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Department of Utilities  
Wastewater Treatment Plant  
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**To:** Chairperson Greg Dannecker and Members of the Utilities Committee

**From:** Utilities Deputy Director, Chris Stempa

**Date:** March 15, 2016

**Re:** *Award Scarlet Oak Lift Station Improvements Project Bid and Alternate Bids #2 and #4 to August Winter & Sons, Inc. in the amount of \$139,471 with contingency of \$10,460 for a project total not to exceed \$149,931*

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**BACKGROUND:**

The 2015 wastewater capital improvements projects (CIPs) includes a project to address reliability issues and long-term site specific needs at the Scarlet Oak Lift Station. The lift station is located on the east side of the 3300 block of South Scarlet Oak Lane and was originally constructed in 1995. Escalating occurrences of electrical system failure, sewage pump blockages, and various wetwell component deterioration increases the potential for sanitary sewer bypasses and basement backups.

Through the improvements project, new pumps with improved impeller design would be installed to reduce the frequency of clogging. Replacement of the pump rail system is necessary due to deterioration. Wholesale change out of the electrical system will restore station reliability and compliance with current electrical codes. Improvements to site access (currently grass) will provide reliable vehicle entry to lift station equipment during emergency events as well as for periodic maintenance. A coarse budgetary estimate of \$85,000 was utilized for the 2015 budget cycle based on similar scope projects. McMahon was contracted in June 2015 to provide professional engineering services for the project. They assisted with the refinement of project scope based on overall system and site needs as part of the preliminary engineering phase.

**BIDS:**

McMahon created bidding documents for the construction project. On March 10, 2016 the City reviewed the contractor quote and verified that it met submittal requirements. August Winter was the only contractor that provided a bid response. August Winter has successfully completed project work for the AWWTP in the past. Contractors who attended the pre-bid meeting or requested bidding documents but did not provide a bid were contacted following the bid opening. Each contractor that was contacted indicated that workload and schedule were the primary reasons why they decided not to submit a bid.

The August Winter bid is summarized in the table below. The base bid includes two 5-hp Flygt N-Series pumps, replacement of pump slide rails, 240-volt/ 60 Hz variable frequency drive (VFD) for single phase to three-phase conversion, new relocated pump control panel with programmable logic controller (PLC) and operator interface terminal (OIT), upgraded telemetry system, and stabilized access using porous geotextile. The based bid budget exceedance was primarily associated with the new control panel (\$18,500 higher) and site stabilization (\$5,000 higher). Control panel features (e.g. VFDs and OIT) that will enhance pumping efficiency and reliability were not identified at the time of original budget formation. The site stabilization area was expanded by 25% to facilitate entry of city sewer trucks up to 80,000 lbs in weight. That change coupled with limited contractor availability contributed to the increase over the original budgetary estimate.

Alternative Bid #2 includes a Flygt Mix Flush System for each pump to mitigate the effects of fats, oil, and grease buildup within the wetwell. Alternative Bid #4 includes costs to replace existing pump discharge piping which is beginning to show signs of surface corrosion through the asphaltic exterior coating. Alternative Bid #4 would take advantage of temporary sewage bypassing necessary to replace pumps and slide rails as part of base bid activities.

Company	Base Bid	Alt. Bid #2	Alt. Bid #4	Total Bid Price
August Winter	\$126,921	\$2,650	\$9,900	\$139,471

**RECOMMENDATION:**

I am requesting an award of the Award Scarlet Oak Lift Station Improvements project base bid and alternate bids #2 and #4 to August Winter & Sons, Inc. in the amount of \$139,471 with contingency of \$10,460 for a project total not to exceed \$149,931

If you have any questions or require additional information regarding this project please contact Chris Stempa at 920-832-5945.