

CITY OF PEORIA, ARIZONA
COUNCIL COMMUNICATIONS

CC: 11C

Amend No. _____

Date prepared: April 16, 2008

Council Meeting Date: May 6, 2008

TO: Terrence L. Ellis, City Manager

FROM: Stephen L. Bontrager, Utilities Director 

THROUGH: Shawn V. Kreuzwiesner, Utilities Engineering Manager 

PREPARED BY: Javier Setovich, Construction Superintendent

SUBJECT: Award a contract for the design phase of a design/build contract to MGC Construction for improvements to the Beardsley Water Reclamation Facility Phase IIIA Expansion and Recharge Basin 13 Capital Improvement Projects UT00124 and UT00196 (Solicitation No. P08-0010)

RECOMMENDATION:

That Mayor and Council award the design phase of a design/build contract to MGC Construction for improvements to the Beardsley Water Reclamation Facility Phase IIIA Expansion and the rehabilitation of Recharge Basin 13 for an amount not to exceed \$960,228.00. Payment will be made from Wastewater Utility accounts 2400-2470-540500-CIPWR-UT00124 and 2400-2470-540500-CIPWR-UT00196.

SUMMARY:

The Beardsley Water Reclamation Facility (WRF) is located at 19980 North 111th Avenue and treats the wastewater flows for this portion of the City located north of Beardsley Road and east of the Agua Fria River. The Master Plan for the facility (dated June 2003) identified the need to upgrade the treatment capacity from 4 million gallons per day (MGD) to 6 MGD by the end of fiscal year (FY) 2009 to meet growth projections. However, the updated 2008 growth trend projections have determined that the expansion to 6 MGD is not required until FY2012.

The expansion of the Beardsley WRF will be completed in two separate phases (Phase IIIA and Phase IIIB) due to the need to complete several operational improvements ahead

CITY CLERK USE ONLY:

- Consent Agenda
- Carry Over to Date: _____
- Approved
- Unfinished Business (Date heard previous: _____)
- New Business

ORD. # _____ RES. # _____
LCON# 03608 LIC. # _____
Action Date: _____

of adding plant capacity. Addressing these issues will ensure the plant can maintain the current level of capacity along with increasing overall redundancy of the process systems to allow the plant to maintain general operations, handle peak flows, and handle unexpected emergencies. These improvements include upgrades to the plant electrical systems, along with additions to the existing clarifying, filtering and disinfection systems. This project will also correct a problem with the existing Recharge Basin No. 13. This basin was constructed in 2006, but due to low pecculation rates and water filtering onto the adjacent property, staff has stopped using it. The basin needs to be rehabilitated to ensure the plant has adequate recharge capacity to meet the expected flows in the upcoming years.

The work to complete Phase IIIA plant upgrades and the recharge basin rehabilitation will be conducted in FY2009 through FY2010. This project is being awarded as a Design Build contract, in which the selected vendor takes the project from the conception stage through the completion of construction. Once the design work is complete, a guaranteed maximum price (GMP) is developed for the construction phase. The Beardsley WRF Phase IIIA and Recharge Basin No. 13 repairs have a total budget for design and construction of \$8,712,546.00. The total cost of the design phase will not exceed \$960,228.00. The cost of design phase is the following: plant improvements are \$867,457.00 and payment will be made from Wastewater Utility account 2400-2470-540500-CIPWR-UT00124; the recharge basin rehabilitation will cost \$92,771.00 and payment will be made from Wastewater Utility 2400-2470-540500-CIPWR-UT00196.

Staff recommends that Mayor and Council award the design of the design/build contract to MGC Construction for improvements to the Beardsley WRF Phase IIIA Expansion and Recharge Basin 13 rehabilitation. Once design is complete, staff will return to ask Mayor and Council to award the GMP for the construction phase of the work. Phase IIIB of the plant expansion is scheduled to be completed in FY2012/13, and will upgrade the treatment capacity to a total of 6 MGD. The design and construction portions of the Phase IIIB expansion will be awarded as a separate contract.

ATTACHMENT

Exhibit "A" – Summary of Design Phase costs

Beardsley WRF DB Expansion

**MGC Contractors, Inc.
Design Build Preconstruction Services**

Prepared by: RG & MP
Date: 24-Apr-08

No.	Description	Estimator		Precon Manager		Project Manager		Project Engineer		Superintendent		Sub-Consultant GMP	Subtotal	Profit 6%	Total
		HRS	\$/HR	HRS	\$/HR	HRS	\$/HR	HRS	\$/HR	HRS	\$/HR				
			\$110		\$105		\$95		\$43		\$65				
1	Scope Evaluation														
	Preliminary Scope	1	\$110	8	\$840	8	\$760	8	\$344	-	\$0		\$2,054	\$123	\$2,177
	30% Design	2	\$220	8	\$840	6	\$570	9	\$387	-	\$0		\$2,017	\$121	\$2,138
2	Project Design														
	Carollo Engineers (See Attached)											\$758,830	\$758,830	\$45,530	\$804,360
	Design Review (14 Meetings)	8	\$880	50	\$5,250	50	\$4,750	50	\$2,150	8	\$520		\$13,550	\$813	\$14,363
	Design Workshops (2 each)	-	\$0	16	\$1,680	16	\$1,520	16	\$688	8	\$520		\$4,408	\$264	\$4,672
	Pre-Design Land Survey											\$5,000	\$5,000	\$300	\$5,300
	Preconstruction Soils Testing											\$2,000	\$2,000	\$120	\$2,120
3	Construction Cost Estimate														
	Preconstruction & Initial construction	10	\$1,100	6	\$630	4	\$380	2	\$86	-	\$0		\$2,196	\$132	\$2,328
	60% Cost Estimate	30	\$3,300	20	\$2,100	10	\$950	10	\$430	4	\$260		\$7,040	\$422	\$7,462
	90% Cost Estimate	10	\$1,100	10	\$1,050	10	\$950	10	\$430	4	\$260		\$3,790	\$227	\$4,017
	100% Cost Estimate	10	\$1,100	10	\$1,050	5	\$475	5	\$215	2	\$130		\$2,970	\$178	\$3,148
	Produce GMP	2	\$220	12	\$1,260	2	\$190	-	\$0	-	\$0		\$1,670	\$100	\$1,770
4	Construction Scheduling														
	Preconstruction & Initial construction	1	\$110	-		4	\$380	4	\$172	2	\$130		\$792	\$48	\$840
	60% Cost Estimate	2	\$220	2	\$210	16	\$1,520	16	\$688	8	\$520		\$3,158	\$189	\$3,347
	90% Cost Estimate	-	\$0	2	\$210	10	\$950	10	\$430	2	\$130		\$1,720	\$103	\$1,823
	100% Cost Estimate	-	\$0	2	\$210	6	\$570	6	\$258	2	\$130		\$1,168	\$70	\$1,238
5	Subcontractor, Prequalification, Meetings, Bids and Contracts														
		12	\$1,320	10	\$1,050	16	\$1,520	16	\$688	-	\$0		\$4,578	\$275	\$4,853
6	Reimbursables, Printing, Copying, Delivery, etc.														
		88	\$9,680	156	\$16,380	163	\$16,485	162	\$6,966	40	\$2,600	\$765,830	\$816,941	\$49,016	\$867,457
	SUBTOTAL														
7	Recharge Basin 13 Modifications														
	Carollo Engineers (See Attached)											\$9,860	\$9,860	\$592	\$10,452
	MGC Preconstruction Services	3	\$330	6	\$630	6	\$570	3	\$129		\$0		\$1,659	\$100	\$1,759
	Pre-Design Land Survey											\$1,000	\$1,000	\$60	\$1,060
	Preconstruction Geotechnical Drilling and Soils Testing											\$75,000	\$75,000	\$4,500	\$79,500
	SUBTOTAL	3	\$330	6	\$630	6	\$670	3	\$129	-	\$0	\$85,860	\$87,619	\$6,261	\$92,770
	TOTAL	91	\$10,010	162	\$17,010	169	\$16,055	165	\$7,095	40	\$2,600	\$851,690	\$904,460	\$64,268	\$960,228



City of Peoria, Arizona

Design/Build Agreement



Statement of Qualifications No: P08-0010

Job Description: Beardsley WRF Phase IIIA Expansion

Location: City of Peoria, Materials Management

Contact: Athena Bonner

Mailing Address: 8314 W. Cinnabar St., Peoria, AZ 85345

Phone: (623) 773-7115

OFFER

Arizona Transaction (Sales) Privilege

Tax License Number: [REDACTED]

Contractor's

License Number: ROC 069949

Federal Employer Identification

Number: [REDACTED]

MGC CONTRACTORS, INC.

Company Name

[REDACTED]
Authorized Signature for Offer

4110 E. ELWOOD ST.

Address

RANDY L. GATES

Printed Name

PHOENIX

City

AZ

State

85040

Zip Code

GENERAL MANAGER.

Title

(602) 437-5000

Telephone

(602) 470-4000

Facsimile

ACCEPTANCE OF OFFER AND CONTRACT AWARD (For City of Peoria Use Only)

Your offer is hereby accepted. The Contractor is now bound to sell the materials and/or services listed by the attached award notice based upon the solicitation, including all terms conditions, specifications, amendments, etc., and the Contractor's offer as accepted by the City. The Contractor is hereby cautioned not to commence any billable work or provide any material, service or construction under this contract until Contractor receives an executed **Purchase Order**.

Attested by:

City of Peoria, Arizona.

Eff. Date: _____

Mary Jo Kief, City Clerk

Approved as to form:

Stephen M. Kemp, City Attorney

11C 050608
CC
L  **03608**

Awarded on _____

Contract Number

1

Official File

Terrence L. Ellis, City Manager