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March 23, 2021

Mr. James Billeck, PE
City Engineer
3210 E. Avenue H
Building A
Temple, Texas 76501

Re: City of Temple, Texas
Ave G Pump Station Improvements – Proposal for Final Design and Bidding Services

Dear Mr. Billeck:

This letter proposal is in response to your request for engineering services required for final design services associated with improvements to the Ave G Pump Station. Various options (A, B and C) for improvements to the Ave G Pump Station were investigated and summarized in the Preliminary Engineering Report (PER) dated January 15, 2021. A site map showing the location of the existing and proposed pump station is included as Attachment A. The Scope of Services, included as Attachment B to this proposal, is based on the recommended Option A which consist of constructing a new pump station adjacent to the existing pump station and abandoning the aged existing pump station. The scope generally includes the design of a new, stand-alone pump station and utilizing the existing pump station building for storage. Our preliminary opinion of probable construction cost (OPCC) for these improvements included in the PER is \$4,350,000. Attachment C contains an itemized breakdown of this OPCC.

In order for us to provide the services required for completion of the proposed Scope of Services, the following not-to-exceed lump sum amounts will be applicable. The lump sum fees are directly related to the scope items.

AVENUE G PUMP STATION IMPROVEMENTS:

Task 1 – Geotechnical Investigation (Langerman Foster Engr.)	\$ 5,400.00
Task 2 – Final Design	
A. Civil Design (KPA Engineers)	198,500.00
B. Electrical/SCADA/HVAC Design (SKE)	91,580.00
C. Structural Design (Dudley/Dunham)	33,100.00
Task 3 – Bidding	16,670.00
Total	\$ 345,250.00

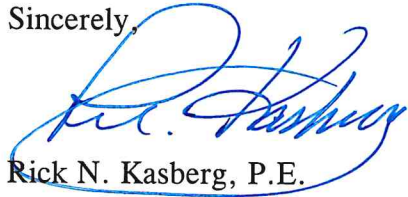
Mr. James Billeck, PE

March 23, 2021

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We anticipate our efforts can be completed within 270 calendar days from receipt of a Notice to Proceed. We are available to address any questions or comments you may have and appreciate the opportunity to submit this proposal.

Sincerely,

A handwritten signature in blue ink, appearing to read "Rick N. Kasberg", is written over a blue circular line that forms a partial circle around the text "Rick N. Kasberg, P.E." below it.

Rick N. Kasberg, P.E.

RNK/crc

2020-120-20

ATTACHMENT B

City of Temple, Texas Avenue G Pump Station Improvements Scope of Services March 23, 2021

TASK 1 – GEOTECHNICAL INVESTIGATION

- 1.1 Contact Texas 811 System for utility locations.
- 1.2 Conduct one (1) subsurface soil boring to a depth of 20 feet east of the existing Pump Station building.
- 1.3 Describe subsurface materials and conditions observed during soil boring including bore log.
- 1.4 Describe groundwater observed during boring operations.
- 1.5 Prepare foundation design criteria.
 - a. Volume change estimates of expansive soils (Potential Vertical Rise)
 - b. Suitable foundation types and depths
 - c. Allowable bearing loads
- 1.6 Pavement thickness design for asphalt replacement
- 1.7 General earthwork and construction criteria including geotechnical material specifications
- 1.8 Prepare Geotechnical Investigation Report

TASK 2 – FINAL DESIGN

- 2.1 30% Plan Sheets – Engineer shall perform services for the 30% design review submittal for the following:
 - a. Pump Station
 - (1) Pump Selection and final layout
 - (2) Variable Frequency Drives (VFDs)
 - (3) Restroom and Gas Heater Plumbing
 - (4) Traveling Bridge Crane
 - (5) Demolition of existing pumps, piping and electrical panels
 - (6) Replacement of existing gas heater, fans and lighting in existing pump room (future storage area)
 - (7) Paint existing CMU wall in pump room
 - (8) Ventilation
 - (9) Structural – Foundation, Building, Crane Support System and Meter Vaults
 - (10) Electrical
 - b. MCC Room
 - (1) Electrical/SCADA
 - (2) HVAC
 - (3) Structural

- c. Discharge Piping
 - (1) Layout
 - (2) Structural
- d. Meter Vaults
 - (1) Layout
 - (2) Electrical/SCADA
 - (3) Structural
- e. Site Plan
 - (1) Grading/Drainage
 - (2) Paving
 - (3) Piping
 - (4) Structures
 - (5) Electrical – New ONCOR Electrical Service Transformer Pad
- 2.2 30% Plan Review Meeting
 - a. Prepare Updated OPCC
- 2.3 Determine requirements for construction activities in Railroad R.O.W. and prepare permit if necessary. The cost for permit fees are not included in this proposal.
- 2.4 Coordinate with ONCOR for a new 480/277 volt, 3 phase, 4 wire electrical service
- 2.5 60% Plan Sheets and Technical Specifications
 - a. Same components as Item 2.1 (30% Review Set)
- 2.6 60% Review Meeting
 - a. Prepare Updated OPCC
- 2.7 90% Plan Sheets and Technical Specifications
 - a. Same components as Item 2.1 (30% Review Set)
- 2.8 90% Review Meeting
 - a. Prepare Updated OPCC
- 2.9 Incorporate comments from 90% Review Meeting into Final Bid Set
 - a. Prepare Final OPCC
- 2.10 Periodic progress meetings with City Staff and project updates/emails to allow design issues to be addressed as required.

TASK 3 -- BIDDING

- 3.1 Prepare the tabulation of bid items and quantities for insertion into Contract Documents and Bid Schedule/Forms.
- 3.2 Solicit bidders for the project by sending e-mails and web links and calling prospective contractors.
- 3.3 Provide necessary bid documents and bid solicitation information for the construction project.
- 3.4 Coordinate, attend, and moderate pre-bid conference to be held onsite at TBWWTP.
- 3.5 Prepare addenda as appropriate to interpret, clarify, or expand the bidding documents.
- 3.6 Attend bid opening, prepare bid tabulation sheets, and provide the following assistance to owner:
 - a. Review bids for compliance with bid documents. Evaluate low bidder including workload, references and financial status and other information as required to support a recommendation of award.

- b. Submit a written recommendation to owner detailing the bids received and the evaluation of the recommended bidder and any other low bidders.
- 3.7 Attend City Council Meeting at which construction contracts are awarded.
- 3.8 Prepare conformed Contract Documents incorporating addenda for owner and contractor.
- 3.9 Modify drawings to incorporate changes by addenda and assemble executed Contract Documents, Construction sets of Plans and Specifications.

A separate proposal for construction administration and on-site representation services will be submitted after receipt of bids.