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May 4, 2018

Mr. Joe Ramos, P.E., City Engineer
City of Seguin
P.O. Box 591
Seguin, Texas 78156-0591

RE: Milam Street
Street Reconstruction, Drainage and Sanitary Sewer Project
Engineering Services Proposal (Revision 1.0)

Dear Mr. Ramos:

As requested by the City, TRC Engineers, Inc. has prepared this proposal for professional engineering services for the proposed Milam St. street reconstruction, drainage and sanitary sewer project.

The project consists of approximately 3,800 linear feet of improvements on Milam Street, consisting of the installation of storm sewer mains, street reconstruction, sidewalks, and sanitary sewer utility replacement. The services provided will include confirmation of drainage area and stormwater runoff flows from the RSMH engineering report, storm sewer sizing and construction cost estimates. At the request of the City, TRC will provide a presentation to City Staff and City Council.

The project limits consist of the following:

- Street reconstruction, storm sewer and sidewalks for Milam Street extending from Mountain Street to the southern TxDOT right-of-way of Kingsbury Street.
- Base engineering sanitary sewer of pipe bursting or cured-in-place for Milam Street extending from Mountain to Bismark Street.
- Topographical survey will extend 100 feet down all cross streets and alleys.

TRC Engineers, Inc. will perform the following Scope of Work:

PRELIMINARY ENGINEERING SCOPE OF WORK

1. Confirm drainage areas and runoff flows for Milam Street from the RSMH engineering report (10 year event).

2. Size storm sewer mains and stubouts (for future phases) at the lateral streets based on the RSMH engineering report (10 year event).

3. Confirm drainage areas where the street will carry the storm water runoff and areas where storm sewer will carry the runoff from the RSMH engineering report (10 year event).

4. Determine extents of improvements for sanitary sewer replacement from Mountain to Bismark Street.

5. Provide Opinion of Probable Construction Costs for all proposed work.

6. Prepare maps and diagrams as needed.

7. Provide City Council presentation, if needed.

ENGINEERING DESIGN SCOPE OF WORK

1. Acquire field topographical data for the design portion of the project on City's coordinate system, to include:
   a) Detailed survey including utility locates (as furnished by the specific utility provider) within Milam Street City right-of-way.
   b) Less detailed survey including utility locates to confirm conflicts with future drainage within the lateral streets and alleys, extending 100 feet from Milam Street.
   c) Stake the project right-of-way a maximum of two (2) times.
   d) Provide subsurface utility engineering (SUE) for utility locates.

2. Provide survey field notes for:
   a) Three (3) land acquisitions.
   b) Two (2) pedestrian easements.

3. Acquire geotechnical borings and geotechnical report for the design portion of the project. (maximum of 10 bores at 15 feet deep and 20 cores at 2 feet deep)

4. Submit applications and acquire acceptance and/or permits for:
   a) Handicap Accessibility (ADA/TDLR)
   b) Texas Commission on Environmental Quality (as applicable)
   c) TxDOT

5. Prepare construction plans/specifications for the proposed project, including all details, consisting of:
   a) Sanitary sewer (from Mountain to Bismark Street), plan sheets only for base engineering, plan and profile sheets for alternate engineering.
   b) Storm sewer (connect to existing storm sewer on Milam Street from RSMH project).
   c) Street re-construction.

d) Sidewalks (to include retaining wall design, as needed).
e) Potable water (fire hydrants and meter adjustments only, as needed).

An additive alternate bid item will be provided for street reconstruction for the portion from College to Kingsbury Street. For the sanitary sewer portion, the base engineering will consist of either pipe bursting or cured-in-place and the alternate engineering will consist of open cut remove and replace, which will only be used if the sanitary sewer conflicts with the storm sewer.

6. Construction plans shall include as a minimum:

a) General Sheets
b) Street Improvements
c) Street Cross Sections and Intersections
d) Street Striping and Signage
e) Sanitary Sewer Improvements
f) Storm Sewer Improvements
g) Miscellaneous Details
h) Traffic Control Plan
i) SWPPP and Erosion Control Plan

7. Provide design submittals to the City for review for 60%, 90% and 100% completion milestones.

8. Prepare traffic control plan for project extents.

9. Acquire information from the franchise utilities (gas, telephone, cable, etc.) and determine need for relocation. The City will provide direct correspondence with the franchise utilities.

10. Attend public outreach meetings to discuss the proposed project (maximum 2).

11. Organize and participate in construction pre-bid meeting and provide visual presentation, as needed.

12. 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.

13. Prepare conformed set of construction documents to reflect any project addendums or modifications.

14. Assist the City during construction consisting of pre-construction meeting, contractor correspondence, submittal review, pay request review, periodic site visits (maximum of 12), final inspection, preparation of contractor punch list and record drawing preparation (3 sets of hard copies and one CD electronic copy). Record drawings will be based on the information furnished by the contractor, reflecting changes in the project made during construction.

ENVIRONMENTAL SCOPE OF WORK

TRC proposes this Scope of Work (SOW) for the following task:

Task 1: 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.

Desktop Review and THC Consultation Letter
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. The results of this site file search will be compiled in a letter of consultation for submission to THC.

If THC concludes that the proposed undertaking could impact existing archeological sites or areas of high archeological potential, then they will require further investigation not included in this scope.

ASSUMPTIONS

As the basis for the preparation for this proposal and the associated cost of services, the following assumptions were made which, if found to be incorrect may result in additional compensation:

- The City will provide access agreements for access to all private properties.
- Monthly progress meetings will be held during engineering design and construction.
- All proposed streets will be curb and gutter.
- Sidewalks will be located only on one side of the street.
- The storm sewer mains and appurtenances will be sized based on a 10-year storm event and will connect to the storm sewer on Milam Street from the RSMH project.
- The entire project will consist of a single bid/construction project.
- All electrical poles will remain in their current location.
- TRC's effort and costs for construction services are based on a twelve month construction project duration.

EXCLUSIONS

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

- Design of potable water main replacement.
- Design of improvements or relocations for gas lines, electrical lines, telephone lines or other franchise utilities.
- Construction staking.
- Continuous construction inspection.
- Environmental or cultural review of project limits (other than listed above).
- Detailed title search or title policy.
- Attendance at or preparation for condemnation hearings.
- Plat documents, landowner contact or easement negotiations.
- Archaeological surveys (if applicable).
- Detention pond design.
- Endangered species mitigation plans/costs (if applicable).
- Species-specific threatened and endangered survey.
- Clean Water Act Section 404 individual permit.
- Design of Landscaping and/or irrigation design (if applicable).
- Street lighting design.
- Design of bank stabilization (if applicable).
- Trenching equipment needed for THC field survey (if applicable).
- Sanitary sewer design from Bismark to Kingsbury Street.
- Electrical pole design.
- Quality assurance testing for construction.
- GIS mapping.
- Post construction survey.
- Services required to rebid the project for any reason.

COMPENSATION FOR SERVICES

The cost to provide the engineering services will be invoiced as a lump sum project, as follows:

Topographical Surveying:	$ 31,350	
Subsurface Utility Engineering:	$ 44,880	(levels B, C and D)
Easement Field Notes for:		
• Three (3) Land Acquisitions	$ 3,750	($1,250 per each)
• Two (2) Pedestrian Easements	$ 2,500	($1,250 per each)
Geotechnical Services and Report:	$ 21,453	
Environmental Services:	$ 3,683	
Engineering Design and Bidding/Construction Administration:	$ 370,672	
ADA/TDLR Application Fees:	$ 5,000	
Subtotal:	$ 483,288	(lump sum)
Alternate Engineering (Sewer Remove/Replace):	$ 25,000	(maximum, $5,000/each for five sheets)
Total:	**$ 508,288**	**(lump sum)**

Services will be provided in accordance with the Master Service Agreement (dated December 16, 2003) executed by the City and TRC. Fees for services quoted in this proposal are valid for a period of time not to exceed 60 days from the date of this letter.

We appreciate the opportunity to assist with this project and are available to proceed immediately with your written approval. Please review this proposal and, upon acceptance, sign in the space provided below.

Sincerely,

Craig Bell

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

5/4/18
Date

Douglas G. Faseler
City Manager

Date