



Memo

To: Clay Pearson, City Manager

From: Skipper Jones, Assistant Director Engineering & Projects

CC: Jon Branson, Deputy City Manager
Trent Epperson, Assistant City Manager
Robert Upton, Director Engineering & Projects
Andrea Brinkley, Assistant Director of Public Works

Date: March 27, 2018

Re: Award of Preliminary Engineering Contract for Surface Water Treatment Plant, Package #3

3/29/2018
To: Mayor and City Council members
Advance info for surface water treatment plan-associated engineering work. Clay

Purpose

This memo provides pre-award notification regarding the planned award of Preliminary Engineering Services contract for Package #3 of the Surface Water Treatment Plant project to Stantec Consulting Services, Inc.

Background

In April, 2017, based on a Staff recommendation, Council awarded a contract to Dannenbaum Engineering for Package 3 of the Surface Water Treatment Plant. As a result of a federal investigation opened two days later this contract was rescinded August 7, 2017 requiring a replacement of this engineering consultant.

The large and complex Surface Water Treatment Plant design effort has been divided into three distinct engineering design packages coordinated by project staff and a consultant acting in the role of Owner's Representative. Package 1 is the Pre-sedimentation Basin and Low-Lift Pump Station; Package 2 consists of the Treatment Plant itself and Package 3 consists of the on-site Ground Storage Tanks, a High-lift Pump Station and the Transmission Pipelines from plant to points within the distribution system. All three engineering packages will go through a preliminary design phase prior to moving into Final Design phase.

Package 3 Preliminary Design Phase Scope consists of a route study for the future transmission line routes and, once identified, the waterline easement acquisition process to acquire access for the installation of those transmission lines to the points in the distribution system where the new water will enter the system. Other major components include the preliminary design of the plant's ground storage tanks and the sizing and design of the high-service water pump station and Operations Building housing operations control, training room, laboratory, staff offices and locker rooms, electrical room and IT/Server room and the wastewater lift station and force main.

Seeking to identify the most qualified firm or team to provide these services, Staff used its standard two phased professional services qualification based selection process consisting of an open Request for Qualifications published in late August, 2017. Six well qualified firms responded and the information presented was reviewed, evaluated and ranked in late October. Three firms were interviewed in late December, 2017 and the selection committee, consisting of

City Staff only, selected the firm of Stantec Consulting Services, Inc. in February, 2018 as the most qualified firm to perform these services.

Current Status

In late February 2018, Staff requested Stantec prepare a scope of work based on previous efforts to identify the full extent of the package preliminary engineering needs. On March 12 Staff met with Stantec to review and comment on the scope for both Basic Services and Additional Services. Basic Services include preliminary design of the Pump Station and Ground Storage Tanks including hydraulic calculations to allow full use of volumes in the tanks. Architectural schematics and development of standards and details for the “public face” of the facility and the High service pump building and public access areas. This effort includes the mechanical, electrical and plumbing plans and details as well as instrumentation and control requirements for the systems. For the route study, the scope includes the evaluation of several possible alignments and alternates and a recommendation for each line route; surveying and preparation of easement parcels, hydraulic analysis of the lines, a water quality study and preparation of the pipeline design criteria. Design of the wastewater force main from the plant to a location to be determined in the existing sanitary sewer system for wastewater disposal. A review and identification of permitting requirements including Corps’ Wetlands and State or county permitting. Finally, the preparation of the Preliminary Engineering report consisting of the compilation of the various technical memoranda from the above work. Fees for these Basic services will be based on a Lump Sum and total \$980,000.00

Additional Services include full Surveying of the routes both topographic and metes and bounds in addition to the development of easement instruments for the eventual waterline easements required for the installation of the lines. Utility conflict analysis including subsurface utility engineering (SUE) and potholing of potential obstructions within the final routes. Geotechnical investigation including full scope of geotechnical borings for the lengths of the transmission lines to a depth of approximately 20 on average and on approximately 1000 foot centers to satisfactorily sample below grade conditions. The standard Phase 1 Desktop Environmental study of lands within the routes for potential environmental hazards. The required National Environmental Protection Act (NEPA) compliance categorical exclusion study and report. This work includes permitting through the various agencies and Public Outreach meetings. Fees for these Additional Services will be perform on a unit-cost basis (hourly) and are estimated to total \$905,000.00

At the time of this memo the Total Contract value is \$1,885,000.00. Fees are in final negotiation and may change by the time the contract reaches Council for approval and award.

Next Steps:

On April 9, Staff plan to present this contract to Council for consideration and award and to issue a Notice to Proceed immediately upon full and final execution of the contract in an effort to accelerate this work and to complete close to the same schedule with the work of Packages 1 (pre-sedimentation basin) and 2 (the plant). This may require a separation of preliminary design information and submittals of preliminary engineering for facilities “inside the fence” storage tanks, pumps and operations center building to coordinate with the completion of Packages 1 and 2. Transmission line preliminary engineering and land acquisition may extend beyond the initial completion dates due to the late start and the independence of these components.

Budget:

	<i>Budget</i>	<i>Encumbered</i>	<i>Change Orders</i>	<i>Balance</i>
<i>Prelim. Eng.</i>	\$8,000,000.00	\$7,428,614.83		\$571,385.17
<i>Land</i>	\$900,000.00			\$900,000.00
<i>Engineering</i>	\$9,900,000.00	\$2,395.40		\$9,897,604.60
<i>Construction</i>				\$0.00
<i>FF&E</i>				\$0.00
<i>Contingency</i>	\$1,875,000.00			\$1,875,000.00
Total	\$20,675,000.00	\$7,431,010.23	\$0.00	\$13,243,989.77

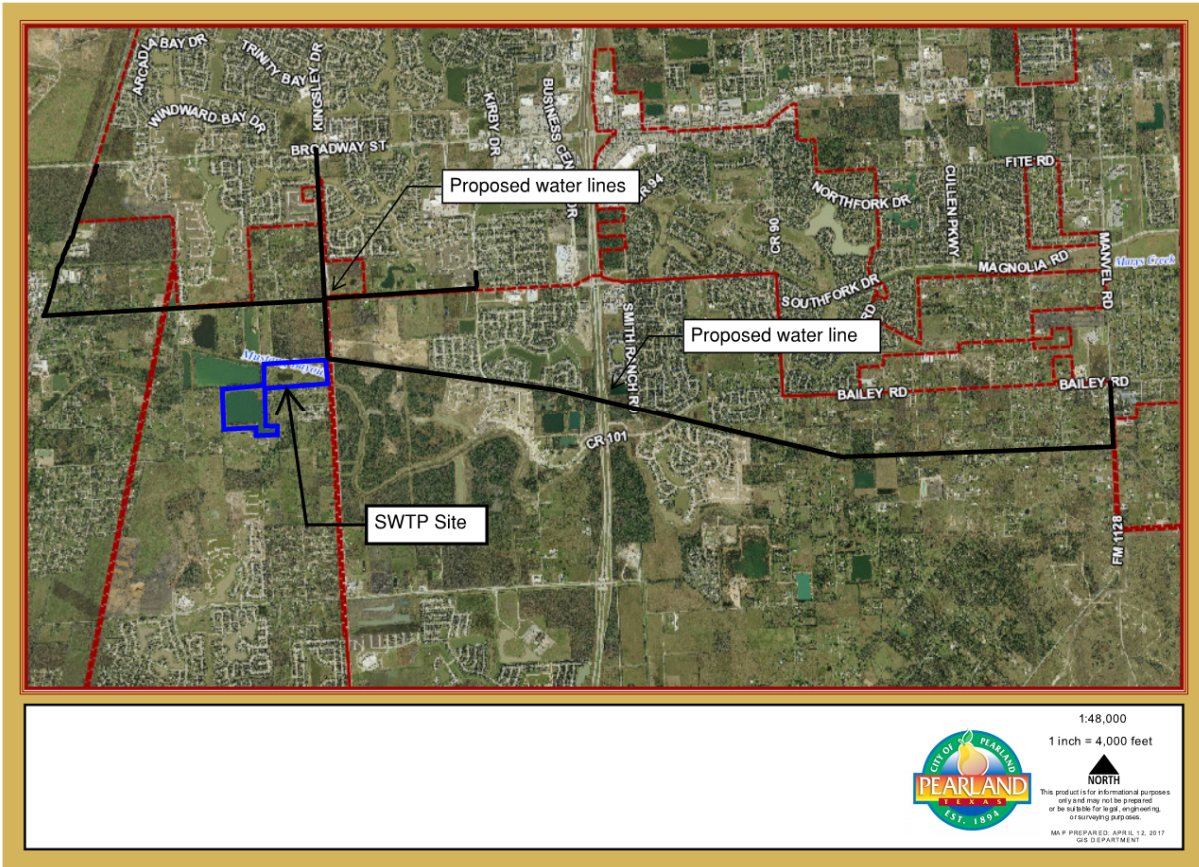
Schedule:

	<i>Base Line</i>	<i>Current</i>
<i>Design Start</i>	March-17	May-17
<i>Bid Start</i>	March-20	
<i>Construction Start</i>	May-20	
<i>Proposed Construction Completion</i>	December-22	

Recommendation:

Staff will recommend that Council approve the proposal and award the contract for Preliminary Engineering Services for Package 3 of the Surface Water Treatment Plant to Stantec Consulting Services, Inc. in the total amount of \$1,885,000.00

SURFACE WATER TREATMENT PLANT



1:48,000
1 inch = 4,000 feet

NORTH

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MAP PREPARED: APRIL 12, 2017
GIS DEPARTMENT