

July 17, 2017

CITY COUNCIL AGENDA MEMORANDUM

SUBJECT

Resolution authorizing execution of a Professional Services Agreement with S&B Inc., for a contract value not to exceed \$140,378.15 plus all applicable taxes, for the purchase and replacement of station Remote Telemetry Units (RTU's), and for engineering and systems integration services.

FISCAL IMPACT

Awarding this Professional Services Agreement commits the City to a maximum contract amount of \$140,378.15 plus all applicable taxes. Total expenditures under the contract will be monitored by the project manager and services will not be requested from any vendor unless sufficient funds are available to cover the services.

STAFF CONTACTS

Nav Ota, Director, 452-2041

Andrew Lee, Deputy Director, 452-7675

Joe Harbour, Assistant Director, 452-2014

Utilities Department

POLICY CONSIDERATION

Utilities Department Policies:

- The Utility shall invest resources as necessary to construct, maintain and renew water system infrastructure and equipment such that Utility customers are provided consistent, reliable service, except during maintenance activities. (Water System Plan)

Utilities Department Practice:

- Invest in elements of the Water, Wastewater and Storm & Surface Water systems.

City Contracting Policies:

- Bellevue City Code 4.28.030: The City's procurement policy, updated January 1, 2015, supports open, fair, and transparent procurement of services in accordance with the City Code and state law. Because of the amount of this contract, Council approval is required.

BACKGROUND

The Utilities' Telemetry (automated communications process by which measurements and data collected at remote points are transmitted to receiving equipment) and SCADA (Supervisory Control And Data Acquisition) system provides a communications network that monitors, controls and operates the City's Water, Wastewater and Storm and Surface Water systems. The Telemetry/SCADA system provides 24 hour continuous monitoring of all three piped system facilities such as pumping stations, reservoirs, pressure control vaults, water inlet stations, surface water detention facilities, and stream monitoring facilities. The system also provides intrusion detection alarms for all three piped utility systems. In addition, the system is used to control and operate the utility systems by turning the pumps on and off, opening and closing the valves and gates, and sounding alarms when the system is malfunctioning.

Furthermore, this system performs after hours paging of alarms to standby personnel which lessens the need for 24 hour staffing. Telemetry and SCADA historical data also informs both Engineering and Operations on how best to operate and design facilities. Given the importance of the utility systems, it is critical to have a reliable and fully functioning Telemetry and SCADA system.

The work authorized by this contract upgrades identified high priority RTU's (five to seven dependent upon complexity) located at water pump stations throughout the service area which have reached end of product lifecycle. The upgraded RTU's provide both reliable data and control using current communication protocols to the Master Telemetry Unit (MTU) located at City Hall. This allows operational staff to control and operate the water pump stations remotely via the new RTU units. The work will seamlessly integrate into the City's SCADA system that is designed and supported by the selected systems integrator.

Based on their statement of qualifications, S&B Inc. was the selected integrator for the Water Telemetry Upgrades Project in June 2001. In 2009, S&B Inc. was chosen as a sole source to complete the Wastewater Telemetry Upgrade Project. S&B Inc. was chosen as a sole source for the 2017/2018 SCADA RTU Upgrade for the following reasons:

- S&B Inc. completed the original design and implementation of the existing Hardware Control Systems, the original programming (approximately 40,000 lines of complex code), and the SCADA Network and Data Logging System currently in use.
- Familiarity with the system by the vendor is essential, as downtime of the SCADA system represents a high cost to the Utility and significant potential liability. This equipment is mission critical.
- SCADA system architecture and design are identified as security vulnerability for the City. Limiting access to this information is a high priority.
- The consultant's proposal was carefully reviewed and found to be reasonable for the proposed scope of work.

Staff verified that S&B Inc. is the only vendor with the unique knowledge of the critical control algorithms of the City's Water, Wastewater and Storm and Surface Water systems.

The sole source request has been reviewed and approved by City of Bellevue Finance Department. The competitive exemption and the professional services agreement were found to comply with applicable City policy. Further details on the sole source justification and approval can be found in the Competitive Exemption Form in the contract file available in the Council document library.

EFFECTIVE DATE

If approved, this Resolution becomes effective immediately upon Council adoption.

OPTIONS

1. Adopt the Resolution authorizing execution of a Professional Services Agreement with S&B Inc., for a contract value not to exceed \$140,378.15 plus all applicable taxes, for the purchase and replacement of station Remote Telemetry Units (RTU's), and for engineering and systems integration services..
2. Do not adopt the Resolution and provide alternative direction to staff.

RECOMMENDATION

Option 1

MOTION

Move to adopt Resolution No. 9288 authorizing execution of a Professional Services Agreement with S&B Inc., for a contract value not to exceed \$140,378.15 plus all applicable taxes, for the purchase and replacement of station Remote Telemetry Units (RTU's), and for engineering and systems integration services.

ATTACHMENTS

Proposed Resolution No. 9288

AVAILABLE IN COUNCIL DOCUMENT LIBRARY

Professional Services Agreement