



**PURCHASING ITEM  
FOR  
COUNCIL AGENDA  
Memo No. CA11-092**

**1. Agenda Item Number:**  
**20**

**2. Council Meeting Date:**  
January 27, 2011

**TO: MAYOR & COUNCIL**  
**THROUGH: CITY MANAGER**

**3. Date Prepared:** January 12, 2011  
**4. Requesting Department:** Municipal Utilities

**5. SUBJECT:** Approve Contract Amendment No.1 for the Remote Site Programmable Logic Controller (PLC) Replacements CM Services, Project No. WA0824-451, to Wilson Engineers in an amount not to exceed \$43,900.

**6. RECOMMENDATION:** Staff recommends Council approve Contract Amendment No.1 for the Remote Site Programmable Logic Controller (PLC) Replacements CM Services, Project No. WA0824-451, to Wilson Engineers in an amount not to exceed \$43,900.

**7. BACKGROUND/DISCUSSION:** A programmable logic controller (PLC) is a device that automatically operates remote facilities such as booster stations, wells, and wastewater lift stations without operator input. This project includes construction management services to program new PLC's and replace obsolete PLC's at 65 facilities (54 sites). The facilities include 18 booster pump stations, 8 arsenic well stations, 18 well sites, 5 wastewater lift stations, 10 wastewater turnouts, and 6 chlorinators. The contract amendment adds construction administration and inspection services for replacement of existing PLC components at the Old Pecos and Pecos-McQueen Lift Stations. This amendment also includes design of a new enclosure to house new PLC's and two new Variable Frequency Drives (VFD) at the Old Pecos Lift Station.

**8. EVALUATION PROCESS:** On September 10, 2010, Council approved a one-year extension of Annual Contract No. EN0712-101 with Wilson Engineers for permitting, study, and design services for water/wastewater. Wilson Engineers was selected in accordance with established City policies and procedures.

**9. FINANCIAL IMPLICATIONS:**

Cost: \$43,900  
Savings: None  
Long Term Costs: None  
Fund Source:

Acct. No.:	Fund Name:	Program Name:	CIP Funded:	Amount:
601.3820.0000.6718.9WA230	Water Bond	WPF Improvements	FY 08/09	\$43,900

**10. PROPOSED MOTION:** Move that Council approve Contract Amendment No.1 for the Remote Site Programmable Logic Controller (PLC) Replacements CM Services, Project No. WA0824-451, to Wilson Engineers in an amount not to exceed \$43,900.

**ATTACHMENTS:** Contract Amendment

**APPROVALS**

**11. Requesting Department**

  
John Knudson, Senior Engineer

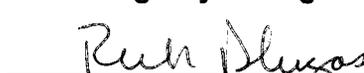
**13. Department Head**

  
Dave Siegel, Municipal Utilities Director

**12. City Engineer**

  
Sheina Hughes, City Engineer

**14. Acting City Manager**

  
Rich Dlugas



Chandler Arizona

AMENDMENT NUMBER 1  
TO PROJECT AGREEMENT NO.: WA0824-451  
PURSUANT TO ANNUAL CONTRACT NO.: EN0712-101

Project Name: Remote Site Programmable Logic Controller (PLC) Replacements CM Services  
Project No.: WA0824-451

The City of Chandler (CITY) and Wilson Engineers, entered into an Annual Contract No. EN0712-101, dated September 11, 2008. Pursuant to this Annual Contract the parties entered into a Project Agreement dated June 30, 2009. This Amendment No. 1 to that certain Project Agreement between the City Of Chandler (CITY) and Wilson Engineers, for WA0824-451 Remote Site Programmable Logic Controller (PLC) Replacements CM Services is entered into this \_\_\_\_\_ day of \_\_\_\_\_, 2011.

WHEREAS the parties have determined that it is necessary and desirable for ANNUAL CONSULTANT to perform additional services for CITY;

NOW THEREFORE, the parties agree as follows:

1. Article 1, of the above referenced Agreement, is hereby; amended by adding additional scope of work described in more detail in Exhibit A attached hereto and incorporated herein by reference.
2. Article 2, of the above referenced Agreement, is hereby; amended by increasing the total contract price by an amount not to exceed the sum of **Forty Three Thousand Nine Hundred dollars, (\$43,900)** for a total Contract Price not to exceed the sum of **Six Hundred Seventy Seven Thousand Five Hundred Forty dollars (\$677,540)** of all payable in accordance with Exhibit B, attached hereto and incorporated herein by reference.
3. Article 3 of the above referenced Agreement is hereby amended by increasing the Contract Time by **Four Hundred Twenty Six Days (426)** days for a total Contract Time of **Six Hundred Thirty Six (636)** days from the original Notice to Proceed date.
4. All other terms and conditions of the above referenced Agreement shall remain unchanged and in full force and effect.

IN WITNESS WHEREOF, the parties have hereunto subscribed their names this \_\_\_\_\_ day of \_\_\_\_\_, 2011.

CITY OF CHANDLER:

By: \_\_\_\_\_  
MAYOR or Date  
Department Head/Designee

APPROVED AS TO FORM:

City Attorney by: *[Signature]*  
ATTEST:

\_\_\_\_\_  
City Clerk

ANNUAL CONSULTANT:

By: *[Signature]*  
Title: **PRINCIPAL**

ATTEST: (If corporation)

\_\_\_\_\_  
Secretary  
WITNESS: (If Individual or Partnership)

\_\_\_\_\_  
SEAL

Amendment No. 1 cont.

Project No. WA0824-451

**THESE CHANGES RESULT IN THE FOLLOWING ADJUSTMENTS OF CONTRACT PRICE AND TIME**

<b>ORIGINAL CONTRACT AMOUNT</b>	<b>\$ 633,640</b>
<b>CURRENT CONTRACT PRICE PRIOR TO THIS AMENDMENT</b> (Including previous amendments)	<b>\$ 633,640</b>
<b>NET INCREASE / DECREASE</b> (Resulting from this amendment)	<b>\$ 43,900</b>
<b>REVISED CONTRACT PRICE</b> (Including this amendment)	<b>\$ 677,540</b>
<b>AMENDMENT PERCENTAGE</b> (Of original contract price)	<b>7%</b>
<b>CONTRACT TIME PRIOR TO THIS AMENDMENT</b> (Including previous amendments)	<b>210</b> (Days or Date)
<b>NET INCREASE/DECREASE</b> (Resulting from this amendment)	<b>426</b> (Days or Date)
<b>REVISED CONTRACT TIME</b> (Including this amendment)	<b>636</b> (Days or Date)
THIS AMENDMENT No. _____	Does not Require Council Approval: Less than \$30,000* _____
	More than \$30,000 but less than 10% of Contract* _____
THIS AMENDMENT No. <u>1</u>	Requires Council Approval Greater than \$30,000* <b>X</b>
	Greater than 10% of Contract * _____
*Including City Manager approved Amendments	
<b>ORIGINAL CONTRACT COUNCIL DATE:</b> <u>6/25/09</u> <b>ITEM NO.:</b> <u>25</u> , if applicable	
<b>COUNCIL APPROVAL:</b> _____ <b>ITEM NO.:</b> _____, if applicable	
<b>CITY OF CHANDLER (Date &amp; Name of Owner Dept. verbal approval):</b> <u>Bob Fortier 12/10/10</u>	

CC: City Clerk    User Dept    Project Mgr    Consultant    Project Analyst    File

## EXHIBIT A SCOPE OF WORK

### **Background/Purpose:**

The purpose of this project is to replace the existing PLC components and provide new programming for the Old Pecos Lift Station and Pecos McQueen Lift Station. The Old Pecos Lift Station will also have a new enclosure installed that will house the new PLC and two (2) new VFDs as part of the new design. Program updates with the latest features and function blocks will be provided for several of the PLC replacement sites based on developments over the course of the PLC Replacement project.

### **Scope of Work:**

**ANNUAL CONSULTANT** shall perform the following additional services Construction Administration and Inspection Services:

- Coordinate work with Contractor and City Staff
- Review shop drawings and prepare responses accordingly
- Part time onsite field inspection of work performed by Contractor
- Input/Output verification for changes made during PLC replacement
- Final Site documentation package completed
- Provide program modifications as required for PLC replacement and Lift Station operation, commissioning of PLC and program upon completion
- Prepare and distribute Record drawings for the Old Pecos Lift Station
- Provide updates to the PLC Replacement sites with the latest features and function blocks developed over the course of the project
- Formal training seminar provided by Jensen Systems

**EXHIBIT B  
FEE SCHEDULE**

<b>I. LABOR SUMMARY</b>								
<b>TASK No.</b>	<b>TASK DESCRIPTION</b>	<b>Senior Project Manager</b>	<b>Project Engineer</b>	<b>Field Inspector</b>	<b>CADD Tech</b>	<b>Clerical</b>	<b>TOTAL HOURS</b>	<b>Wilson Labor COST</b>
		\$ 175	\$ 120	\$ 135	\$ 65	\$ 56		
<b>SECTION 200 - PROJECT ADMINISTRATION SERVICES DURING CONSTRUCTION</b>								
210	Representation on Behalf of City						0	\$ -
215	Administer the Construction Schedule						0	\$ -
220	Perform Site Visits	4	2				6	\$ 940
230	Review Shop Drawings & Test Results		4	2		1	7	\$ 765
240	Issue Interpretations & Clarifications	2	2				4	\$ 590
250	Certify Progress Payments						0	\$ -
260	Substantial & Final Completion	2					2	\$ 350
	<b>SUBTOTAL - PROJECT ADMINISTRATION</b>	<b>8</b>	<b>8</b>	<b>2</b>	<b>0</b>	<b>1</b>	<b>19</b>	<b>\$ 2,646</b>
<b>SECTION 300 - ENGINEERING SERVICES DURING CONSTRUCTION</b>								
320	Changes						0	\$ -
330	Material Testing						0	\$ -
340	Record Drawings	2	4	1	4	1	12	\$ 1,260
350	Operations & Maintenance Manual						0	\$ -
	<b>SUBTOTAL - ENGINEERING SERVICES DURING CONSTRUCTION</b>	<b>2</b>	<b>4</b>	<b>1</b>	<b>4</b>	<b>1</b>	<b>12</b>	<b>\$ 1,260</b>
<b>SECTION 400 - RESIDENT ENGINEERING SERVICES DURING CONSTRUCTION</b>								
401	Schedules						0	\$ -
405	Bi-weekly Conferences						0	\$ -
415	Shop Drawings and Samples						0	\$ -
420	Inspection of Work, Rejection of Defective Work, and Review of Tests	2	6	32			40	\$ 4,750
435	Records						0	\$ -
440	Reports			2			2	\$ 230
445	Payment Applications						0	\$ -
455	Substantial Completion / Final Acceptance	2		2			4	\$ 580
	<b>SUB TOTAL - RESIDENT ENGINEERING</b>	<b>4</b>	<b>6</b>	<b>36</b>	<b>0</b>	<b>0</b>	<b>46</b>	<b>\$ 5,560</b>
<b>SECTION 500 - SPECIAL SERVICES</b>								
510	Warranty						0	\$ -
515	Startup Assistance						0	\$ -
530	Training						0	\$ -
550	Material Testing Allowance (See below in Expense Summary)						0	\$ -
565	Programming / Graphics Configuration Assistance	1	3				4	\$ 535

SUBTOTAL - SPECIAL SERVICES	1	3	0	0	0	4	\$ 535
TOTAL - LABOR SUMMARY	15	21	39	4	2	81	\$ 10,000
TOTAL - LABOR COST SUMMARY	\$ 2,625.00	\$ 2,520.00	\$ 4,485.00	\$ 260.00	\$ 110.00	\$ 10,000.00	
II Expense Summary/Sub-consultants							
Item	Description	Unit	Unit Price			Total	
565	Jenson Systems (Programming Sub - Special Services) - See attached	LS	\$	36,300		\$	33,900
TOTAL - EXPENSE SUMMARY						\$	33,900
TOTAL FEE						\$	49,500

Approved by Legal 11/03/08



Chandler Arizona

AMENDMENT NUMBER 1  
TO PROJECT AGREEMENT NO.: WA0824-451  
PURSUANT TO ANNUAL CONTRACT NO.: EN0712-101

Project Name: Remote Site Programmable Logic Controller (PLC) Replacements CM Services  
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By: \_\_\_\_\_

MAYOR or  
Department Head/Designee

Date

APPROVED AS TO FORM:

\_\_\_\_\_  
City Attorney by: *[Signature]*

ATTEST:

\_\_\_\_\_  
City Clerk

ANNUAL CONSULTANT:

By: *[Signature]*

Title: *PRINCIPAL*

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250	Certify Progress Payments					0	\$ -
260	Substantial & Final Completion	2				2	\$ 350
	<b>SUBTOTAL - PROJECT ADMINISTRATION</b>	<b>8</b>	<b>8</b>	<b>2</b>	<b>0</b>	<b>19</b>	<b>\$ 2,645</b>
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585	Programming / Graphics Configuration Assistance	1	3			4	\$ 535

SUBTOTAL - SPECIAL SERVICES	1	3	0	0	0	4	\$ 535
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Item	Description	Unit	Unit Price			Total	
565	Jenson Systems (Programming Sub - Special Services) - See attached	LS	\$	36,300	\$	33,900	
<b>TOTAL - EXPENSE SUMMARY</b>						\$	<b>33,900</b>
<b>TOTAL FEE</b>						\$	<b>45,900</b>



# REMOTE PROGRAMMABLE LOGIC REPLACEMENT CM SERVICES WA0824-451



● LIFT STATIONS

MEMO NO. CA11-092

