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January 17, 2019

Mr. David Rabago, P.E., Utility Engineer  
City of Seguin  
P.O. Box 591  
Seguin, Texas 78156-0591

**RE: Walnut Branch Sewer Main, Phase III (30")  
West Kingsbury Street to New Braunfels Street  
Engineering Services Proposal**

Dear Mr. Rabago:

At the request of the City of Seguin, this letter represents TRC's engineering services proposal for the design, preparation of construction documents and bidding/construction administration for the above-referenced project. The project consists of approximately 3,400 linear feet of 30" diameter gravity sewer main within Walnut Branch, extending from the north side of West Kingsbury Street to New Braunfels Street (north side of the railroad).

The cost to provide the engineering services, based on the attached preliminary scope of work, is as follows:

Environmental/Cultural Resources	\$ 12,242	
Geotechnical	\$ 7,205	
Topographic Survey:	\$ 13,750	
Engineering Services:	\$ 136,418	
Total:	\$ 169,615	
Subsurface Utility Engineering (SUE):	\$ 8,470	(optional)
Total including SUE:	\$ 178,085	(lump sum basis)

The opportunity to provide this proposal is greatly appreciated. The services will be provided under the Master Services Agreement executed by the City and TRC. If you have any questions regarding this information, please feel free to contact this office.

Sincerely,

H. Craig Bell, P.E.  
Austin CES Practice Leader

1/17/19

Date

\_\_\_\_\_  
City of Seguin

\_\_\_\_\_  
Date

**CITY OF SEGUIN  
WALNUT BRANCH SEWER MAIN, PHASE III (30")  
WEST KINGSBURY STREET TO NEW BRAUNFELS STREET**

**ENGINEERING SERVICES PROPOSAL  
PRELIMINARY SCOPE OF WORK  
(01/17/2019)**

**ENGINEERING DESIGN SCOPE OF WORK:**

1. Provide environmental/cultural services (see below scope).
2. Provide topographical surveying for design only.
3. Prepare construction plans/specifications for the proposed project, including all details, for standard City of Seguin bid package.
4. Provide submittal package to TXDOT for utility work inside TxDOT ROW for HWY 78 and Walnut Branch, submittal package for crossing under Union Pacific Railroad and submittal package to TCEQ for project notification.
5. Assist the City in bidding process including preparation of advertisement document, assist the City in the opening and tabulation of bids, prepare award recommendation letter and prepare construction contract documents.
6. Assist the City during construction consisting of pre-construction meeting, contractor correspondence, submittal review, pay request review, periodic site visits (maximum of four), final inspection, preparation of contractor punch list and record drawing preparation (3 sets of hard copies and one CD electronic copy).

**EXCLUSIONS:**

The following items are specifically excluded from the scope of work:

- Construction staking.
- Continuous construction inspection.
- Detailed title search or title policy.
- Attendance at or preparation for condemnation hearings.
- Boundary surveys, Easement or Plat documents, landowner contact or easement negotiations.
- Archaeological surveys (if applicable).
- Endangered species mitigation plans/costs (if applicable).
- Species-specific threatened and endangered survey.
- Clean Water Act Section 404 individual permit.
- Fees for regulatory review (Railroad).
- Dye testing of existing sewer mains (This is recommended).
- Existing sewer main plugging to visually inspect the manhole flowlines.

## **ENVIRONMENTAL/CULTURAL SCOPE OF WORK:**

The proposed Scope of Work includes a site survey for potential waters of the U.S. in accordance with U.S. Army Corps of Engineers (USACE) regulations, a habitat assessment for federally and state-listed threatened and endangered (T&E) species, a cultural resources file search and coordination with the Texas Historical Commission (THC), and a Nationwide Permit (NWP) 12 with Pre-construction Notification (PCN).

### **TASK 1: Natural Resource Services**

TRC will perform an investigation of the natural resources within the proposed project area to identify existing conditions and determine the presence of sensitive natural resources that could potentially be impacted by the proposed project. The natural resources investigations will consist of a background data review and field survey. Results of the investigation will be used in support of USACE reporting and permitting requirements.

#### **Waters of the U.S. Delineation**

TRC will perform a background review of existing and available data, including U.S. Geological Survey (USGS) topographic maps, USFWS National Wetland Inventory (NWI) maps, U.S. Department of Agriculture Natural Resources Conservation Service (NRCS) Soil Surveys, Federal Emergency Management Agency (FEMA) floodplain maps, aerial photography, as well as other available planning maps and reports.

Following the background data review, TRC biologists will conduct a field survey to determine the location and extent of any potential waters of the U.S., including wetlands, within the proposed project area. The survey will be performed in accordance with methods described in the 1987 Corps of Engineers Wetlands Delineation Manual (USACE 1987) and Regional Supplement to the Corps of Engineers Wetlands Delineation Manual: Great Plains Region (Version 2.0; USACE 2010). The boundary of water bodies potentially subject to USACE jurisdiction are defined by the Ordinary High Water Mark (OHWM), except where wetlands are present. The OHWM is the line on the water body's bank established by the presence and/or fluctuations of water, and is indicated by physical characteristics such as a clear, natural line impressed on the bank, shelving, and/or changes in the character of the soil. Vegetation, soils, and hydrology will be recorded for each wetland and non-wetland site on appropriate USACE field data forms, if needed. The boundaries of the wetlands will be marked in the field with flagging at intervals necessary to accurately depict the wetland boundary. Data collection sites and jurisdictional wetland and/or water body boundaries will be surveyed using a sub-meter Global Positioning System (GPS) unit.

#### **Habitat Assessment for Threatened and Endangered Species**

In accordance with USACE Section 404 permitting requirements, the Endangered Species Act of 1973, and State of Texas regulations, TRC will perform a background review of existing and available data to determine the potential for protected species to occur within the project area. The background data review will include a search for the current listing of Federal and State-listed rare, threatened, and endangered species for Guadalupe County; federally-designated Critical Habitat; the Texas Parks and Wildlife Department's (TPWD) Texas Natural Diversity Database (TXNDD); as well as other available data to assess the potential for protected species to occur within the project area.

Following the background data review, TRC biologists will conduct a survey concurrent with the waters of the U.S. delineation for T&E species habitat, vegetation communities, and other sensitive natural resources that may be present within or adjacent to the project area. TRC will identify

predominant vegetation communities and address their abilities to provide habitat to support T&E species.

#### Section 404 Permitting and U.S. Army Corps of Engineers Coordination

Based on a preliminary review of current project information provided by project engineers, TRC anticipates that the Project would require a USACE Section 404 Nationwide Permit (NWP) 12 (Utility Line Activities) with Pre-construction Notification (PCN) due to the Project's location within Walnut Branch.

On behalf of the City, TRC will complete and submit a draft NWP 12 PCN application to the City for review and comment. TRC will incorporate one round of editorial comments provided by the City and prepare one electronic copy and one hard copy of the final NWP 12 PCN application within 5 working days of receipt of comments for submittal to the USACE – Fort Worth District.

#### **TASK 2: Cultural Resource Services**

TRC will perform a desktop review to identify existing conditions and identify documented cultural resources within the area of potential effect (APE) that could potentially be impacted by the proposed Project. This data will be summarized in a letter of consultation and submitted to the THC for review.

#### THC Consultation

TRC will perform an archeological site file search using the THC Archeological Sites Atlas (THC Atlas) to compile current information on recorded cultural resources that are situated within a 1-mile radius of the APE. Other documents, including historic aerial photographs, USGS topographic maps, Sanborn maps, Texas General Land Office (GLO) documents, Historic Texas Overlay Database maps, and cemetery records may also be reviewed. The results of this site file search will be compiled in a letter of consultation for submission to THC. THC will review the letter of consultation and provide a response within 30 days of submission.

#### **ASSUMPTIONS:**

TRC proposes to complete the services identified in this SOW with the following assumptions:

- Where necessary, the City will be responsible for arranging property access prior to commencement of the field survey for properties not located within public right-of-way. TRC will not perform any field investigation on properties where access has not been granted.