

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

920



FROM: TLMA - Transportation Department

SUBMITTAL DATE:
October 13, 2011

SUBJECT: Contract Change Order No. 6 - between the County of Riverside and Griffith Company for the replacement of Van Buren Boulevard Bridge over Santa Ana River, Riverside Area

RECOMMENDED MOTION: That the Board execute and authorize the Transportation Department to issue Contract Change Order No. 6 with Griffith Comany.

BACKGROUND: On May 19, 2009 (agenda item 3.38) the Board entered into an agreement with Griffith Company of Santa Ana, CA for the bridge replacement and the approach roadway improvements on Van Buren Boulevard at the Santa Ana River. The bridge replacement project

Juan C. Perez
Director of Transportation

dj
(Continued On Attached Page)

FINANCIAL DATA	Current F.Y. Total Cost:	\$ 237,367	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: Seismic Safety Retrofit [Federal] (67.9%), Proposition 111 [Gas Tax] (0.5%), Proposition 1B - Seismic Bridge Funds (8.0%), Seismic Safety Retrofit [State] (0.6%), Measure A / Western (6.6%), TUMF Regional System [RCTC] (12.2%), Jurupa Community Services District (4.2%) There are no general funds used in this project				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

County Executive Office Signature

Dept's Recomm.: Consent Policy
Per Exec. Ofc.: Consent Policy

Prev. Agn. Ref. 3.38 of 5/19/09 | **District:** 2 | **Agenda Number:**

ATTACHMENTS FILED
WITH THE CLERK OF THE BOARD

3.16

The Honorable Board of Supervisors

RE: Contract Change Order No. 6 - between the County of Riverside and Griffith Company for the replacement of Van Buren Boulevard Bridge over Santa Ana River, Riverside Area

October 13, 2011

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called for the new bridges to be constructed on Cast-In-Drilled-Hole (CIDH) piles. These piles are steel reinforced concrete placed in ten foot diameter shafts (holes) drilled into the river bottom and bedrock below the sand and rock alluvium.

The amount of this change order (\$237,367) is 1.04% of the original contract amount of \$22,875,573. The accumulation of all Contract Change Orders thus far, including this one, is \$517,768.

JUSTIFICATION:

Prior to installing the Cast-In-Drilled-Hole piles, exploratory borings were conducted at each pile location to ascertain the proposed depth and length of each pile prior to drilling the pile to enable the fabrication of the reinforcing steel for the pile.

The lengths of the Cast-In-Drilled-Hole piles as determined by the exploratory borings needed to be adjusted to the actual elevations of the bedrock as found when the full diameter borings were drilled. The uneven surfacing of the weathered bedrock encountered during the drilling for the CIDHs necessitated additional depth in order to successfully seat a steel pipe casing and create a seal around the shaft to prevent water entry, dirt cave-ins and to reach solid bedrock elevations for a sound foundation pile.

During the seating operation, if a situation is encountered that is materially different than what is indicated in exploratory borings, then the process to successfully seat the steel casing into the actual solid bedrock versus the pre-determined bedrock elevation (by the exploratory borings) shall be paid in accordance with Section 9-1.03, Force Account, of the State Standard Specifications. For the first phase of the bridge project, the construction of the southbound half of the bridge, four piles required extra work to seal the casing pipe.

Project No.: B0-0801

LETTER OF TRANSMITTAL

**Local Agency: County of Riverside
Transportation Department**

**DATE: August 10, 2011
File: Van Buren Bridge Project
W.O. No.:B0-0801
C.C.O.: 6**

TO: Juan C. Perez

From: Hugh Smith

\$237,366.90 (1.04% of the original contract amount of \$22,875,573.00)

This CCO 6 became necessary because the lengths of the Cast In-place Drilled Hole (CIDH) piles as determined by the exploratory borings needed to be adjusted to the actual elevations of the bedrock as found when the full diameter borings were drilled. The uneven surfacing of the weathered bedrock encountered during the drilling for the CIDHs required additional depth in order to seat the steel casing and create a seal around the shaft to prevent water entry, dirt cave-ins and to reach solid bedrock elevations.

Additionally, the exploratory borings (8" diameter) for Piles 4A and 5A indicated the top of bedrock at higher elevations than what was encountered at the time of full diameter drilling (102") because of bedrock weathered surfacing and/or large boulders (thought to be bedrock by the exploratory borings) relative to the precise elevations of solid bedrock.

The contractor has filed a Notice of Potential Claim in excess of one million one hundred thousand dollars (\$1,100,000.00) for this extra work. A resolution with the Contractor for the claim is still pending, and this contract change order is to compensate the contractor for work as determined by the extra work reports. The amounts associated with the various piles are as shown on the change order.

The amount of this Change Order is \$237,366.90 and the accumulation of all Contract Change Orders thus far, including this one, is \$517,768.05.

Previous Contract Change Order Amounts Approved:

See C.C.O. History
(attached)

\$280,401.15

This Contract Change Order was discussed with Mr. Tayfun Saglam and he gave his concurrence to this change.

Adjustment of Time: 0 Days

ESTIMATE OF COST

Items
Force Account
Agreed Price
Adjustment \$237,366.90

TOTAL **\$237,366.90**



Hugh Smith
Engineering Division Manager

C. C. O. Category

Agency Mandated	
Anticipated Force Account	
Change in Field Conditions	√
Design Omission	
ROW Obligations	
Upgrades / Benefits	
Utilities	



COUNTY OF RIVERSIDE
TRANSPORTATION DEPARTMENT

SHEET 1 OF 1 SHEETS

Contract Change Order No. 6 - REVISED

CONTRACT: **Van Buren Bridge Project**

WORK ORDER NO. **B0-0801**

TO: **Griffith Company** CONTRACTOR: YOU ARE HEREBY DIRECTED TO MAKE THE HEREIN DESCRIBED CHANGES FROM THE PLANS AND SPECIFICATIONS OR DO THE FOLLOWING DESCRIBED WORK NOT INCLUDED IN THE PLANS AND SPECIFICATIONS ON THIS CONTRACT.

Description of work to be done, estimate of quantities and prices to be paid. Segregated between additional work at contract price, agreed price and force account. Unless otherwise stated, rates for rental of equipment cover only such time as equipment is actually used and no allowance will be made for idle time.

Estimate of Extra Work at Force Account:

As directed by the Engineer and in accordance with the applicable sections of the Special Provisions compensate the Contractor for supplementary drilling and other associated incidentals for the Cast In-place Drilled Hole (CIDH) piles of the Southbound Van Buren Bridge. The lengths of the CIDH piles were adjusted to the actual elevations of the bedrock vs. the elevations specified in the exploratory borings and additional depth was required to seat the steel casing to create a seal and prevent the shaft from cave-in.

The Engineer's estimate of additional cost to perform the work is as follows:

Pile Location	Exploratory Boring Depth (Ft)	CIDH Actual Depth (Ft)	Est. of Extra Work (\$)	Est. of Stand By Time (\$)	Total (\$)
3B (West)	42.3	46.6	10,264.96		10,264.96
4B West	25.9	29.67	21,638.32	5,717.04	27,355.36
4A (East)	24.2	35.5	68,269.51	13,848.72	82,118.23
5A (East)	23.0	33.2	87,389.12	16,657.89	104,047.01
Misc. Repairs			2,278.15		2,278.15
Sub Total			189,840.06	36,223.65	226,063.71
5% Mark-up					11,303.19
Total					237,366.90

Force Account Payment will be in accordance with Section 9-1.03 of the State Standard Specifications.

Estimate of Extra Work at Force Account: \$237,366.90

Estimated Cost: Decrease \$ _____ Increase \$ **\$237,366.90**

WE, the undersigned contractor, have given careful consideration to the change proposed and hereby agree that we will provide all equipment, furnish all materials, except as may otherwise be noted above, and perform all services necessary for the work above specified, and will accept as full payment therefor the prices shown above.

By reason of this proposed change 0 days adjustment of time will be allowed.

Accepted _____

Griffith Company

Date

NOTE: This change order is not effective until approved by County. If the Contractor does not sign acceptance of this order, his attention is directed to the requirements of the specifications as to proceeding with the ordered work and filing a written protest with the time therein specified.


Approval Recommended 8/10/11
Date

Recommend

Approved

Juan C. Perez, Director of Transportation Date

Approved

Chairman, Riverside County Board of Supervisors Date

Van Buren Bridge and Street Improvements
Contract CCO History

Contract No. 09-04-011
 Work Order No. B0-0801
 Contract Amount \$22,875,573.70

Single Maximum CCO \$150,000.00
 Maximum CCO's \$2,287,557.37
 Tip Budget \$40,627,000.00

Tip Comments:
No Change

CCO No.	Amount This CCO	Authority	Cumulative CCO's	% Original Authorized	Cumulative CCO %	Classification
1	\$50,000.00	Trans. Director	\$50,000.00	0.22%	0.22%	Extra/Unavoidable
2	\$49,957.00	Trans. Director	\$99,957.00	0.22%	0.44%	Extra/Unavoidable
3	\$35,000.00	Trans. Director	\$134,957.00	0.15%	0.59%	Extra/Unavoidable
3S1	\$40,000.00	Trans. Director	\$174,957.00	0.17%	0.76%	Extra/Unavoidable
5	\$50,590.94	Trans. Director	\$225,547.94	0.22%	0.99%	Extra/Unavoidable
4	\$54,853.21	Trans. Director	\$280,401.15	0.24%	1.23%	Extra/Unavoidable
6	\$237,366.90	Board Approval	\$517,768.05	1.04%	2.26%	Extra/Unavoidable
7	<u>\$86,856.00</u>	Trans. Director	\$604,624.05	<u>0.38%</u>	2.64%	Extra/Unavoidable
	\$604,624.05			2.64%		

New Authorized Contract Total	\$23,480,197.75
Total CCO Dollars To Date	\$604,624.05
Total % Increased by CCO's	2.64%