



**PURCHASING ITEM
FOR
COUNCIL AGENDA
Memo No. CP15-246**

1. Agenda Item Number:
18
2. Council Meeting Date:
May 11, 2015

TO: MAYOR & CITY COUNCIL
THROUGH: CITY MANAGER

3. Date Prepared: April 28, 2015
4. Requesting Department: Municipal Utilities

5. SUBJECT: Project Agreement with Wilson Engineers, LLC, for Design Services for Roosevelt and Basha Tank Rehabilitation

6. RECOMMENDATION: Staff recommends City Council award a Project Agreement to Wilson Engineers, LLC, for design services, for Roosevelt and Basha Tank Rehabilitation, pursuant to On-Call Water and Wastewater Services Contract No. EN1517.101, Project No. WA1520.201, in an amount not to exceed \$179,370.

7. BACKGROUND/DISCUSSION: This project is a continuation of the Municipal Utilities Department's ongoing efforts to modernize and rehabilitate the City's older water production facilities. The steel water tanks at the Roosevelt and Basha Water Production Facilities were constructed more than fifteen years ago. The Water Systems Maintenance Division conducts routine inspections of these tanks for corrosion and structural problems. In a recent inspection, both of these tanks were found to be in need of rehabilitation.

The project scope of work consists of evaluation of the steel tanks, as well as the preparation of plans and specifications for bidding purposes to address corrosion and structural repairs.

8. EVALUATION: This project is being performed under the On-Call Water and Wastewater Services Contract, No. EN1517.101, to Wilson Engineers, LLC. The costs proposed for this project have been evaluated by Staff and are determined to be reasonable. The contract completion time is 270 calendar days following Notice to Proceed.

9. FINANCIAL IMPLICATIONS:

Cost: \$179,370
Savings: N/A
Long Term Costs: N/A

Fund Source:

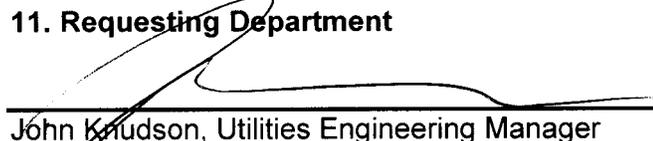
<u>Account No.:</u>	<u>Fund Name:</u>	<u>Program Name:</u>	<u>CIP Funded:</u>	<u>Amount:</u>
601.3820.6718.6WA230	Water Bond	Water Production Facility Improvements	Yes	\$179,370

10. PROPOSED MOTION: Move City Council award a Project Agreement to Wilson Engineers, LLC, for design services, for Roosevelt and Basha Tank Rehabilitation, pursuant to On-Call Water and Wastewater Services Contract No. EN1517.101, Project No. WA1520.201, in an amount not to exceed \$179,370.

ATTACHMENTS: Location Map, Agreement

APPROVALS

11. Requesting Department


John Knudson, Utilities Engineering Manager

13. Department Head


Dave Siegel, Municipal Utilities Director

12. Transportation & Development


Bob Fortier, Capital Projects Manager

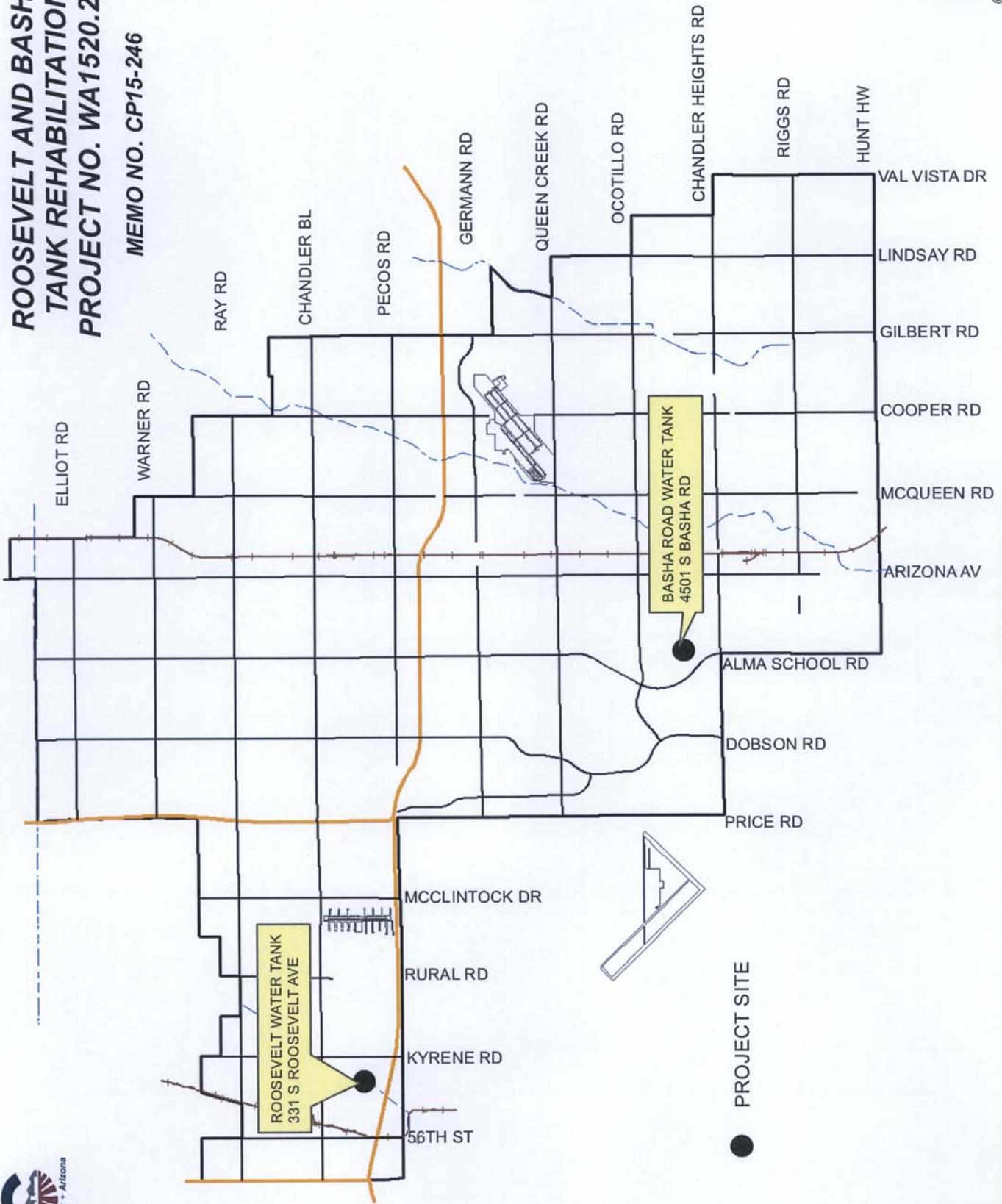
14. City Manager


Rich Dlugas



ROOSEVELT AND BASHA TANK REHABILITATION PROJECT NO. WA1520.201

MEMO NO. CP15-246



**PROJECT AGREEMENT
PURSUANT TO ANNUAL CONTRACT NO. EN1517.101**

PROJECT AGREEMENT NO: WA1520.201

This PROJECT AGREEMENT is made this ____ day of _____, 2015, by and between the City of Chandler, a municipal corporation (hereinafter referred to as "CITY") and Wilson Engineers, LLC, registered in the state of Arizona (hereinafter referred to as "Annual Consultant") and is a project agreement entered into pursuant to Annual Contract No. EN1517.101.

CITY and Wilson Engineers, LLC, in consideration of the mutual covenants herein set forth, agree as follows:

ARTICLE 1 - DESCRIPTION OF WORK:

This project is Roosevelt and Basha Tank Rehabilitation, Project Number WA1520.201. The scope of work consists of evaluation and preparation of plans for rehabilitation of tanks located within the Basha Water Production Facility (WPF) located at 4501 South Basha Road and the Roosevelt Pump Station and Tank Site is located at 331 South Roosevelt Avenue, in Chandler, Arizona, all as more particularly set forth in Exhibit A attached hereto and incorporated herein by reference.

The Annual Consultant shall not accept any change of scope, or change in contract provisions, unless issued in writing, as a contract amendment and signed by the Contract Administrator.

ARTICLE 2 - CONTRACT PRICE:

CITY shall pay Annual Consultant for completion of the Work in accordance with the Contract Documents a fee not to exceed One Hundred Seventy Nine Thousand Three Hundred Seventy Dollars (\$179,370) determined and payable as set forth in Annual Contract EN1517.101 and Exhibit B attached hereto and made a part hereof by reference.

ARTICLE 3 - CONTRACT TIME:

The contract time is Two Hundred Seventy calendar days and Annual Consultant agrees to complete all work within Two Hundred Seventy (270) calendar days of the date CITY issues a Notice to Proceed.

ARTICLE 4 - GENERAL:

This Project Agreement is entered into pursuant to Annual Contract No. EN1517.101 and the terms and conditions contained therein are incorporated herein by reference as if set forth in full.

IN WITNESS WHEREOF, the parties hereto have executed this Project Agreement on the day and year first written above.

This Project Agreement will be effective on this ____ day of _____, 2015.

CITY OF CHANDLER

FOR THE ANNUAL:

MAYOR DATE:

By: 
Title: PRINCIPAL

ADDRESS FOR NOTICE
City of Chandler
P.O. Box 4008, Mail Stop 407
Chandler, AZ 85244-4008
480-782-3307

ADDRESS FOR NOTICE
Mr. Steve Todd
Wilson Engineers, LLC
9633 S. 48th St., Ste. 290
Phoenix, AZ 85044-5658

APPROVED AS TO FORM:

Phone: 480-893-8860

City Attorney By: CA

ATTEST:

City Clerk

EXHIBIT A SCOPE OF WORK

ANNUAL CONSULTANT shall provide professional engineering services to evaluate and prepare plans for the rehabilitation of tanks located within the Basha Water Production Facility (WPF) and at Roosevelt Pump Station and Tank sites. The Basha WPF was originally constructed in 1999. The steel tank has a 156 foot diameter width and is 16 foot tall with a capacity of two million gallons. The Roosevelt tank was originally constructed in 1987 with a capacity of four million gallons. The tank has a 170 feet diameter width and is 25 feet tall.

The professional engineering services tasks to be performed under this Project are as follows:

TASK 1.0 DESIGN DEVELOPMENT

Subtask 1.1 Kick-Off Meeting.

A kickoff meeting with representatives from ANNUAL CONSULTANT and CITY will be conducted at project initiation. The following will be accomplished:

- Introduce key team members
- Establish lines of communication
- Review the project scope and schedule
- Confirm specific goals and expectations
- Identify key issues affecting project development
- Request background information
- Prepare and distribute meeting minutes to the attendees. Minutes to be prepared by ANNUAL CONSULTANT.

Subtask 1.2 Data Collection and Review.

Collect and review background information including:

- Basha Water Production Facility and Roosevelt Tank Site as-builts and existing equipment specifications, to be provided by the CITY.
- Buried facility maps from other utilities in the project area.

Subtask 1.3 Steel Tanks Investigation.

ANNUAL CONSULTANT shall coordinate the inspection of the tanks with the CITY and various disciplines of the project team (coating and structural inspection). It is assumed that the CITY can take tanks off-line and can provide access to one tank at a time to the project team for inspection purposes. The CITY will take care of isolation of the tank, draining, dewatering of the tank prior to inspection, and disinfection of the tank after the inspection is complete. An allowance is included for erecting scaffolding for closer inspection of the roof. Alternatively, the reservoir roof inspection can be conducted by dropping a raft inside the tank. In that case, it is assumed that the CITY can isolate the tank and will be able to assist the project team with dropping a raft for inspection. The inspection will consist of taking photographs of interior as well as the exterior of the tank, collecting information regarding the thickness of tank walls at various locations and the floor, especially areas of distress. ANNUAL CONSULTANT shall also as-built locations, shapes, and quantity of columns and rafters within the tank. ANNUAL CONSULTANT shall inspect the condition of the paint, pitting, and conduct a structural evaluation of the tank.

Subtask 1.4 Tank Evaluation Report:

ANNUAL CONSULTANT shall prepare a report summarizing observations from the inspection. The Report shall include the following information:

- The condition of paint and extent of corrosion and the character of these areas along with recommendations for removal and recoating.

- The extent and depth of pitting within the tank.
- The repair procedures to address areas of distress and type of repairs in different areas within the tank(s).
- The evaluation of structural condition of the tank and proposed modifications to the tank to meet the current standards.
- The evaluation of the tank from operational and safety perspective.
- The estimation of costs for proposed improvements

ANNUAL CONSULTANT will provide 5 (five) hard copies and electronic PDFs of the draft report for review and comment. After obtaining review comments from the City, the Report will be finalized.

TASK 2.0 DETAILED DESIGN

Subtask 2.1 Preparation of 60% Plans.

ANNUAL CONSULTANT shall prepare preliminary (60%) construction documents (plans only) and a preliminary estimate for the Tank Rehabilitation work for both sites. Five (5) copies and electronic PDF copies of the preliminary, 60 percent, plans will be submitted for review to the CITY. One review meeting will be conducted to discuss any comments received from the CITY.

Subtask 2.2 Preparation of 90% Plans and Specifications.

ANNUAL CONSULTANT shall prepare preliminary (90%) construction documents including plans, specifications, and a construction cost estimate for tank rehabilitation. Five (5) copies and electronic PDF copies of the preliminary, 90 percent, plans and specifications will be submitted for review to the CITY. One review meeting will be conducted to discuss any comments received from the CITY.

Subtask 2.3 Maricopa County and Development Services Review.

ANNUAL CONSULTANT shall submit one (1) set of the 90 percent plans and specifications to Maricopa County Environmental Services Department (Maricopa County) and Four (4) sets to the CITY's Development Services Department for permit review. One review meeting will be conducted to discuss any comments received from the County, if necessary. One review meeting will be conducted to discuss any comments received from the CITY's permit review.

Subtask 2.4 Preparation of Final Plans and Specifications.

ANNUAL CONSULTANT shall submit final 100%, signed and sealed; plans, specifications, and cost estimate, which will incorporate previous City and Maricopa County comments. One (1) reproducible Mylar of the cover sheet shall be submitted to the City and Maricopa County for approval signatures and bidding.

TASK 3.0 BID SERVICES

Subtask 3.1 Pre-Bid Conference.

ANNUAL CONSULTANT shall attend the pre-bid conference to answer bidder questions pertaining to the Construction Documents.

Subtask 3.2 Questions.

ANNUAL CONSULTANT shall assist the CITY in preparing addenda to respond to bidder inquiries received by the CITY after the pre-bid conference.

Subtask 3.3 Prior Approval Review/Addenda.

ANNUAL CONSULTANT shall review substitutions or equal submissions from bidders for potential approval, according to the City's requirements, and assist the CITY in preparation of addenda.

Subtask 3.4 Attend Bid Opening.

ANNUAL CONSULTANT shall attend the bid opening, review bids, and make recommendation for award.

ASSUMPTIONS AND CLARIFICATIONS

This project consists of inspection and rehabilitation work of the tanks only at both sites. No other work such as upgrades to the piping, pumps, or electrical gear at either site is included in the evaluation and plan preparation.

The City currently intends to procure the construction services for this project using the Design Bid Build delivery method and intends to combine the work at these two sites into a single bid with the intent of attracting more competitive bids.

ANNUAL CONSULTANT anticipates in using the existing available drawings as much as possible for identifying improvements. No topographic survey effort is included in the scope of work for either site.

It is assumed that the CITY will directly pay for all of the required CITY permitting fees.

The final cost estimate will be used by the CITY as the construction bid schedule and will be formatted accordingly to accommodate this use.

Allowances shall be billed at cost and ANNUAL CONSULTANT shall include receipts or invoices with billings for these services/costs.

Owner's allowance shall only be utilized with prior written approval from the CITY, for services defined at time of approval.

**EXHIBIT B
FEE SCHEDULE**

Task No(s)	Description	Subtotal
Task 1.0 - Design Development		
1.1	Kick-Off Meeting	\$ 1,630
1.2	Data Collection and Review	\$ 3,000
1.3	Steel Tank Investigation	\$ 14,450
1.4	Tank Evaluation Report	\$ 18,150
Subtotal - Design Development		\$ 37,230
Task 2.0 - Final Design		
2.1	60% Construction Documents	\$ 30,320
2.2	90% Construction Documents	\$ 42,120
2.3	Maricopa County / Development Services Submittal	\$ 6,400
2.4	Final Submittal	\$ 21,100
Subtotal - Final Design		\$ 99,940
Task 3.0 - Bid Services		
3.1	Pre-Bid Conference	\$ 280
3.2	Questions / RFI Response	\$ 5,020
3.3	Equipment Prequalification Review / Issue Addenda	\$ 4,120
3.4	Attend Bid Opening	\$ 280
Subtotal - Bid Services		\$ 9,700
Subtotal - Direct Labor		\$ 146,870
Allowances		
1.3, 1.4, 2.0	Structural Services Allowance	\$ 11,000
1.3	Temporary Scaffolding Allowance	\$ 7,500
1.3, 1.4	Coating Inspection Allowance	\$ 7,500
2.3	MCESD Review Fees	\$ 1,500
N/A	Owner's Allowance	\$ 5,000
Subtotal - Allowances		\$ 32,500
Total		\$ 179,370