.
 - 1.1.1 Program and Project Management to include Planning, Briefings, Presentations, Scheduling, Reports, Management of Consultants
 - 1.1.2 Community Outreach
 - 1.1.3 Stakeholder Coordination and Communications
 - 1.1.4 Coordination, preparation and submission of applications for funding to state and federal agencies
 - 1.1.5 Surveying to include Topographic, Boundary, Bathymetric, ROW Mapping, Preparation of Metes and Bounds Descriptions
 - 1.1.6 Environmental Investigations, Studies and Reports
 - 1.1.7 Geotechnical Investigations, Studies and Reports
 - 1.1.8 Coordination with Jurisdictional Agencies which may include Cities, Counties, Levee Improvement Districts, Municipal Utility Districts, TxDOT, UPRR, TDEM, US Army Corps of Engineers, Texas Parks and Wildlife Department, Texas Water Development Board, TxGLO, US Fish and Wildlife Service, FEMA and US Coast Guard
 - 1.1.9 Preparation and submission of Permit Applications
 - 1.1.10 Hydraulic and Hydrologic Engineering
 - 1.1.11 Engineering Design and Preparation of Construction Documents
 - 1.1.12 Contractor Procurement
 - 1.1.13 Construction Management and Inspection
 - 1.1.14 Other services as required by FBCDD

COMPENSATION:


- 1.1 Compensation will be specified in each mutually agreed upon work authorization issued by FBCDD.
- 1.2 We propose an initial budget of three hundred thousand dollars (\$300,000). The total compensation for the scope of services for Project Brazos is estimated to be around \$60 million. Additional work authorizations will be negotiated as funds become available.

SCHEDULE:

- 1.1 The performance period for these services will be specified in each mutually agreed upon work authorization issued by FBCDD. Based on the availability of funding, we anticipate this project will be completed in eight (8) years.

Mark, we appreciate this opportunity to work with you and your staff. Please send us an Agreement for our execution. Thank you.

Respectfully submitted,
Huitt-Zollars, Inc.


Gregory R. Wine, PE, LEED AP
Senior Vice President