

# BOARD OF SUPERVISORS AGENDA ITEM SUMMARY

Requested Board Meeting Date: April 15, 2014

## ITEM SUMMARY, JUSTIFICATION and/or SPECIAL CONSIDERATIONS:

Amendment # 1, Contract # CT-TR-14000000000000000181, Structural Grace, Inc., to provide ROADWAY PLANNING AND DESIGN ENGINEERING SERVICES FOR SUNSET ROAD: SILVERBELL ROAD TO RIVER ROAD. Funding sources: Tucson Mountain Area Impact Fees. Administering Department: Transportation

This amendment increases compensation by \$81,320.00 and the term by six months in order to accommodate additional modeling of the Lower Santa Cruz River to confirm assumptions on the length of bridge necessary to cross the Santa Cruz River, having a substantial impact on construction costs. The increase in compensation will be made with no change in rates.

Effective Date: April 15, 2014

Termination Date: May 3, 2018

Original Contract Amount: \$2,992,089.00

Previous Amendment(s): \$0.00

Previous Contract Amount: \$2,992,089.00

Amount this Amendment: \$81,320.00

Revised Contract Amount: \$3,073,409.00

Project Manager: Jason Bahe, 724-6522  
Department of Transportation

Contract Officer: Mark Koskiniemi, 724-3723  
Procurement Department

Vendor is using a Social Security Number: No

AMS CT #: CT-TR-14000000000000000181

Please return to Harry Lewis.

CT-TR-14\*181-01  
04-15-2014  
05-03-2018  
\$81,320.00  
\$81,320.00  
\$3,073,409.00  
Index: YES  
Renewal: 02-01-2018  
Term: 05-03-2018

CLERK OF BOARD USE ONLY:

BOS MTG. \_\_\_\_\_

ITEM NO. \_\_\_\_\_

Procure Dept 03/31/14 PM0250

Ver. 2

Vendor-1

Pgs. 7

To: CWB- 4.2.13  
Agenda 4.15.13  
(11)

**PIMA COUNTY DEPARTMENT OF TRANSPORTATION**

**PROJECT:** ROADWAY PLANNING AND DESIGN  
ENGINEERING SERVICES FOR  
SUNSET ROAD: SILVERBELL ROAD TO  
RIVER ROAD

**CONSULTANT:** Structural Grace, Inc.  
1430 E. Ft. Lowell Rd., Suite 200  
Tucson, AZ 85719

**CONTRACT NO.:** CT-TR-14000000000000000181

**AMENDMENT NO.:** One (1)

**FUNDING:** Tucson Mountain Area Impact Fees

**CONTRACT**

NO. CT-TR-14000000000000000181

AMENDMENT NO. 01

This number must appear on all  
invoices, correspondence and  
documents pertaining to this  
contract.

<b>CONTRACT TERM:</b> 11/4/13 to 11/3/17	<b>ORIGINAL CONTRACT AMOUNT:</b>	\$	2,992,089.00
<b>TERMINATION PRIOR AMENDMENT:</b> N/A	<b>PRIOR AMENDMENT(S):</b>	\$	-
<b>TERMINATION THIS AMENDMENT:</b> 5/3/18	<b>AMOUNT THIS AMENDMENT:</b>	\$	81,320.00
	<b>REVISED CONTRACT AMOUNT:</b>	\$	3,073,409.00

**CONTRACT AMENDMENT**

**WHEREAS,** COUNTY and CONSULTANT have entered into the Contract referenced above; and

**WHEREAS,** COUNTY and CONSULTANT, in consultation with the Pima County Regional Flood Control District, believe that floodplain and floodway re-mapping of the Lower Santa Cruz River would be of great benefit on this project; and

**WHEREAS,** the expected benefits include confirming assumptions that will have substantial impact on the length of the bridge to cross the Santa Cruz River, which will translate into final construction costs; and

**WHEREAS,** the COUNTY and CONSULTANT have agreed to incorporate this modeling of the Lower Santa Cruz River into this project; and

**WHEREAS,** these changes will result in an increase in the compensation to be paid on this project and an extension of the term; and

**WHEREAS,** the CONSULTANT has agreed to complete the work with no change in rates; and

**WHEREAS,** COUNTY approves of these changes.

**NOW, THEREFORE,** it is agreed as follows:

**CHANGE ARTICLE I – TERM AND EXTENSION/RENEWAL/CHANGES,** first paragraph, as follows:

FROM: This Contract shall commence on November 4, 2013, and shall terminate on November 3, 2017, unless sooner terminated or further extended pursuant to the provisions of this Contract.

TO: This Contract shall commence on November 4, 2013, and shall terminate on May 3, 2018, unless sooner terminated or further extended pursuant to the provisions of this Contract.

**CHANGE ARTICLE II – SCOPE OF SERVICES,** first paragraph, as follows:

FROM: CONSULTANT agrees to provide roadway planning and design engineering services for the COUNTY as described in **APPENDIX A: SCOPE OF SERVICES** (99 pages), an attachment to this contract.

TO: CONSULTANT agrees to provide roadway planning and design engineering services for the COUNTY as described in **APPENDIX A: SCOPE OF SERVICES** (99 pages) and **APPENDIX A-1: ADDITIONAL SCOPE OF SERVICES** (3 pages), attachments to this Contract.

ADD the attached **APPENDIX A-1: ADDITIONAL SCOPE OF SERVICES** (3 pages) to the Contract.

CHANGE all references to **APPENDIX B: CONSULTANT FEE SCHEDULE** (10 pages) in the Contract to:

**APPENDIX B: CONSULTANT FEE SCHEDULE** (10 pages) and **APPENDIX B-1: CONSULTANT FEE SCHEDULE FOR ADDITIONAL SCOPE** (2 pages).

ADD the attached **APPENDIX B-1: CONSULTANT FEE SCHEDULE FOR ADDITIONAL SCOPE** (2 pages) to the Contract.

CHANGE the first sentence of the first paragraph of **ARTICLE III – COMPENSATION AND PAYMENT**, as follows:

FROM: In consideration of the services specified in this Contract, the COUNTY agrees to pay CONSULTANT Not To Exceed Two Million Nine Hundred Ninety-two Thousand Eighty-nine Dollars (\$2,992,089.00).

TO: In consideration of the services specified in this Contract, the COUNTY agrees to pay CONSULTANT Not To Exceed Three Million Seventy-three Thousand Four Hundred Nine Dollars (\$3,073,409.00).

This Amendment shall be effective on April 15, 2014.

All other provisions of the Contract, not specifically changed by this amendment, shall remain in effect and be binding upon the parties.

IN WITNESS WHEREOF, the parties have affixed their signatures to this amendment on the dates written below.

**PIMA COUNTY:**

**CONSULTANT:**

\_\_\_\_\_  
Chair, Board of Supervisors

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Date

James W. Clark, Design Manager  
Name and Title (Please Print)

3/3/14  
Date

ATTEST:

\_\_\_\_\_  
Clerk of the Board

\_\_\_\_\_  
Date

APPROVED AS TO FORM:

\_\_\_\_\_  
Deputy County Attorney

**MARC NATELSKY**

\_\_\_\_\_  
Name (printed)

\_\_\_\_\_  
Date

*For Ital G. Ibrath*

*3/28/14*



*Structural  
Grace, Inc.*

March 17, 2014

Jason Bahe, Project Manager  
Pima County Department of Transportation  
201 N. Stone Avenue, 4<sup>th</sup> Floor  
Tucson, Arizona 85701-1207

**Subject:        *Sunset Road: Silverbell Road to River Road (Corridor)*  
                     *Project Number 4RTSUN*  
                     *Contract Amendment No. 1***

Dear Mr. Bahe:

At the request of Pima County Department of Transportation, a contract amendment proposal is being provided to include additional Engineering Services that were not anticipated nor included in the original Scope of Services.

The following work and tasks are being added through this contract amendment:

- Project Management and subconsultant oversight through the approval of a Letter of Map Revision by the Federal Emergency Management Agency. It is assumed that this oversight will need to extend 12 months past the 18 month construction duration. Work will include contract monitoring, schedule oversight and invoice processing. Hours will be billed only to the extent that the original contract hours do not cover this effort. The current contract expires on November 3, 2017. With the addition of this work and the FEMA approval process, it is proposed that the contract be extended by six months to May 3, 2018.
- Subconsultant services by PB as noted in the attached letter of March 15, 2014 to include:
  - Corrective Effective Model for Santa Cruz River including floodplain and floodway mapping
  - CLOMR Preparation
  - LOMR Preparation

As you are aware, the recent traffic analysis for Segment I and consultation with the Arizona Department of Transportation clearly indicates that a traffic signal will not be required at the intersections of Sunset Road and the East and West bound Interstate 10 frontage roads. Signal design hours for these locations by PB were included in the original scope and fee for this project, therefore, the subconsultant services CA1 proposal by PB subtracts those hours from the needed work, as described in their attached letter.

The total fee for CA1 services including services to be performed by PB and project management oversight by SGI as shown in the attached fee estimate is \$81,320. This includes all anticipated direct expenses based upon current costs and a new contract expiration date of May 3, 2018.

808 N. First Street  
Phoenix, Arizona 85004  
(602) 437-2551  
Fax (602) 437-7244

1430 E. Ft. Lowell Rd, Suite 200  
Tucson, Arizona 85719  
(520) 320-0156  
Fax (520) 320-0157

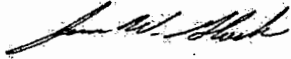
[www.structuralgrace.com](http://www.structuralgrace.com)

*Unique Approach - Unique Solution*

Sunset Road: Silverbell Road to River Road (Corridor)  
Project Number 4RTSUN  
Contract Amendment No. 1  
March 17, 2014

If you have any questions or comments, please feel free to contact me at (520) 320-0156 or via e-mail at [jglock@structuralgrace.com](mailto:jglock@structuralgrace.com).

Sincerely,



James W. Glock, PE  
Design Manager

Enclosures

cc: Rick Ellis, PCDOT

# PARSONS BRINCKERHOFF

177 N. Church Avenue,  
Suite 610  
Tucson, AZ 85701  
Main: 520-882-6424  
Fax: 520-882-8830

March 15, 2014

Mr. Jim Glock  
Project Manager  
Structural Grace, Inc.  
1430 E. Ft. Lowell Road, Ste. 200  
Tucson, Arizona 85719

**RE: Sunset Road; Silverbell Road to River (Contract Amendment #1)**

Dear Mr. Glock:

At the request of the Structural Grace, Inc. and Pima County Department of Transportation, Parsons Brinckerhoff (PB) has been asked to provide you with this scope of services and fee estimate for PB to include additional Engineering Services that were not included in the original Scope of Services. The following tasks are being added through this contract modification:

- Corrective Effective Model for Santa Cruz River including floodplain and floodway mapping.
- CLOMR Preparation
- LOMR Preparation

At your request we have removed hours and fee associated with traffic signal design at the tie-in with the I-10 frontage Roads. Specifically the following tasks were subtracted from the hours associated with the FEMA work on the Santa Cruz River:

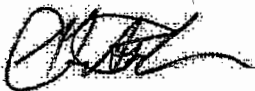
- Task 3.20.1 B Traffic Signal Plans & Estimate Sunset @ I-10 Frontage Roads
- Task 3.20.2 B Traffic Signal Plans & Estimate Sunset @ I-10 Frontage Roads
- Task 3.20.3 B Traffic Signal Plans & Estimate Sunset @ I-10 Frontage Roads
- Task 3.20.5 B Traffic Signal Plans, Special Provisions & Estimate Sunset @ I-10 Frontage Roads
- Task 3.20.6 B Traffic Signal Plans, Special Provisions & Estimate Sunset @ I-10 Frontage Roads

The total revised fee for the design services, outlined above and included in the attached fee estimate, is \$77,598. This includes an initial estimate of direct expenses for FEMA Review Public Notification, Delivery and report duplication totaling \$ 14,851.

If you have any questions, please feel free to contact us.

Very truly yours,

**PARSONS BRINCKERHOFF**



Gregory A. Bambauer, PE  
Project Manager/Lead Drainage Engineer

Encl.  
cc: File

**PIMA COUNTY  
FEE ESTIMATE SUMMARY**

PROJECT: **Sunset Road: Silverbell Road to River Road**  
 TASK(s): DCR-Silverbell to River  
 EAMR-PS&E Silverbell to I-10

CONSULTANT: Structural Grace, Inc.  
 1430 E. Ft. Lowell Road, Suite 200  
 Tucson, AZ 85719  
 (520) 320-0156

CONTRACT NO.: Sol. No. 91227

Contract Amendment NO. 1

**Direct Labor Cost**

<u>Classification</u>	<u>Estimated Hours</u>	<u>Contracted Avg DL Rate</u>	<u>Labor Cost</u>
Project Principal	-	\$60.58	\$0.00
Project Manager	15	\$57.69	\$865.35
Senior Project Engineer	-	\$58.29	\$0.00
Project Engineer	-	\$50.97	\$0.00
Project Architect	-	\$46.00	\$0.00
Project Designer	-	\$33.75	\$0.00
Drafting/CADD/Graphics	-	\$33.07	\$0.00
Clerical	15	\$26.00	\$390.00
(A) Direct Labor	30 Hrs		<b><u>\$1,255</u></b>

**OVERHEAD**

(B) OH Rate x (A) 169.60% x \$1,255 = **\$2,129**

**PROFIT**

(C) % Profit Rate x (A+B) 10.0% x \$3,384 = **\$338**

**Estimated Direct Expenses**

Travel	\$0.00
Plotting	\$0.00
Reproductions	\$0.00
Exhibits	\$0.00
Specialized Vendors	\$0.00
Reports	\$0.00
Van/Bus Rental	\$0.00

(D) Total Estimated Direct Expenses **\$0**

**Estimated Outside Services & Subconsultants**

PB \$77,598

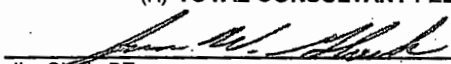
(F) Total Estimated Outside Services & Subconsultants = **\$77,598**

**Estimated Additional Services**

(G) Total Estimated Additional Services as directed by PCDOT = **\$0.00**

**Estimated Fees**

(H) **TOTAL CONSULTANT FEE** = **\$81,320**

  
 Jim Glock, PE  
 Structural Grace, Inc.

17-Mar-14  
 Date

**PIMA COUNTY  
FEE ESTIMATE SUMMARY**

PROJECT: Sunset Road: Silverbell Road to River Road      DATE: 03/14/14

PREPARED BY: Greg Bambauer      CONTRACT NO.: 11542

EFFECTIVE DATE:      CONSULTANT:

CONTRACT TIME:

**DIRECT LABOR COST**

ITEM				
No.	TASK DESCRIPTION	Net w/Removal No. HOURS Estimated Hours	HOURLY RATE Estimated Rates	TOTAL COST Estimated Cost
	<u>CLASSIFICATION</u>			
	FEMA Model Preparation & Submittal	Principal Planner/Engineer 0	\$80.09	\$0.00
		Project Manager -18	\$60.34	(\$1,086.12)
		Project Engineer/Planner 146	\$60.00	\$8,760.00
		Engineer/Designer/Planner 238	\$41.03	\$9,765.14
		Drafting/CADD/Graphics 10	\$26.36	\$263.60
		Clerical 116	\$36.38	\$4,220.08

(A) Direct Labor      492 Hrs.      **\$21,923**

**OVERHEAD**

(B) OH Rate x (A)      or      160.20%      x      \$21,923      =      **\$35,120**

**PROFIT**

(C) % Profit Rate x (A+B)      or      10.0%      x      \$57,043      =      **\$5,704**

**ESTIMATED OTHER DIRECT EXPENSES**

TRAVEL	\$0.00
PLOTTING	\$0.00
REPRODUCTIONS	\$683.00
EXHIBITS	\$0.00
SPECIALIZED VENDORS	\$9,400.00
PUBLIC NOTIFICATION	\$4,100.00
REPORTS	\$507.60
FEDEX DELIVERY FEMA	\$180.00

(D) Estimated Other Direct Expenses      =      **\$14,851**

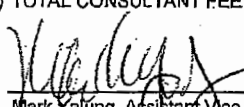
**(E) ESTIMATED OUTSIDE SERVICES & SUBCONSULTANT COSTS**

Sub Names	Sub Fees
University of Arizona, Civil Engineering & Engineering Mechanics	
Alternative 1, 1-Dimensional Analysis, See Scope	\$0

(F) TOTAL COST FOR ALL SUBCONSULTANT AND OUTSIDE SERVICES      =      **\$0**

**ESTIMATED FEES**

(G) TOTAL CONSULTANT FEE      =      **\$77,598**

  
Mark Yalung, Assistant Vice President  
Parsons Brinckerhoff Inc.