



Chandler · Arizona
Where Values Make The Difference

**PURCHASING ITEM
FOR
COUNCIL AGENDA
Memo No. CA11-090**

1. Agenda Item Number:

16

2. Council Meeting Date:
February 10, 2011

TO: MAYOR & COUNCIL

3. Date Prepared: January 24, 2011

THROUGH: CITY MANAGER

4. Requesting Department: Municipal Utilities

5. **SUBJECT:** Award Contract Amendment No. 7 to Engineering and Environmental Consultants, Inc. (EEC) for Ocotillo Water Reclamation Facility (OWRF) Maintenance and Operation Improvements, Project No. WW0813-201, in an amount not to exceed \$139,760.

6. **RECOMMENDATION:** Staff recommends Council award Contract Amendment No. 7 to Engineering and Environmental Consultants, Inc. (EEC) for OWRF Maintenance and Operation Improvements, Project No. WW0813-201, in an amount not to exceed \$139,760.

7. **BACKGROUND/DISCUSSION:** The Ocotillo Water Reclamation Facility (OWRF) is over 25 years of age and its infrastructure and large equipment will soon exceed their useful life. A complete assessment of OWRF has been completed and several rehabilitation projects are planned to extend the facility's life. This final phase includes painting of the pipe and administration building, rehabilitation of the clarifiers, installation of new variable frequency drives (VFD), upgrading instrument controls, site signage, HVAC repairs, rehabilitation of site asphalt, and other facility improvements.

8. **EVALUATION:** Engineering and Environmental Consultants, Inc. was selected in accordance with established City policies and procedures. Council awarded the permitting, study, and design of water and wastewater facilities contract on September 6, 2007.

9. **FINANCIAL IMPLICATIONS:**

Cost: \$139,760
Savings: N/A
Long Term Costs: N/A
Fund Source:

Acct. No.:	Fund Name:	Program Name:	CIP Funded:	Amount:
611.3910.0000.6814.10S621	WW Bond	Ocotillo WRF Rehabilitation	FY 09/10	\$139,760

10. **PROPOSED MOTION:** Move Council award Contract Amendment No. 7 to Engineering and Environmental Consultants, Inc. (EEC) for OWRF Maintenance and Operation Improvements, Project No. WW0813-201, in an amount not to exceed \$139,760.

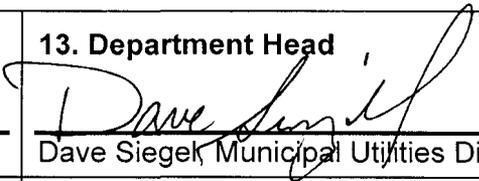
ATTACHMENTS: Location Map, Contract

APPROVALS

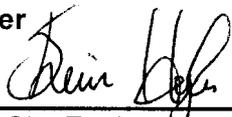
11. Requesting Department


John Knudson, Senior Engineer

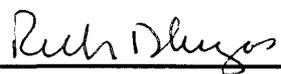
13. Department Head


Dave Siegel, Municipal Utilities Director

12. City Engineer

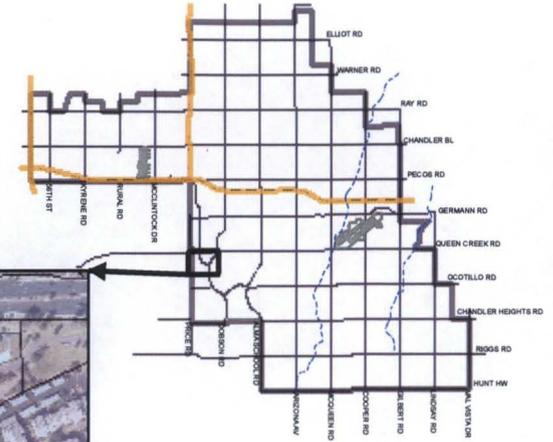

Sheina Hughes, City Engineer

14. Acting City Manager


Rich Dlugas



OWRF MAINTENANCE AND OPERATION IMPROVEMENTS PROJECT NO. WW0813-201



MEMO NO. CA11-090

 PROJECT SITE





Chandler Arizona

AMENDMENT NUMBER 7
TO PROJECT AGREEMENT NO.: WW0813-201
PURSUANT TO ANNUAL CONTRACT NO.: EN0719-101

Project Name: **OWRF Maintenance and Operation Improvements**
Project No.: **WW0813-201**

The City of Chandler (CITY) and **Engineering and Environmental Consultants, Inc.**, entered into an Annual Contract No. **EN0719-101**, dated **September 28, 2008**. Pursuant to this Annual Contract the parties entered into a Project Agreement dated **May 13, 2008**. This Amendment No. **7** to that certain Project Agreement between the City Of Chandler (CITY) and **Engineering and Environmental Consultants, Inc.**, for **OWRF Maintenance/Operation Improvements** 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 **One Hundred Thirty Nine Thousand Seven Hundred Sixty Dollars, (\$139,760)** for a total Contract Price not to exceed the sum of **Three Hundred Thirty Three Thousand Five Hundred Sixty Nine Dollars (\$333,569)** 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 Fifty Five days (455)** days for a total Contract Time of **One Thousand Seventy (1070)** days from the original Notice to Proceed.
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: _____
ATTEST:

City Clerk

ANNUAL CONSULTANT:

By: _____
Title: **VICE PRESIDENT - BRANLH MANAGER**

ATTEST: (If corporation)

Secretary

WITNESS: (If Individual or Partnership)

SEAL

Amendment No. 7 cont.

Project No. WW0813-201

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

ORIGINAL CONTRACT AMOUNT		\$ 51,862
CURRENT CONTRACT PRICE PRIOR TO THIS AMENDMENT (Including previous amendments)		\$ 193,809
NET INCREASE / DECREASE (Resulting from this amendment)		\$ 139,760
REVISED CONTRACT PRICE (Including this amendment)		\$ 333,569
AMENDMENT PERCENTAGE (Of original contract price)		<u>269%</u>
CONTRACT TIME PRIOR TO THIS AMENDMENT (Including previous amendments)		620
		(Days or Date)
NET INCREASE/DECREASE (Resulting from this amendment)		455
		(Days or Date)
REVISED CONTRACT TIME (Including this amendment)		1075
		(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>7</u>	Requires Council Approval	
	Greater than \$30,000*	X
	Greater than 10% of Contract *	X
*Including City Manager approved Amendments		
ORIGINAL CONTRACT COUNCIL DATE: <u>5/8/08</u> ITEM NO.:<u>29</u>, if applicable		
COUNCIL APPROVAL: _____ ITEM NO: _____, if applicable		
CITY OF CHANDLER (Date & Name of Owner Dept. verbal approval): <u>Robert Fortier 1/10/11</u>		

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

**EXHIBIT A
SCOPE OF WORK**

ANNUAL CONSULTANT shall perform additional tasks including site meetings; preparation of plans and specifications; coordination of sub-consultants, and bidding services as more generally described below as part of Phase 2 for the Ocotillo Water Reclamation Facility (OWRF) Maintenance and Operation Improvements.

- 1) **Repackage Plans and Specifications for Completed Designs:** The existing design plans and specifications for the following task items will be reviewed and repackaged to be submitted with this project plan set:
 - a.) **Painting of Piping and Appurtenances:** The existing plans and specifications will be reviewed for completeness and revised to delete pipe painting in the belt press room. Plan sheets shall be renumbered for inclusion into the complete set of plans and all sheet references shall be revised.
 - b.) **Clarifier No. 3 Rehabilitation:** The existing plans and specifications will be reviewed for completeness and revised integration with additional work to be done in Clarifier No. 1 and 2. Plan sheets shall be renumbered for inclusion into the complete set of plans and all sheet references shall be revised.
 - c.) **Remove and Install VFD's:** The existing plans and specifications will be reviewed for completeness and revised. Plan sheets shall be renumbered for inclusion into the complete set of plans and all sheet references shall be revised.
 - d.) **Instrumentation and Controls:** The existing plans and specifications will be reviewed for completeness and revised. Plan sheets shall be renumbered for inclusion into the complete set of plans and all sheet references shall be revised.
- 2) **Building Signage:** This task includes preparing plans and specifications for placement of building identification and emergency signage in accordance to the fire department and City of Chandler requirements. This scope includes up to two (2) field visits with the fire department and City staff to review the locations for signage and specific requirements. Plans and specifications will be prepared in accordance to requirements.
- 3) **HVAC Repairs:** This task includes preparing plans and specifications for HVAC repairs and relocations as recommended by the mechanical sub-consultant, Kunka Engineering.
- 4) **Administration Building upgrades and painting:** This task includes preparing plans and specifications for painting the exterior and the interior surfaces at the Administration Building. This task also includes preparation of plans and specifications for renovation work in the lunch/conference room which will encompass removal of existing and installation of new floor tile and cabinetry. The plans and specifications will be a performance specification where information will be provided for quantity, location and specific requirements of the work to be done.
- 5) **Chlorine Contact Tank Sun Screen Cover:** This task includes preparing plans and specifications for a sun screen cover for the Chlorine Contact Tank area as recommended by the structural sub-consultant, Nabar Stanley Brown, Inc.
- 6) **Reseal/Mill and Overlay on-site Asphalt Areas:** This task includes preparing plans and specifications for pavement areas to be re-sealed or to be milled and overlaid. An initial visual evaluation will be conducted by the geotechnical sub-consultant, RAMM, and field core samples to be taken in critical areas for evaluation of the condition of existing asphalt. Plans and specifications will be prepared in accordance to the recommendations of the evaluation. Surveying is not included in this task.

- 7) **Evaluate Belt Press Repair/Replacement:** This task includes performing an evaluation of the existing belt press operations and equipment and provide recommendations for repair, replacement in kind or replacement with alternative technology. The evaluation will encompass up to three (3) site visits to review existing operations and facility functionality and to verify existing equipment layout and space requirements. This task also includes review of electrical and instrumentation needs for each of the alternatives, and capital and O&M cost estimates for each alternative. This work will be coordinated with sub-consultants CRE and Jensen Systems.
- 8) **Clarifier No. 1 & 2 Evaluation and Rehabilitation:** This task includes sub-consultant engineer from Nabar Stanley Brown, Inc. entering into one of the clarifiers to evaluate existing conditions of clarifier equipment and structures. The assumed worst condition clarifier will be drained and evaluated. The observed conditions will be a basis of evaluation for all three clarifiers. Associated with this task, a confined space entry plan will need to be prepared for entry into the drained clarifier. ANNUAL CONSULTANT shall prepare the Confined Space Entry Plan and will conduct the confined space entry supervision. It is assumed City will drain and clean out the selected clarifier for entry and that this plan will be a supplement to the existing OWRP on-site Health and Safety plan. Up to two (2) initial site visits will be required to review the site for confined space permit clearance. This scope of work is based on the assumption that the site can be cleared such that a permit entry will not be required. The tank shall be visually evaluated. Preparation of structural repair plans and specifications of these clarifiers is not included in this task.
- 9) **Bidding Assistance:** This task includes attending pre-bid conference and providing responses to RFI's. Assumed 5 RFI's.

Additional Clarifications & Assumptions:

- Assumed that surveying not required and that existing site plans will be used as a base for the drawings.
- Work shall be for standard operations and maintenance construction and will not require any permit applications or permit modifications to review agencies.
- All sub-consultant work in above tasks covered in Sub-Consultant allowance.
- An allowance has been added to cover potential additional engineering work.
- Reimbursable allowance includes printing costs, mileage, and equipment rental for confined space entry.

**EXHIBIT B
FEE SCHEDULE**

Task	Description	Classification	Hrs.	Rate	Cost
1	Repackage Plans and Specifications				\$5,295
	Review existing plans and specifications and revise plans to include/delete areas not included in this project. Plan sheets and specification sections will be integrated with the complete project plans and specifications, cost estimate will be updated	Principal Engineer	1	175.00	\$175
		Project Manager III	4	140.00	\$560
		PE II	16	100.00	\$1,600
		CAD Operator V	30	90.00	\$2,700
		Admin assistant	4	65.00	\$260
2	Building Signage				\$8,220
		Project Manager III	4	140.00	\$560
		PE II	20	100.00	\$2,000
		CAD Operator V	60	90.00	\$5,400
		Admin assistant	4	65.00	\$260
3	HVAC Repairs				\$3,665
	Review repair and upgrade requirements with Mechanical/Electrical Engineer and prepare base sheets for Mechanical/HVAC work to be done at the administration building.	Principal Engineer	1	175.00	\$175
		Project Manager III	4	140.00	\$560
		PE II	10	100.00	\$1,000
		CAD Operator V	20	90.00	\$1,800
		Admin assistant	2	65.00	\$130
4	Admin Bldg. Upgrades and Painting				\$10,955
	Prepare performance plans and specifications for Painting the exterior and interior surfaces at the Administration Building, plans for renovation work in the lunch/conference room for cabinetry and tile work	Principal Engineer	1	175.00	\$175
		Project Manager III	8	140.00	\$1,120
		PE II	40	100.00	\$4,000
		CAD Operator V	60	90.00	\$5,400
		Admin assistant	4	65.00	\$260
5	CCT Sun Screen Cover				\$3,145
		Project Manager III	2	140.00	\$280
		PE II	10	100.00	\$1,000
		CAD Operator V	20	90.00	\$1,800
		Admin assistant	1	65.00	\$65
6	Reseal/Mill and Overlay				\$6,985
	Prepare plans and specifications for repair of existing on-site asphalt areas, in accordance to geotechnical consultant recommendations, includes cost estimate	Principal Engineer	1	175.00	\$175
		Project Manager III	2	140.00	\$280
		PE II	10	100.00	\$1,000
		CAD Operator V	60	90.00	\$5,400
		Admin assistant	2	65.00	\$130
7	Evaluate Belt Press				\$19,410
	Evaluate existing belt-press equipment, layout and operations and provide recommendations for required repair, replacement in-kind or with alternative process.	Principal Engineer	2	175.00	\$350
		Project Manager III	10	140.00	\$1,400
		PE II	120	100.00	\$12,000
		CAD Operator V	60	90.00	\$5,400
		Admin assistant	4	65.00	\$260
8	Clarifier Rehabilitation				\$9,280
	Prepare base plans for Structural Engineer and review existing clarifier conditions. Prepare confined space entry plan and provide confined space entry supervision	Principal Engineer	2	175.00	\$350
		Project Manager III	4	140.00	\$560
		PE II	10	100.00	\$1,000
		ES IV (Field Inspector)	16	90.00	\$1,440
		ES V	40	100.00	\$4,000
		CAD Operator V	20	90.00	\$1,800
		Admin assistant	2	65.00	\$130

Task	Description	Classification	Hrs.	Rate	Cost
9	Bidding Assistance				\$2,685
	Attend pre-bid conference, provide responses to RFI's (assume 5 RFI's)	Principal Engineer	1	175.00	\$175
		Project Manager III	4	140.00	\$560
		PE II	15	100.00	\$1,500
		CAD Operator V	5	90.00	\$450
10	Sub-Consultants Allowance				\$57,620
	Electrical				\$7,422
	Instrumentation & Controls				\$5,693
	Mechanical				\$12,075
	Structural				\$29,555
	Geotechnical				\$2,875
11	Allowance for Additional Tasks				\$10,000
12	Reimbursable Allowance				\$2,500
	Total				\$139,760