

March 19, 2018

## **CITY COUNCIL AGENDA MEMORANDUM**

### **SUBJECT**

Resolution authorizing execution of a contract with S&B, Inc. to provide services supporting the development of a Utilities Supervisory Control and Data Acquisition (SCADA) Master Plan, in an amount not to exceed \$200,000, plus all applicable taxes.

### **FISCAL IMPACT**

The proposed resolution will obligate the City to \$200,000, plus all applicable taxes, in 2018. Sufficient funding exists in the Utilities adopted 2018 budget.

### **STAFF CONTACTS**

Nav Otal, Director, 452-2041

Joe Harbour, Assistant Director – O&M, 452-2014

Lucy Liu, Assistant Director – Resource Management & Customer Service, 452-4445

*Utilities Department*

### **POLICY CONSIDERATION**

- Purchase contracts exceeding \$90,000 require Council approval.
- RCW 39.80.010 – The legislature hereby establishes a state policy, to the extent provided in this chapter that governmental agencies publicly announce requirements for architectural and engineering services, and negotiate contracts for architectural and engineering services on the basis of demonstrated competence and qualification for the type of professional services required and at fair and reasonable prices. City staff publicly announced the Request for Qualifications through the Public Purchase procurement portal.

### **BACKGROUND**

Bellevue Utilities (Utilities) currently operates a SCADA system to provide real-time operational monitoring, alarming, and control for the supply of safe drinking water, effective removal of sewage from homes and businesses, and control of surface water runoff to minimize flooding or environmental damage. The current SCADA system is 15 years old and approaching the end of its useful life. The existing SCADA system ensures that Utilities staff are informed immediately when there are system failures, water quality incidents, security threats, and/or other episodes that require real-time operator attention. SCADA is an essential part of the city's overall Smart Cities and Smart Water strategy.

Under this Contract, Bellevue will develop a 15-year master plan to upgrade the existing SCADA system. The proposed SCADA Master Planning effort will provide a future-focused investigation of new SCADA technologies including new sensors, communication methods, and innovative internet of things (IoT) devices. In addition, the master planning effort will focus on advanced analytical tools, such as machine learning through neural networks, to analyze data and yield actionable insights. Lastly, the master planning effort will focus on business process improvements and skills development to take full advantage of new technologies that will be deployed.

The recommended contractor, S&B Inc., from Bellevue, WA, was selected through a competitive procurement process from a field of five qualified consulting firms. They were evaluated and selected based on their understanding and approach to the project, team experience and firm experience with SCADA master planning efforts.

Approval of the attached Resolution and agreement will enable the City to plan for needed improvements to current equipment and systems and also plan for anticipated technology and updated processes in a dependable and resilient fashion. The SCADA Master Plan will inform future CIP efforts.

#### **EFFECTIVE DATE**

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

#### **OPTIONS**

1. Adopt the Resolution authorizing execution of a contract with S&B, Inc. to provide services supporting the development of a Utilities Supervisory Control and Data Acquisition (SCADA) Master Plan, in an amount not to exceed \$200,000, plus all applicable taxes.
2. Do not adopt the Resolution and provide alternative direction to staff.

#### **RECOMMENDATION**

Option 1

#### **MOTION**

Move to adopt Resolution No. 9387 authorizing execution of a contract with S&B, Inc. to provide services supporting the development of a Utilities Supervisory Control and Data Acquisition (SCADA) Master Plan, in an amount not to exceed \$200,000, plus all applicable taxes.

#### **ATTACHMENTS**

Proposed Resolution No. 9387

#### **AVAILABLE IN COUNCIL DOCUMENT LIBRARY**

- A. SCADA Master Plan Contract
- B. SCADA Master Plan Statement of Work