

**SUBMITTAL TO THE BOARD OF SUPERVISORS
COUNTY OF RIVERSIDE, STATE OF CALIFORNIA**

617A



FROM: TLMA - Transportation Department

SUBMITTAL DATE:
December 28, 2011

SUBJECT: Amendment No.3 to the Engineering Services Agreement for the Van Buren Bridge replacement.

RECOMMENDED MOTION: That the Board of Supervisors:

1. Approve the Amendment No.3 to the Engineering Services Agreement between the County of Riverside and Dokken Engineering, and;
2. Authorize the Chairman of the Board to execute the same.

BACKGROUND: On April 10, 2001, the Board of Supervisors executed an agreement with Dokken Engineering to provide environmental and design engineering services to replace the existing parallel bridges over Santa Ana River. The new bridges are designed to meet the

Juan C. Perez
Director of Transportation

Departmental Concurrence

FORM APPROVED COUNTY COUNSEL

BY: *Marshall Victor*
MARSHAL VICTOR DATE: 1/18/12

FINANCIAL DATA	Current F.Y. Total Cost:	\$133,400	In Current Year Budget:	Yes
	Current F.Y. Net County Cost:	\$ 0	Budget Adjustment:	No
	Annual Net County Cost:	\$ 0	For Fiscal Year:	2011/2012
SOURCE OF FUNDS: Federal HBP (Seismic Safety Retrofit) (85.46%), Prop. 1B (Local Bridge seismic Retrofit Account) (7.33%), Measure A Western (7.21%).				Positions To Be Deleted Per A-30 <input type="checkbox"/>
				Requires 4/5 Vote <input type="checkbox"/>

C.E.O. RECOMMENDATION:

APPROVE

BY: *Tina Grande*
Tina Grande

County Executive Office Signature

Policy
 Policy
 Consent
 Consent
 Dep't Recomm.:
 Per Exec. Ofc.:

MINUTES OF THE BOARD OF SUPERVISORS

On motion of Supervisor Stone, seconded by Supervisor Benoit and duly carried by unanimous vote, IT WAS ORDERED that the above matter is approved as recommended.

Ayes: Buster, Tavaglione, Stone, Benoit and Ashley
 Nays: None
 Absent: None
 Date: January 31, 2012
 xc: Transp.

Kecia Harper-Ihem
 Clerk of the Board
 By: *Kecia Harper-Ihem*
 Deputy

Prev. Agn. Ref. May 18, 2010, 3.69 | **District:** 2/z | **Agenda Number:**
 Sept. 2, 2008, 3.155
 April 10, 2001, 3.31

3.21

ATTACHMENTS FILED
WITH THE CLERK OF THE BOARD

The Honorable Board of Supervisors

RE: Amendment No.3 to the Engineering Services Agreement for the Van Buren Bridge replacement.

December 28, 2011

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current seismic design criteria. The bridges are being constructed wide enough to accommodate three lanes in each direction in the future, a barrier protected sidewalk for pedestrians, and eight feet wide shoulders to accommodate bicycles.

The engineering services agreement with the design consultant was amended first on September 2, 2008 to address the scope changes due to the continuously evolving regulatory process for an approved environmental document, to perform a Value Engineering Analysis, and to add the design surveys, right of way engineering, and pot holing into the Consultant's scope of work to augment the limited in-house staff availability at the time. A second amendment was processed on May 18, 2010 to modify construction staging, utility, landscaping, and construction area access plans due to the changes to the City of Riverside improvement projects at the intersection of Jurupa Avenue and Van Buren Boulevard. A retaining wall was added to eliminate right of way impacts on the City's Water Quality Treatment Plant and the design Consultant's construction support budget was increased.

There are multiple County projects under development and construction at or near the north end of the bridge project. Amendment 3 is necessary to:

- Increase the drainage system capacity at the north end to capture the excess flow from the Clay Street Watershed identified during the development of the Clay Street Grade Separation Project. This will benefit the Clay Street grade separation project and reduce costs overall by not requiring facilities being built with the Van Buren Bridge to have to be up-sized with the Clay Street project.
- Address the impacts of the recently completed Animal Shelter facilities on the bridge project's bioswale system, the landscaping and irrigation plans, and the ultimate street improvements fronting the shelter parking lot.
- Further increase the level of construction support to the County's resident engineer. The Transportation Department is performing the construction management and inspection services utilizing the in-house staff. Based on the level of design support that was required during the Stage 1 construction, which involved the construction of the new southbound bridge and its approach roads, it became apparent that the County Construction Management Staff will require more design support than initially estimated to complete the construction of the Van Buren bridges.

Consultant's negotiated cost proposal to address these scope changes and for modifying the construction documents is \$116,400. The detailed scope and negotiated fee proposal are provided in Attachment A of this Amendment No.3. With Board approval, the Director of Transportation will have authority to augment this amount up to \$17,000 for potential changes or additional work.

The Honorable Board of Supervisors
RE: Amendment No.3 to the Engineering Services Agreement for the Van Buren Bridge
replacement.
December 28, 2011
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Recommended Contract Budget

Original Contract Amount:	\$1,181,503.39
Amendment 1:	\$ 434,330.04
Amendment 2:	\$ 166,410.00
Recommended Amendment 3:	<u>\$ 133,400.00</u>
Total Contract Amount:	\$1,915,643.43

AMENDMENT 3

Contract No. 01-03-016A3
Riverside Co. Transportation

AMENDMENT TO AGREEMENT BETWEEN

THE COUNTY OF RIVERSIDE AND DOKKEN ENGINEERING

FOR ENGINEERING SERVICES ON VAN BUREN BRIDGE REPLACEMENT PROJECT

THIS AMENDMENT (hereinafter the "Amendment") to an agreement is made and entered into as of this 31st day of January 2012 by and between the County of Riverside, a political subdivision of the State of California (hereinafter the "COUNTY"), and DOKKEN ENGINEERING (hereinafter "ENGINEER").

RECITALS

A. COUNTY and ENGINEER have entered in an agreement entitled "Engineering Services Agreement for Van Buren Bridge Replacement between County of Riverside • Transportation Department and Dokken Engineering" that is dated April 10, 2001 (hereinafter the "Agreement"). The Agreement provides the terms and conditions, scope of work, schedule and budget for the performance of professional and technical services necessary to prepare an environmental document, plans, specifications and estimates to replace the existing bridges on Van Buren Boulevard at Santa Ana River. The COUNTY and the ENGINEER amended the original agreement on September 2, 2008, Amendment 1, to modify the scope of work and to increase the budget for Phases I and II. The COUNTY and the ENGINEER amended the agreement as amended on September 2, 2008 on May 18, 2010 again, Amendment 2, to modify the scope of work and to increase the budget for Phases II and IV.

B. The parties desire to amend the Agreement as amended last on May 18, 2010 to modify the scope of services to be provided by the ENGINEER and increase the contract budget.

AGREEMENT

NOW, THEREFORE, in consideration of the mutual covenants hereinafter contained, the parties agree as follows:

1. Article VI COMPENSATION, subparagraph B of the Agreement as amended last on May 18, 2010 is modified to reflect that the current contract budget of \$1,782,243.43 shall be increased by \$133,400.00 to \$1,915,643.43 as provided below:

- Increase the Phase IV budget by the amount of \$116,400.00 for the Construction Support. The scope and budget modifications became necessary to address the coordination needs and the revisions to construction documents required to mitigate the impacts of the ongoing and recently proposed projects adjacent to Clay Street Intersection, to address the need for full-time on-site geotechnical monitoring of

1 the large size Cast-in-Drilled Hole (CIDH) pile construction during the Stage 2 construction of the project,
2 and to address the increased effort in design support during construction. Detailed descriptions of the
3 extra work and the budget adjustments are provided in Attachment "A" of this Amendment, consisting of
4 twelve (12) pages, attached hereto and incorporated by this reference.

- 5 • The Director of Transportation is authorized by the Board of Supervisors to augment the new amount of
6 \$1,898,643.43 up to a total of \$17,000 for potential changes or additional work for a not to exceed
7 contract value of \$1,915,643.43.

8 2. Appendix A is modified to include the additional scope of work as outlined in Attachment "A" to this
9 Amendment.

10 3. The existing Engineering Services Agreement as amended last on May 18, 2010 expires on October 28,
11 2012. Appendix B introductory paragraph is modified to reflect that the Agreement term shall be extended by
12 six months. All covenants set forth in the Agreement and as modified in this Amendment shall be completed
13 by April 30, 2013.

14 4. Appendix C is modified as set forth in the summaries of the requested and the recommended budget
15 adjustments as provided in Attachment "A" to this Amendment.


16 5. Except to the extent specifically modified or amended hereunder, all of the terms, covenants and conditions of
17 the Agreement as amended last on May 18, 2010 shall remain in full force and effect between the parties
18 hereto.

19 IN WITNESS HEREOF, the parties hereto have caused this Amendment to the Agreement to be duly executed
20 this day and year first written above.

ARTICLE VIII • APPROVALS

COUNTY Approvals

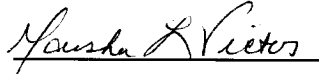
RECOMMENDED FOR APPROVAL:


Dated: 12/19/11
JUAN C. PEREZ

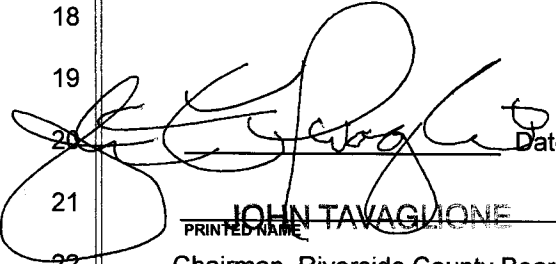
Director of Transportation

APPROVED AS TO FORM:

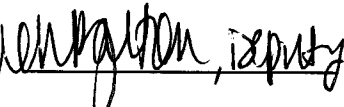
PAMELA J. WALLS, COUNTY COUNSEL


Dated: 1/18/12
By Deputy

APPROVAL BY THE BOARD OF SUPERVISORS


Dated: JAN 31 2012
JOHN TAVAGNONE
Chairman, Riverside County Board of Supervisors

ATTEST:


Dated: JAN 31 2012
KECIA HARPER-IHEM
Clerk of the Board

ENGINEER Approvals

ENGINEER:

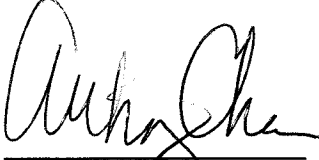

Dated: 11/16/11

Richard T. Liptak
PRINTED NAME

President

TITLE

ENGINEER:


Dated: 11/16/11

Cathy Qhan
PRINTED NAME

Corporate Secretary

TITLE

ATTACHMENT A

AMENDMENT 3

SCOPE OF SERVICES AND FEE

**VAN BUREN BRIDGES AT SANTA ANA RIVER
BRIDGE REPLACEMENT PROJECT**



December 13, 2010

Mr. Tayfun Saglam, P.E.
Project Manager
Riverside County Transportation Department
14th Street Transportation Annex
3525 14th Street
Riverside, CA 92501

**RE: Van Buren Bridge Replacement
Contract Amendment No.3 - Request 1**

Dear Mr. Saglam:

As requested, Dokken Engineering has prepared the following scope and fee to prepare products that are outside of our contractual scope. In particular:

- *Modification of Drainage System No. 5* – Revisions to the plans and estimates will include; performing site investigation, preparing a drainage plan and profile sheet for the replacement of the existing 30" line with a new 42" line from the existing inlet on Clay Street near the intersection with Van Buren Blvd. to the location where it ties into current contract plans. A new inlet will be added to the 42" line to collect runoff. These changes were required because the existing Clay Street watershed area contributes to a larger flow than the existing 30" pipe can accommodate.

<i>Modification of Drainage System No. 5</i>		
<i>Function</i>	<i>Hours</i>	<i>Cost</i>
<i>Roadway Project Engineer</i>	3	\$433.74
<i>Associate Engineer (RN)</i>	9	\$939.02
<i>Assistant Engineer (VV)</i>	46	\$3,702.40
<i>Totals</i>	58	\$5,075.16

Requested Supplement: \$5,000

- *Modification of Bioswale System* – The initially designed bioswale system will need to be revised to treat runoff from Van Buren Blvd since the Animal Shelter project has constructed improvements which encroach the proposed bridge project bioswale limits. These revisions will include modifications to the details included on the Animal Shelter Improvement plans and to the hydraulic calculations to ensure the design flow can pass beneath the Animal Shelter access road without flooding the surrounding area. Revisions to the estimates will also be prepared.



<i>Modification of Bioswale System</i>		
<i>Function</i>	<i>Hours</i>	<i>Cost</i>
<i>Associate Engineer (RN)</i>	8	\$834.68
<i>Assistant Engineer (VV)</i>	14	\$1,126.82
<i>Totals</i>	22	\$1,961.50

Requested Supplement: \$2,000

- *Review of Animal Shelter Plans prepared by County* – The County requested that Dokken Engineering perform a cursory review of the Ultimate Improvements proposed in the Animal Shelter Plans prepared by Trans-Pacific (County Consultant), and provide comments regarding possible conflicts with the Van Buren Blvd Bridge Replacement contract plans. Also, provide estimates for conflicts associated with construction and recommendations for field changes.

<i>Review of Animal Shelter Plans prepared by County</i>		
<i>Function</i>	<i>Hours</i>	<i>Cost</i>
<i>Associate Engineer (RN)</i>	8	\$834.68
<i>Assistant Engineer (VV)</i>	14	\$1,126.82
<i>Totals</i>	22	\$1,961.50

Requested Supplement: \$2,000

- *Revision of Van Buren Blvd Bridge Replacement Landscape and Irrigation Plans* – Comments to the Landscape and Irrigation contracts plans were made by County staff as a result of the recently constructed Animal Shelter project adjacent to the project. Revisions to the contract landscaping and irrigation plans will be performed to incorporate County comments including as revisions to the specifications and estimates.

<i>Revision of Van Buren Blvd Bridge Replacement Landscape and Irrigation Plans</i>		
<i>Function</i>	<i>Hours</i>	<i>Cost</i>
<i>Tatsumi Partners</i>	<i>N/A (Lump Sum)</i>	<i>\$13,400.00</i>
<i>Totals</i>		<i>\$13,400.00</i>

Requested Supplement: \$13,400

“Additional Design Support Services During Construction” per comments by Tayfun:

- *Additional Design Support Services During Construction* – Based on the level of design support effort that was required during the Stage 1 construction, which involved construction of the new NB Bridge and its approach roads, it is expected that the County Construction Management staff will require more design support from Dokken



DOKKEN ENGINEERING

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Engineering than anticipated during the construction of Stage 2. Although, Dokken Engineering foresees that the effort for the remainder of the project construction will be less than has been up to date, we anticipate the remaining budget of \$15,347 will not be sufficient to cover the above expenses. The out-of-scope work to perform the above tasks by Dokken Engineering is listed below:

Task	Function	Hours	Cost
<i>Concrete Mix (completed in Stage 1)</i>	<i>Senior Engineer (MM)</i>	4	\$536.58
<i>Shoring for Revised Abutments (completed in Stage 1)</i>	<i>Senior Engineer (MM)</i>	10	\$1,341.45
<i>Rock Slope Protection & Horse Trail Realignment - due to differing site condition (Stage 2)</i>	<i>Senior Engineer (MM)</i>	10	\$1,341.45
<i>CIDH Pile Construction Plan (Stage 2)</i>	<i>Senior Engineer (MM)</i>	10	\$1,341.45
<i>Tensor Temporary Walls Review (completed in Stage 1)</i>	<i>Senior Engineer (MM)</i>	14	\$1,878.03
<i>Falsework Review (Stage 2)</i>	<i>Senior Engineer (MM)</i>	68	\$9,121.86
<i>Bridge Removal – Method, Equipment & Sequence Review (Stage 1 & 2)</i>	<i>Senior Engineer (MM)</i>	20	\$2,682.90
<i>Jurupa Community Services District Plan Revision for Sewer Force Main Extension (Stage 1 & 2)</i>	<i>Senior Engineer (MM)</i>	26	\$3,487.77
	<i>Bridge Detailer (KD)</i>	26	\$3,100.24
<i>Utility Changes – Charter Cable shift (Stage 1 & 2)</i>	<i>Senior Engineer (MM)</i>	22	\$2,951.19
<i>Abutment 7 Foundation & Detail Modification – differing site condition (Stage 1)</i>	<i>Senior Engineer (MM)</i>	20	\$2,682.90
	<i>Bridge Detailer (KD)</i>	10	\$1,192.40
<i>Quantity Revisions - due to differing site condition (Stage 1 & 2)</i>	<i>Senior Engineer (MM)</i>	8	\$1,073.16
	<i>Assistant Engineer (VV)</i>	16	\$1,287.79
<i>Plan Revisions - due to differing site condition (Stage 1 & 2)</i>	<i>Bridge Detailer (KD)</i>	24	\$2,861.76
	<i>Senior Engineer (MM)</i>	10	\$1,341.45
<i>Review Contractor Requested Design Modifications and Extra Submittal Reviews (Stage 1)</i>	<i>Roadway Project Engineer</i>	16	\$2,313.26
	<i>Senior Engineer (MM)</i>	18	\$2,414.61
	<i>Assistant Engineer (VV)</i>	38	\$3,058.51
Totals		370	\$46,008.76

TOTAL REQUESTED SUPPLEMENT: \$68,400



DOKKEN ENGINEERING

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I have attached a detailed breakdown of this supplement request in the attached spreadsheet (based on the County's standard template). Please call me if you have any questions.

Sincerely,

DOKKEN ENGINEERING

Juann Ramos, P.E.

Project Manager

1215-52/jr

Addendum Cost Breakdown

Request 1

	PHASE I	PHASE II	PHASE III	PHASE IV	PHASE V	TOTALS
Dokken Engineering				\$68,406.90		\$68,406.90
LSA Associates						
Psomas						
TOTALS				\$68,406.90		\$68,406.90

- Phase I:** Preliminary Engineering
- Phase II:** Final Design
- Phase III:** Construction Bidding Support
- Phase IV:** Construction Support
- Phase V:**

COMPANY: Dokken Engineering	SCOPE OF WORK Construction Support	DATE: 11/15/2011	REV:
PROJECT: Van Buren Bridge Replacement - Addendum No. 3, Request 1		MILESTONE/PHASE/PROJECT SUMMARY: Phase IV	

DIRECT LABOR					
PERSONNEL	FUNCTION	HOURS		RATE	AMOUNT
Rick Liptak	Principal / Project Manager			\$65.00	
Juann Ramos	Roadway Project Engineer	19	@	\$48.50	\$921.50
Matt Salvesson	Bridge Project Engineer			\$54.00	
David Vandershaf	Senior Engineer (DV)			\$48.00	
Martin Maechler	Senior Engineer (MM)	240	@	\$45.00	\$10,800.00
John Bishop	Senior Engineer (JB)			\$58.00	
Ryan Neves	Associate Engineer (RN)	25	@	\$35.00	\$875.00
Nathan Donnelly	Associate Engineer (ND)			\$36.50	
Brian Stephenson	Associate Engineer (BS)			\$39.00	
Juan Rodriguez	Assistant Engineer (JR)			\$26.25	
Valerie Villa	Assistant Engineer (VV)	128	@	\$27.00	\$3,456.00
Claudia Fletcher	Roadway Detailer (CF)			\$36.50	
Craig Houghton	Bridge Detailer (CH)			\$43.00	
Khanh Dang	Bridge Detailer (KD)	60	@	\$40.00	\$2,400.00
Rob Lawrence	Senior Engineer (RL)			\$42.00	
Michael Wilson	Geologist (MW)			\$41.00	
TOTAL HOURS		472		TOTAL DIRECT LABOR	\$18,452.50

MULTIPLIERS		
ESCALATION @	(Rate)	
OVERHEAD @	171.00% (of Total Direct Labor + Escalation)	\$31,553.78
PAYROLL ADDITIVES @	(of Total Direct Labor + Escalation)	
TOTAL MULTIPLIERS		\$31,553.78

OTHER DIRECT EXPENSES *** Billed at Actual Cost ***					
ITEM	QUANTITY	UNIT		UNIT COST	AMOUNT
Tatsumi Partners	1	LS	@	\$13,400.00	\$13,400.00
TOTAL OTHER DIRECT EXPENSES					\$13,400.00

OUTSIDE SERVICES (w/o fee)					
COMPANY	LABOR	MULTIPLIER	EXPENSES	TOTAL	
LSA Associates					
Psomas					
TOTAL OUTSIDE SERVICES					

FEES		
OUTSIDE SERVICES ADMIN FEE @	(of Total Outside Services & Outside Services Fees)	
DOKKEN ENGINEERING @	10.00% (of Total Direct Labor + Total Multipliers)	\$5,000.63
OUTSIDE SERVICES @	10.00% (of Total Labor + Total Multiplier for Outside Services)	
TOTAL FEES		\$5,000.63
TOTAL COST		\$68,406.90



DOKKEN ENGINEERING

Transportation Solutions from Concept to Construction

August 23, 2011

Mr. Tayfun Saglam, PE
Project Manager
Riverside County Transportation Department
14th Street Transportation Annex
3525 14th Street
Riverside, CA 92501

**RE: Van Buren Bridge Replacement
Contract Amendment No.3 - Request 2**

Dear Mr. Saglam:

As indicated in your email dated August 18, 2011, the County of Riverside has requested Group Delta Consultants to perform field observations during Stage 2 large CIDH pile construction for the Van Buren Boulevard Bridge Replacement project. This amendment request adds this scope of work to the project.

Group Delta Consultants will provide construction observation for the remaining eight piles which are to be constructed as part of the northbound bridge. They will prepare and submit to the Resident Engineer daily reports of the construction activities and provide written documentation of the pile excavations as they are advanced.

The total cost to perform this work includes:

Associate Engineer	24 hrs	@ \$160/hour	\$3,840
Staff Engineer	384 hrs	@ \$115/hour	<u>\$44,160</u>
Total Addendum Request			\$48,000

The total cost assumes standard eight-hour work days and assumes that it takes on average 48 hours (six days) to construct a pile (based on previous and current pile construction records). All additional work will be billed at time and materials basis.

Please call me if you have any questions.

Sincerely,

DOKKEN ENGINEERING

Juann Ramos, P.E.
Project Manager

1215-52/JR

Addendum Cost Breakdown

Request 2

	PHASE I	PHASE II	PHASE III	PHASE IV	PHASE V	TOTALS
Dokken Engineering				\$48,000.00		\$48,000.00
TOTALS				\$48,000.00		\$48,000.00

Phase I: Preliminary Engineering
Phase II: Final Design
Phase III: Construction Bidding Support
Phase IV: Construction Support
Phase V:

