



Memo

7/3/2019

To: Mayor and City Council members

Memo detailing the upcoming award of three construction contracts to relocate and upgrade lift stations, force mains, and sanitary sewer lines in advance of the Mykawa Road widening project. -Trent

To: Clay Pearson, City Manager

From: Jaime Dino, Construction Manager

CC: Jon Branson, Deputy City Manager
Trent Epperson, Assistant City Manager
Robert Upton, P.E., Director Engineering & Projects
Skipper Jones, Assistant Direct Engineering & Projects
Cara Davis, Senior Project Manager
Clarence Wittwer, Public Works Director
David Van Riper, Assistant Public Works Director-Utilities

Date: July 3, 2019

Re: Pre-Award Contract for Mykawa Lift Stations – Package 1, Package 2, Package 3, and Materials Testing Contract

Purpose

This memo provides an update on the three construction packages for the Mykawa Lift Station (LS) project (Package 1, Package 2, and Package 3) and the forthcoming recommendation for award of contracts for construction and material testing. These contracts are scheduled for presentation to Council on the July 8, 2019 meeting agenda.

Background

This project grew out of need to relocate the City's sanitary sewer infrastructure to accommodate the future widening of Mykawa Road scheduled for 2021/2022. The project relocates the Mykawa/Scott LS, abandons the Shank LS, relocates/upgrades the Orange Street LS and improves/expands the capacity of the collection system within the service area including the Orange Street gravity line to Hatfield Road.

Scope (see attached map)

The proposed relocation of the Orange Street LS will expand the capacity of the sanitary sewer service area to accommodate ultimate build-out by increasing the line size of the 2,870 LF of 12-inch gravity sewer main, south of Hickory Slough along Mykawa Road. The existing Shank Road LS will be decommissioned and replaced with 560 LF of 12-inch gravity sanitary sewer main that will flow towards the new Orange Street lift station. The new lift station will pump through 2,550 LF of proposed 8-inch force main to a new manhole at the intersection of Orange Street and Woody Road. Approximately 2,070 LF of 8-inch sanitary sewer gravity main will be upsized to 12-inch by pipe bursting from the new manhole at the intersection of Orange Street and Woody Road. The upsized 12-inch sewer line will continue along Hatfield Road for approximately 1,200 LF south of Orange Street where it will tie into the top end of the Hatfield trunk sewer line installed in 2015. This reconfiguration removes wastewater flows from the Shank Road area from the Barry Rose Water

Reclamation Facility (WRF) service area and sends them to the JHEC WRF service area. The transfer of the wastewater between the two service areas is accounted for in the future expansions of each WRF

The new Mykawa/Scott LS has been designed to collect sanitary sewer flows from the existing service area and some additional flows from the proposed 1,120 LF of 12-inch gravity sanitary sewer north of Hickory Slough and Scott Street increasing the total service area. The proposed lift station will pump through approximately 2,550 LF of new 8-inch force main to a new manhole west of State Highway 35. This lift station discharges into the gravity collection system for the Barry Rose WRF.

Once both lift stations are in service, the existing sanitary sewer system along Mykawa Road will be abandoned. This includes: decommissioning three existing lift stations (Shank Road LS, Mykawa/Scott LS, Orange Street LS) and abandoning in place the existing 10" sanitary sewer line along the east side of Mykawa Road making way for the roadway's expansion.

In summary, the project expands our system while reducing the number of lift stations by one and eliminates the conflicts with the Mykawa Road widening.

Current Status

Initially, the Mykawa Lift Station project was advertised in February 2019. Bids were opened on March 07, 2019. No complete bids were received. Based on contractor feedback the lack of complete bids was because the project included three distinct types of construction. Project Staff re-packaged the project into 3 separate packages and respective scopes, as follows:

- Package 1 - Pipe Bursting: Hatfield Road to Orange Street.
- Package 2 – Lift Stations and Mykawa Road Gravity Sewer. (This package also includes abandoning all gravity sewer mains along with the decommissioning of 3 existing lift stations along Mykawa Road)
- Package 3 – Force mains: Orange Street and Scott Street.

The second round of advertising for the three packages began on April 24, 2019. The mandatory pre-bid meeting was held on May 02, 2019. The meeting was well attended by seventeen contractors, representatives from 5Engineering, LLC, and City Staff. A total of two addendums per package were issued in response to inquiries prior to the bid opening. Bids were opened on May 23, 2019.

When bids were open, CRMCS submitted the lowest bid but had failed to attend the mandatory pre-bid meeting and did not submit required supporting documentation including the Bid Proposal, Bid Security, nor the Non-Collusion statement. Due to the incomplete bid package and non-attendance at the mandatory pre-bid, CRMCS bid was considered non-responsive. City staff agrees with the Engineer's recommendation to reject CRMCS's bids on all three packages as Non-Responsive and award to the lowest responsible and responsive bidders.

Given the above rejection of the Non-Responsive bids, the low responsible bidder on Package 1 and Package 3 is Nerie Construction LLC. Black Castle General Contractor is lowest responsible bidder on Package 2. Both of these bidders submitted complete bid documents and met all other bidding requirements. Neither the City nor the Engineer have worked with Nerie on previous projects but three responding references gave the Engineer positive recommendations for this relatively new company that specializes in in-situ reconstruction work. Black Castle has not performed work directly for the City but has worked with the City as part of a Developer Agreement with the Lake Park development on the construction of the initial segment of

the McHard Trunk Sewer and lift station. Their performance on that project was acceptable and they completed the project in an orderly and timely fashion. On the July 22nd Agenda, Staff will recommend the contracts for construction to be awarded as follows.

- Package 1 – Nerie Construction, LLC for \$716,362.50
- Package 2 – Black Castle General Contractors for \$4,424,640.00
- Package 3 – Nerie Construction, LLC for \$947,221.00

On that same Agenda, Staff will present a materials testing contract for Alpha Testing in the amount of \$53,000.00. The contract is based on time and material based testing services for all 3 Packages. Staff considers the scope to be complete and the fee to be reasonable considering the depth and complexity of the construction work.

Alpha Testing will be responsible for ensuring that the material and methods of placement conform to the City’s construction plans and meets City Specifications. The services include:

- Field observations and in-place density testing during trenching and pavement placement.
- Laboratory testing of soil materials.
- Laboratory testing of the asphaltic pavement.
- Laboratory testing to evaluate compressive strength of cement stabilized sand and concrete.
- Observation of compaction procedures, mix temperature, and placement techniques.
- Provide pass/fail reports of construction material.
- Construction materials consultation and recommendations.

Budget Info

Funding Sources	Series	To Date	Future	Total Budget
General Revenue - Cash				-
Certificates of Obligation				-
Certificates of Obligation				-
W/S Revenue Bonds	2017	795,000		795,000
W/S Revenue Bonds	2018	5,551,620		5,551,620
W/S Revenue Bonds				-
Impact Fee - Debt				-
Other Funding Sources		501,300	600,000	1,101,300
Total Funding Sources		6,847,920	600,000	7,447,920

Expenditures	To Date	Future	Total
PER	93,712		93,712
Land	101,026		101,026
Design	553,313		553,313
Construction	4,966	6,088,224	6,093,190
Construction Management/Inspection			-
Construction Materials Testing		52,000	52,000
FF&E			-
Total Expenditures	753,017	6,140,224	6,893,241

Project Balance/Contingency

554,679

Schedule:

Preparations to begin construction will proceed immediately upon council award. The construction is scheduled to begin with a pre-construction conference in July 2019 and the issuance of the NTP to the construction contractor. The anticipated completion date is July 2020.

	<i>Base Line</i>	<i>Current</i>
<i>Design Start</i>	May-16	May-16
<i>Bid Start</i>	August-17	April-19
<i>Construction Start</i>	July-19	
<i>Proposed Construction Completion</i>	July-20	

Rain Days: N/A

Vicinity Map

