



Chandler - Arizona
Where Values Make The Difference

**PURCHASING ITEM
FOR
COUNCIL AGENDA
Memo No. CA09-038**

1. Agenda Item Number: 22
2. Council Meeting Date: September 11, 2008

TO: MAYOR & COUNCIL
THROUGH: CITY MANAGER

3. Date Prepared: July 21, 2008
4. Requesting Department: Municipal Utilities

5. SUBJECT: Award a project agreement to SDB, Inc. for the Ocotillo Water Reclamation Facility Electrical Upgrades, Project No. WW0902-401, in an amount not to exceed \$1,509,766.00 under Job Order Contract JOC07-04.

6. RECOMMENDATION: Staff recommends that Council award a project agreement to SDB, Inc. for the Ocotillo Water Reclamation Facility Electrical Upgrades, Project No. WW0902-401, in an amount not to exceed \$1,509,766.00 under Job Order Contract JOC07-04.

7. BACKGROUND/DISCUSSION: The Ocotillo Water Reclamation Facility (OWRF) is owned by the City of Chandler but privately operated by Severn Trent Environmental Services. The OWRF was constructed in 1985, with much of the equipment in the facility nearing the end of its projected life and potentially in need of rehabilitation or replacement. In September 2005, Brown and Caldwell performed an asset management evaluation to identify the condition of the equipment and infrastructure and to formulate a capital maintenance and replacement plan. The objective of this evaluation was to identify necessary activities to maintain the reliability and sustainability of the reclamation facility assets in order to continuously achieve the expected treatment performance.

The results from the evaluation identified the electrical switchgear and backup generators for the facility as two key assets in need of replacement and upgrades. The work under this project agreement will include removing and replacing the existing Ocotillo Plant switchgear; upgrade controls on two backup generators; electrical conduit installation; temporary installation of rental generators during construction; and acceptance testing of new electrical systems.

Construction is slated to begin in fall 2008 with a construction duration of approximately six months.

8. EVALUATION: On January 31, 2008 Council approved a one-year extension to SDB, Inc., Job Order Contract JOC07-04, for general construction services in an amount not to exceed \$5,000,000. The costs proposed for this project have been reviewed by City Staff and compared to historical prices for similar City projects and determined that they are acceptable.

9. FINANCIAL IMPLICATIONS:

Cost: \$1,509,766
Savings: N/A
Long Term Costs: N/A
Fund Source:

Acct. No.:	Fund Name:	Program Name:	CIP Funded:	Amount:
611.3910.0000.6814.9WW621	Wastewater Bond Fund	Ocotillo Water Reclamation Facility Rehabilitation	FY 08/09	\$1,509,766

10. PROPOSED MOTION: Move that Council award a project agreement to SDB, Inc. for the Ocotillo Water Reclamation Facility Electrical Upgrades, Project No. WW0902-401, in an amount not to exceed \$1,509,766.00 under Job Order Contract JOC07-04.

ATTACHMENTS: Location Map, Project Agreement

APPROVALS

11. Requesting Department

Robert Mulvey
Robert Mulvey, Assistant Municipal Utilities Director

13. Department Head

Dave Siegel
Dave Siegel, Municipal Utilities Director

12. City Engineer

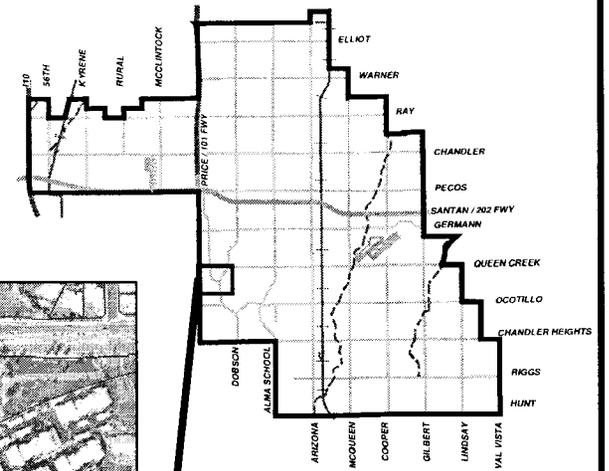
Sheina Hughes
Sheina Hughes, Assistant Public Works Director/City Engineer

14. City Manager

W. Mark Pentz
W. Mark Pentz



OCOTILLO WATER RECLAMATION FACILITY ELECTRICAL UPGRADES PROJECT NO. WW0902-401



MEMO NO. CA09-038

 PROJECT AREA



**EXHIBIT A
SCOPE OF WORK**

JOC shall provide all labor and materials for the Ocotillo Water Reclamation Facility (OWRF) Electrical Upgrades including removing and replacing the existing Ocotillo Plant switchgear; upgrading two backup facility generators; electrical conduit installation; concrete pad extension for gear enclosure; temporary installation of rental generators during construction; and acceptance testing of new electrical systems.

**EXHIBIT B
FEE SCHEDULE**

CSI	Description			Cost	
01	Division 1 - General Requirements			\$ 20,550.00	
26	Division 26 - Electrical			\$ 1,292,290.00	
			Sub Total	\$1,312,840.00	
		Coefficient	15.0%	\$ 196,926.00	
		Total		\$ 1,509,766.00	
DIVISION BREAKDOWN					
QUAN	CSI	Description	Unit	\$ per Unit	Total
	Division 1	General Requirements			
160.0	01-3105	Project Manager	EA	\$ 70.00	\$ 11,200.00
160.0	01-3120	Superintendent	EA	\$ 55.00	\$ 8,800.00
1.0	01-5220	Portable Toilet	EA	\$ 150.00	\$ 150.00
1.0	01-7415	Dumpster	EA	\$ 400.00	\$ 400.00
		Total - Division 1 - General Requirements			\$ 20,550.00
	Division 26	Electrical			
		Electrical Contractor			
1.0	26-0501	Site verification, research, locating, and pot holing	LS	\$ 8,402.00	\$ 8,402.00
1.0	26-0501	Concrete pad extension for gear enclosure	LS	\$ 5,348.00	\$ 5,348.00
1.0	26-0501	Saw cut and pour back existing pad for new feed	LS	\$ 4,350.00	\$ 4,350.00
1.0	26-0501	Generator rentals with fuel for two weeks, including one standby	LS	\$ 181,444.00	\$ 181,444.00
1.0	26-0501	Core drill existing manholes	LS	\$ 3,637.00	\$ 3,637.00
1.0	26-0501	Crane to remove existing gear enclosure	LS	\$ 2,651.00	\$ 2,651.00
1.0	26-0501	Crane to move existing gear enclosure for owner salvage	LS	\$ 2,651.00	\$ 2,651.00
1.0	26-0501	Crane to set new gear enclosure	LS	\$ 4,711.00	\$ 4,711.00
1.0	26-0501	Install rental generators	LS	\$ 12,188.00	\$ 12,188.00
1.0	26-0501	Labor to remove existing gear enclosure	LS	\$ 6,541.00	\$ 6,541.00
1.0	26-0501	Install new manhole	LS	\$ 15,828.00	\$ 15,828.00
1.0	26-0501	Conduits in saw cut for gear enclosure	LS	\$ 2,542.00	\$ 2,542.00
1.0	26-0501	Trenching and backfill from service yard to MH 6	LS	\$ 5,806.00	\$ 5,806.00
1.0	26-0501	Conduits from service yard to MH 6	LS	\$ 12,264.00	\$ 12,264.00
1.0	26-0501	Remove existing conductors from blower building to final building	LS	\$ 11,032.00	\$ 11,032.00
1.0	26-0501	Clean and swab conduits from blower building to final building	LS	\$ 2,760.00	\$ 2,760.00
1.0	26-0501	New conductors from blower building to final building	LS	\$ 66,184.00	\$ 66,184.00
1.0	26-0501	Labor to install gear enclosure	LS	\$ 4,660.00	\$ 4,660.00
1.0	26-0501	Labor to terminate gear at final building	LS	\$ 742.00	\$ 742.00
1.0	26-0501	Conduit and wire for generator controls	LS	\$ 7,833.00	\$ 7,833.00
1.0	26-0501	Gear testing and start up	LS	\$ 14,201.00	\$ 14,201.00
1.0	26-0501	Remove rental generators	LS	\$ 2,951.00	\$ 2,951.00
1.0	26-0501	Additional conduit from MH 6 to final building if needed	AL	\$ 48,950.00	\$ 48,950.00
2.0	26-0501	Additional week of generator standby	AL	\$ 69,813.00	\$ 139,626.00
		Switchgear Manufacturer			
1.0	26-2310	Switchgear with 36 week lead time	LS	\$ 559,780.00	\$ 559,780.00
1.0	26-2310	Add for reduction of lead time to 24 weeks	AL	\$ 83,802.00	\$ 83,802.00
1.0	26-2310	Verification of conduit stubs	LS	\$ 1,500.00	\$ 1,500.00
1.0	26-2310	Engineering of generator control to switchgear drawings	LS	\$ 12,000.00	\$ 12,000.00
1.0	26-2310	Installation supervision by switchgear supplier	LS	\$ 12,800.00	\$ 12,800.00
1.0	26-2310	Acceptance testing of switchgear	LS	\$ 9,600.00	\$ 9,600.00
1.0	26-2310	Protective device settings	LS	\$ 750.00	\$ 750.00
1.0	26-2310	Functional testing and commissioning of switchgear	LS	\$ 4,000.00	\$ 4,000.00
1.0	26-2310	Site training for staff	LS	\$ 1,600.00	\$ 1,600.00
1.0	26-2310	Factory witness	LS	\$ 3,600.00	\$ 3,600.00
		Generator Contractor			
1.0	26-3010	Generator control modifications	LS	\$ 35,556.00	\$ 35,556.00
		Total - Division 26 - Electrical			\$ 1,292,290.00