



Chandler - Arizona
Where Values Make The Difference

**PURCHASING ITEM
FOR
COUNCIL AGENDA
Memo No. CA08-256**

1. Agenda Item Number:

43

2. Council Meeting Date:
May 22, 2008

TO: MAYOR & COUNCIL

3. Date Prepared: April 17, 2008

THROUGH: CITY MANAGER

4. Requesting Department: Public Works

5. SUBJECT: Approval of Contract Amendment No. 3 in the amount of \$144,298 to the design services contract with Engineering and Environmental Consultants, Inc. for the Dobson Road/Chandler Boulevard Intersection Improvements, Project No. ST0503-201, for a revised contract total of \$939,139.

6. RECOMMENDATION: Staff recommends Council approve Contract Amendment No. 3 in the amount of \$144,298 to the design services contract with Engineering and Environmental Consultants, Inc. for the Dobson Road/Chandler Boulevard Intersection Improvements, Project No. ST0503-201, for a revised contract total of \$939,139.

7. BACKGROUND/DISCUSSION: The intersection improvements are required to relieve congestion at this high traffic volume, major arterial intersection. The project consists of the design and preparation of contract documents for intersection widening to provide three thru lanes in each direction, right turn lanes in each direction, bus bays in each direction, queue jumper lanes for bus rapid transit on Chandler Boulevard, dual left turn lanes in each direction, bike lanes in each direction, storm drainage/retention, utility relocation, new traffic signals, landscaping, and legal descriptions. This project also includes the addition of two auxiliary lanes on Dobson Road, median modifications, street light improvements, and a mill and overlay on Dobson Road from Chandler Boulevard to Frye Road.

This contract amendment will allow for the supplementary engineering design costs associated with the additional scope of work to:

1. Redesign the influent storm water piping and retention basin configuration on the east and west side of Dobson Road. (\$28,435)
2. Provide an update to the Phase 1 Environmental Site Assessment Report to extend the expiration date for another 180 days in order for real estate acquisition to occur. (\$4,380)
3. Modify the design plans for the up lighting of palm trees and additional plantings for the retention basins to enhance the landscape aesthetics of the intersection. (\$15,583)
4. Prepare legal descriptions and exhibits for 20 additional SRP electrical easements and 1 drainage easement. (\$36,380)
5. Provide Post-Design services during construction to include attendance at pre-construction and progress meetings, respond to contractor RFI's, review shop drawings and material submittals, and prepare As-Built drawings. (\$59,520)

8. EVALUATION: Engineering and Environmental Consultants, Inc. was selected in accordance with established City policies and procedures. Council awarded the engineering services contract on September 8, 2004.

9. FINANCIAL IMPLICATIONS:

Total Design Contract:		\$ 615,031
Contract Amendment No. 1:		Time Extension Only
Contract Amendment No. 2:	(29.23%)	\$ 179,810
Contract Amendment No. 3:	(23.46%)	\$ 144,298
Revised Contract Amount:		\$ 939,139

Savings: N/A

Long Term Costs: N/A

Fund Source:

<u>Acct. No.:</u>	<u>Fund Name:</u>	<u>Program Name:</u>	<u>CIP Funded:</u>	<u>Amount:</u>
411.3310.0000.6517.7ST314	GO Bonds - Streets	Dobson Chandler Intersection	FY06/07	\$144,298

10. PROPOSED MOTION: Move that Council approve Contract Amendment No. 3 in the amount of \$144,298 to the design services contract with Engineering and Environmental Consultants, Inc. for the Dobson Road/Chandler Boulevard Intersection Improvements, Project No. ST0503-201, for a revised contract total of \$939,139, and authorize the Mayor to sign the contract documents.

ATTACHMENTS: Location Map, Contract Amendment

APPROVALS

11. Requesting Department



Daniel W. Cook, Deputy Public Works Director

13. Department Head



R.J. Zeder, Public Works Director

12. City Engineer



Sheina Hughes, Assistant Public Works Director/City Engineer

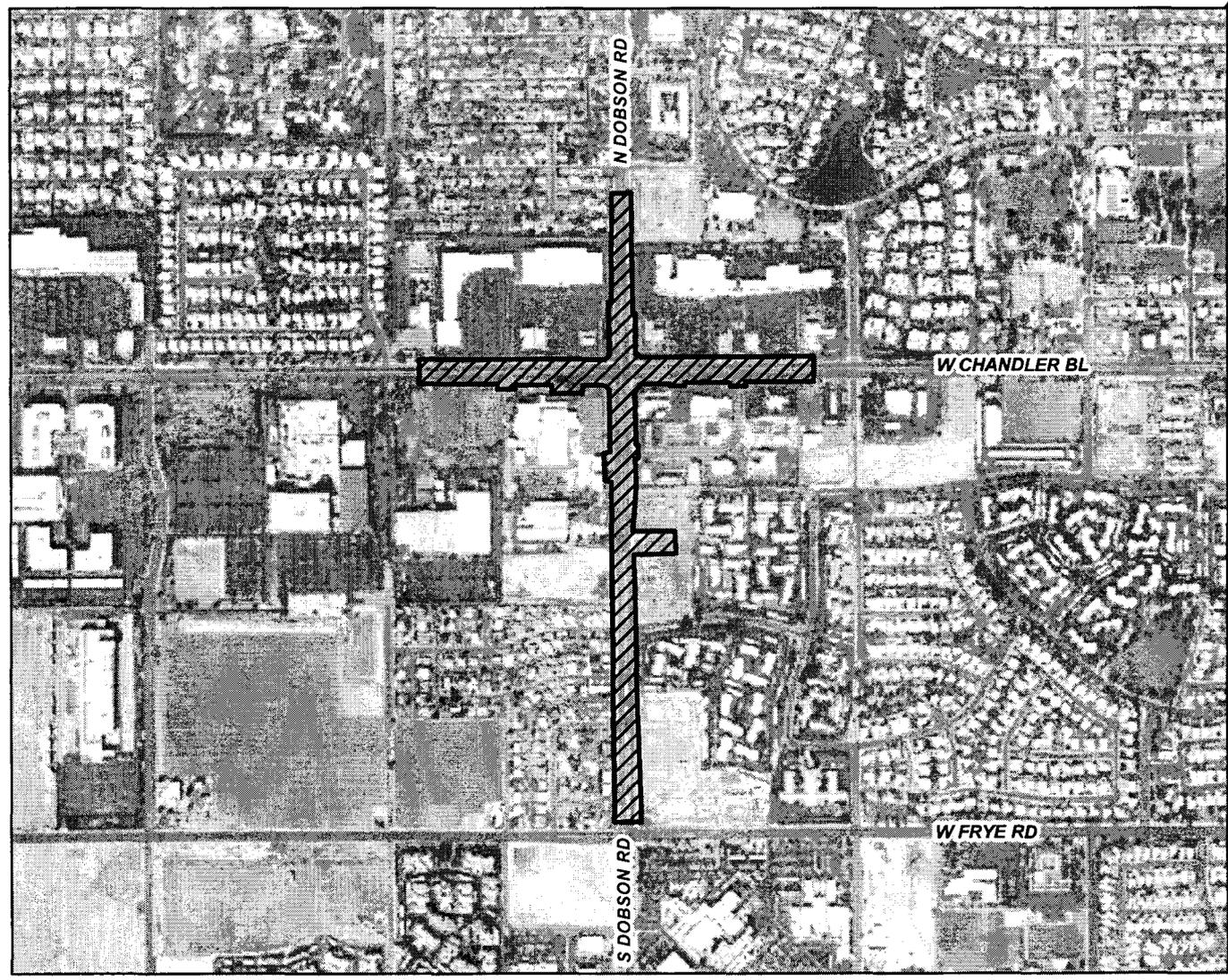
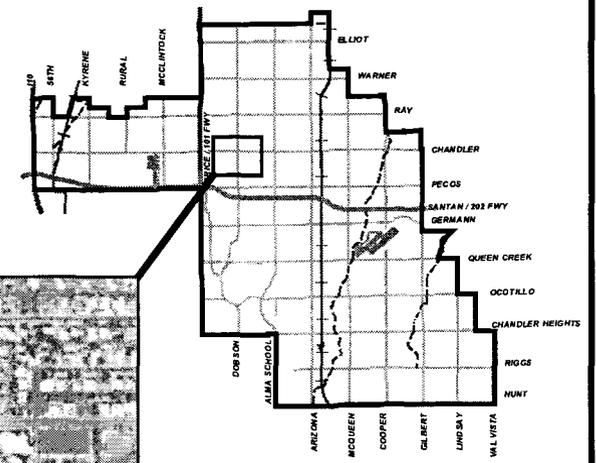
14. City Manager



W. Mark Pentz



DOBSON ROAD AND CHANDLER BOULEVARD INTERSECTION IMPROVEMENTS PROJECT NO. ST0503-201



**MEMO NO. CA08-256
CONTRACT AMENDMENT NO. 3**

 IMPROVEMENT AREA





Chandler Arizona

AMENDMENT NUMBER 3

Project Name: Dobson Road/Chandler Boulevard Intersection Improvements
Project No.: ST0503-201

This Amendment No. 3 to that certain Agreement Between the City Of Chandler (CITY) and Engineering and Environmental Consultants, Inc., an Arizona Corporation, for Dobson Road/Chandler Boulevard Intersection Improvements dated 8, September, 2004 is entered into this day of , 2008.

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

NOW THEREFORE, the parties agree as follows:

- 1. Section 2 of the above referenced Agreement is hereby amended by adding additional scope of work as described in more detail in Exhibit A attached hereto and incorporated herein by reference.
2. Section 3 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 Forty Four Thousand Two Hundred Ninety Eight dollars (\$144,298) all payable in accordance with Exhibit B, for a total Contract Price not to exceed the sum of Nine Hundred Thirty Nine Thousand One Hundred Thirty Nine dollars (\$939,139).
3. Section 4 of the above reference agreement is hereby amended to add Two Hundred Fifteen (215) additional days to the contract time (new end date of October 15, 2009).
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 _____, 2008.

CITY OF CHANDLER:

By: _____ Date
MAYOR

APPROVED AS TO FORM:

City Attorney ATTEST: [Signature]

City Clerk

ENGINEER:

By: [Signature] Title: VICE PRESIDENT
ATTEST: (If corporation)

Secretary WITNESS: (If Individual or Partnership)

SEAL

Amendment No. 3 cont.

Project No. ST0503-201

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

ORIGINAL CONTRACT AMOUNT	\$ 615,031.00
CURRENT CONTRACT PRICE PRIOR TO THIS AMENDMENT (Including previous amendments)	\$ 794,841.00
NET INCREASE / DECREASE (Resulting from this amendment)	\$ 144,298.00
REVISED CONTRACT PRICE (Including this amendment)	\$ 939,139.00
AMENDMENT PERCENTAGE (Of original contract price)	23.5%
CONTRACT TIME PRIOR TO THIS AMENDMENT (Including previous amendments)	1,648 (Days or Date)
NET INCREASE/DECREASE (Resulting from this amendment)	215 (Days or Date)
REVISED CONTRACT TIME (Including this amendment)	1,863 (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>3</u>	Requires Council Approval Greater than \$30,000* <u>X</u>
	Greater than 10% of Contract * <u>X</u>
*Including City Manager approved Amendments	
ORIGINAL CONTRACT COUNCIL DATE: 8/26/04 ITEM NO.: 11, if applicable	
COUNCIL APPROVAL: _____ ITEM NO.: _____, if applicable	

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

EXHIBIT A
SCOPE OF WORK

The ENGINEER shall:

Relocate Retention Basin

This change in scope resulted in a redesign of the influent storm water piping and retention basin configuration. Subsequent to the relocation of the retention basin on the west side of Dobson Road, the ENGINEER was instructed by the CITY to decrease the size of the storm water retention basin and reconfigure it to accommodate the Rogers Corporation property. A retention pond was then added east of Dobson Road to allow for the decreased storage west of Dobson Road. As a result, the ENGINEER had to coordinate activities with adjacent landowners to reconfigure and resize retention basins on both east and west sides of Dobson Road which required additional hydrologic and hydraulic calculations, and redesign of the storm water pipeline alignment to suit these new conditions. In addition, the basins, storm drains and the storm drain inlets on the NW corner of the Chandler/Dobson intersection were redesigned to lower the HGL to accommodate the Old Worldcom building site.

Environmental

Prepared an update to the Phase I Environmental Site Assessment Report in order to ensure that there were no new recognized environmental conditions that would impact the rights of way or temporary construction easements. ENGINEER performed additional environmental field surveys of the project, requested and researched an update to the regulatory database, and issued an addendum to the City of Chandler extending the Phase 1 Environmental Site Assessment Report for an additional 180 days.

Landscape Plans

The CITY requested that up lighting be installed within the landscape aesthetics of the intersection improvements. This change involved additional services by the ENGINEER to modify the design plans for the up lighting of the palm trees and additional plantings for the retention basins. In addition, the ENGINEER retained an electrical sub consultant to design the power supply and controllers for the up lighting modifications.

Right-of-Way Requirements/Legal Descriptions/Utility Coordination

The previous change order (#2) issued by the CITY reimbursed the ENGINEER for additional costs related to the preparation of detailed legal descriptions, certified exhibits and closure documentation for parcels that were not originally considered in the scope of work. This work required the ENGINEER to collect vesting deeds, survey new property lines necessary for the preparation of right-of-way acquisitions and easements. The ENGINEER was reimbursed for costs that were based on the effort expended as of August 2007.

Subsequent to that date, the ENGINEER incurred costs associated with the preparation of additional detailed legal descriptions for the aerial and ground easements required by SRP along with a revised drainage easement not included under Change Order #2. There were a total of 29 additional easements (28 electric and 1 drainage) identified since August 2007 that required the preparation of detailed legal descriptions, certified exhibits, closure documentation and additional surveying. Of these, there were 9 easements included in the original 5 parcels of the contract. The time associated with preparing these 9 easements is not included in our request for additional funding. The additional revisions resulting from SRP's final recommended changes resulted in an increased level of effort to coordinate these activities over and above the previous amount provided by the CITY.

Post Design Services

The ENGINEER shall provide post design services throughout the duration of construction to include:

- Attend preconstruction meeting and 6 progress meetings
- Respond up to 24 RFI's
- Review of shop drawings and material submittals
- Preparation of As-Built drawings

EXHIBIT B
FEE SCHEDULE

SCOPE OF WORK DESIGN SERVICES	Principal in Charge	Project Manager	Project Engineer	Engineering Designer	CAD Technician	Prof Surveyor	Survey Manager	Field Survey- 2 Man	Project Accountant	Clerical	Other Direct	TOTAL
RATE	\$165	\$135	\$115	\$90	\$75	\$115	\$95	\$125	\$75	\$60		
Relocation and Revisions to Retention Basin		16	95	64	110		2	8	2			\$28,435.00
Landscape Plans		14	24		60.5				4		\$5,300.00	\$15,582.50
Environmental		12		24	8							\$4,380.00
ROW/Legal Descriptions and Utility Coordination		28	38	76	45	102	20	16	3	36		\$36,380.00
DESIGN TOTAL =	0	70	157	164	223.5		22		9	36		\$84,777.50

SCOPE OF WORK Post Design Services	Principal in Charge	Project Manager	Project Engineer	Engineering Designer	CAD Technician	Survey Manager	Project Accountant	Clerical	Field Survey-2 Man	TOTAL
RATE	\$165	\$135	\$115	\$90	\$75	\$95	\$75	\$60	\$125	
Preconstruction and progress meetings (7 meetings)		40	24				4	16		\$9,420.00
Respond to RFIs (not to exceed 24)		40	64	24	24		4	8		\$17,500.00
Shop Drawing Review (10 Sets)		24	40	24			4	16		\$11,260.00
Record Drawings		16	24	40	80	16	4		40	\$21,340.00
POST DESIGN TOTAL	0	120	152	88	104	16	16	40	40	\$59,520.00
DESIGN AND POST DESIGN TOTAL										\$144,298.00