



AGENDA MEMORANDUM

Future Item for the City Council Meeting of August 30, 2016
Action Item for the City Council Meeting of September 13, 2016

DATE: August 5, 2016

TO: Margie C. Rose, City Manager

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| <p><u>Engineering Master Service Agreement</u> Water System Process Control & Reliability</p> |
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CAPTION:

Motion authorizing the City Manager, or designee, to executed a Master Service Agreement with LNV, Inc. of Corpus Christi, Texas in the amount of \$300,000, for the Water System Process Control and Reliability project. This project is in the approved FY 2014-2015 Capital Improvement Plan.

PURPOSE:

The purpose of this Agenda Item is to approve a Master Services Agreement for the Water System Process Control and Reliability project.

CIP DESCRIPTION: Water System Process Control Reliability Improvements (E13031)

Process automation system, also known as Supervisory Control and Data Acquisition (SCADA) system, allows a small team of operators to effectively run a large, complex Water system. It makes the operation of the Plant or of the distribution system more uniform and predictable. This project will address all aspects of system-wide process automation as outlined in the

system study performed in 2012. The elements include communication with remote sites, standardization of local automatic control hardware and software, improved diagnostic data gathering and remote troubleshooting, periodic reporting, and instantly presenting meaningful process information to the right decision-makers at the right time.

BACKGROUND AND FINDINGS:

The Utility Department operates and manages the O.N. Stevens Water Treatment Plant (ONSWTP) and water distribution system. The existing treatment process uses limited automation and controls. This project evaluates the existing processes and equipment to develop more standardized and optimized processes to better integrate current technologies. The objective of this project is to modernize the treatment processes and SCADA controls to improve water quality and reliability. The planned improvements include the following:

- Improve data collection system for water treatment processes at the ONSWTP
- Integrate and optimize city-wide SCADA systems for better Operation & Maintenance including Plant, Elevated Storage Tanks, Pump Stations, etc.
- Increase automated flow-paced chemical treatments to reduce chemical and operation costs
- Improve dissemination and distribution of water quality and system data to City staff and officials

This contract is a Master Service Agreement (MSA) to provide the required professional engineering services for the Water System Process Control and Reliability improvements. The MSA contract specifies basic scope, terms, and conditions that will govern future Task Orders. Future Task Orders will be issued with specific scope of work and associated fees. The total Task Orders will not exceed the MSA contract value. Future Task Orders will be administratively issued by the Director of Engineering Services or designee.

ALTERNATIVES:

1. Authorize the execution of the contract.
2. Do not authorize the execution of the contract. (Not Recommended)

OTHER CONSIDERATIONS:

LNV, Inc. was selected as the Consultant Engineer for this project through the Bond 2014 Transportation, Parks, and Capital Improvements Request for Qualifications No. 2014-08.

CONFORMITY TO CITY POLICY:

Conforms to City Fiscal Policy

EMERGENCY / NON-EMERGENCY:

Non-Emergency

DEPARTMENTAL CLEARANCES:

Utilities Department

FINANCIAL IMPACT:

Operating ☐ Revenue ☒ Capital ☐ Not applicable

| Fiscal Year 2015-2016 | Project to Date Budget & Expenditures | Current Year | Future Years | TOTALS |
|--|--|---------------------|---------------------|------------------|
| Line Item Budget | | \$1,000,000 | \$1,500,000 | \$2,500,000 |
| Encumbered / Expended Amount | | | | |
| This Item | | \$300,000 | | \$300,000 |
| Future Anticipated Expenditures This Project | | \$35,000 | \$2,100,000 | \$2,135,000 |
| BALANCE | | \$665,000 | (\$600,000) | \$65,000 |

Fund(s): Water CIP #10

Comments: This contract will result in an expenditure not to exceed \$300,000.

RECOMMENDATION:

City Staff recommends approval of a Master Service Agreement with LNV Inc. of Corpus Christi, Texas in the amount of \$300,000, for the Water System Process Control and Reliability project.

LIST OF SUPPORTING DOCUMENTS:

Project Budget
Location Map
Contract
Presentation
Form 1295