

DATE SUBMITTED 09/29/21
 SUBMITTED BY Public Services
 DATE ACTION REQUIRED 10/06/21

COUNCIL ACTION ()
 PUBLIC HEARING REQUIRED ()
 RESOLUTION ()
 ORDINANCE 1ST READING ()
 ORDINANCE 2ND READING ()
 CITY CLERK'S INITIALS (em)

**IMPERIAL CITY COUNCIL
 AGENDA ITEM**

SUBJECT: Engineering Services SCADA Improvements	DISCUSSION/ACTION: 1. Discuss, Approve/Disapprove the purchase of Engineering Services for SCADA Improvements for Tank Fill, Proposal 014921b with Webb & Associates.
DEPARTMENT INVOLVED: WTP – Public Services	
BACKGROUND/SUMMARY: The Aten and Shop tanks, both located remotely in the distribution system, are intended to maintain adequate pressures in the remote areas of the distribution systems. Both tanks have on/off altitude level control valves to fill the tanks and pump stations to pump water back into the system. During tank refill through the existing Cla-Val altitude level control valves, pressures tend to drop below ideal conditions in the distribution area near the tank. During periods of low demand, the tanks need to cycle properly to maintain water quality in the tanks. City staff must physically respond to the sites to cycle the pump stations on and off. The plan to address these issues is to change the pilotry and settings for the existing valves such that the valves will sustain an acceptable pressure in the distribution system and change the SCADA controls such that the system properly cycles the tank and pump stations automatically with significantly less operator changes.	
FISCAL IMPACT: Webb & Associates - Time & Materials basis, Not to exceed \$39,164 without written approval by the City	FINANCE INITIALS 
STAFF RECOMMENDATION: Approve	DEPT. INITIALS 
MANAGER'S RECOMMENDATION: <i>approve</i>	CITY MANAGER'S INITIALS 
MOTION:	
SECONDED: AYES: NAYES: ABSENT:	APPROVED () DISAPPROVED () REFERRED TO:
	REJECTED () DEFERRED ()



Proposal 014921b

Corporate Headquarters
3788 McCray Street
Riverside, CA 92506
951.686.1070

September 21, 2021

Palm Desert Office
41-990 Cook St., Bldg. I-801B
Palm Desert, CA 92211
951.686.1070

Jackie Loper
Director of Public Services
City of Imperial Public Works Department
420 South Imperial Avenue
Imperial, CA 92251-1637

Murrieta Office
41870 Kalmia Street #160
Murrieta, CA 92562
951.686.1070

RE: SCADA System Improvements for Tank Fill

Dear Jackie:

Pursuant to your request, we are submitting this letter proposal to design SCADA System Improvements for the Tank Fill and Cycling. The following presents our Approach, Scope of Services, Budget, and Schedule.

Project Approach

The Aten and Shop tanks, both located remotely in the distribution system, are intended to maintain adequate pressures in the remote areas of the distribution systems. Both tanks have on/off altitude level control valves to fill the tanks and pump stations to pump water back into the system. During tank refill through the existing Cla-Val altitude level control valves, pressures tend to drop below ideal conditions in the distribution area near the tank. During periods of low demand, the tanks need to cycle properly to maintain water quality in the tanks. City staff must physically respond to the sites to cycle the pump stations on and off. The plan to address these issues is to change the pilotry and settings for the existing valves such that the valves will sustain an acceptable pressure in the distribution system and change the SCADA controls such that the system properly cycles the tank and pump stations automatically with significantly less operator changes.

Webb will team with SKM to determine the valve pilotry and control and the SCADA programming changes to accomplish the operation changes needed. It is anticipated that 1) no major changes to the existing SCADA and telemetry systems will be required and 2) the required field work will be implemented by existing City staff, ClaVal service department or a select contractor without developing a detailed construction bid package.

Scope of Services

Engineering Phase

1. Review the existing controls on the valves and pump stations, including the SCADA controls.



www.webbassociates.com

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Director of Public Services
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2. Coordinate with ClaVal regarding the changes necessary to the valve pilotry to accomplish the control changes. It is assumed that field wiring changes will be conducted by ClaVal, the City or a City consultant.
3. Meet with City staff to determine the current system operation and limitations and develop a list of needs for the SCADA programming.
4. Develop a set of plans detailing the control changes necessary (pilotry, conduits, wiring, solenoids, etc...)
5. Provide a cost estimate for proposed changes.
6. Summarize findings and recommendations in a technical memorandum and accompanying plans/exhibits.

Upon approval to initiate the implementation/construction phase:

7. Develop new SCADA programming and import into the existing control system.
8. Coordinate with City staff on implementation of the field work.
9. One field visit to implement the changes and test the revised SCADA logic and test any new facilities and train City staff on the use and function of changes.

Project Budget

We will perform all specified services on a Time & Materials basis not to exceed **\$39,164** without written approval by the City.

Project Schedule

Scope of Services for the Engineering Phase can be accomplished within 8 weeks from receipt of authorization and all required information for the project.

Exclusions

The following items are excluded from our scope of services:
Any task not specifically listed in the scope of services

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Should you have any questions or require additional information, please contact one of the undersigned.

Sincerely,

ALBERT A. WEBB ASSOCIATES

A handwritten signature in black ink that reads "Shane Bloomfield". The signature is written in a cursive, flowing style.

Shane Bloomfield, P.E.
Project Manager