



COUNTY OF HUMBOLDT

AGENDA ITEM NO.

C-14

For the meeting of: March 22, 2015

Date: March 4, 2016

To: Board of Supervisors

From: Thomas K. Mattson, Public Works Director

Subject: SALT RIVER BRIDGE REPLACEMENT ON WADDINGTON ROAD (C3G025) AT PM 1.69; PROJECT NO.: BRLOZB-5904(094); CONTRACT NO.: 594011

RECOMMENDATION(S):

That the Board of Supervisors:

- 1. Authorizes the Director of Public Works to sign Contract Change Order Number 2 for the amount of \$37,136.70; and
2. Directs the Auditor-Controller to transfer \$26,169.00 to 1200321-0316 per the attached appropriation transfer.

SOURCE OF FUNDING:

Road Fund - Federal Highway Administration (FHWA) Bridge Replacement Funds

Prepared by Angi Sorensen

CAO Approval [Signature]

REVIEW: Auditor [Signature] County Counsel Human Resources Other

TYPE OF ITEM: [X] Consent Departmental Public Hearing Other

BOARD OF SUPERVISORS, COUNTY OF HUMBOLDT Upon motion of Supervisor Fennell Seconded by Supervisor Bass Ayes Sundberg, Fennell, Lovelace, Bohn, Bass Nays Absent

PREVIOUS ACTION/REFERRAL:

Board Order No. C-18

Meeting of: June 9, 2015

and carried by those members present, the Board hereby approves the recommended action contained in this Board report.

Dated: March 22, 2016 By: [Signature] Kathy Hayes, Clerk of the Board

DISCUSSION:

On April 14, 2015, the Board of Supervisors authorized the Clerk of the Board to advertise the above-referenced project for bids. On June 9, 2015, the Board of Supervisors awarded the contract to RAO Construction, Inc., the lowest responsible bidder, for a total amount of \$862,272.00.

It was discovered during construction that the planned quantity for embankment was insufficient to complete the project as planned. An additional 812.83 cubic yards of material was imported to construct final grade. The contractor is being compensated for work required but not included in the contract in accordance with Section 19-2.03C, "Deficiency Material," of the Standard Specifications. Contract Change Order Number 2 compensates the contractor for furnishing 812.83 cubic yards of material at a total cost of \$37,136.70.

FINANCIAL IMPACT:

This project is being funded through Federal Highway Administration. The project is 100 percent federally funded using toll credits in lieu of non-federal match. Construction costs were included in the FY 2015-16 Road Fund Budget. However, this Contract Change Order results in a contract amount that exceeds the amount budgeted. The attached Appropriation Transfer provides funding for these additional costs.

This project conforms to the Board of Supervisors' Core Role of providing for and maintaining infrastructure as identified in the Board's Strategic Framework.

OTHER AGENCY INVOLVEMENT:

California Department of Transportation (Caltrans)
Federal Highway Administration (FHWA)

ALTERNATIVES TO STAFF RECOMMENDATIONS:

Not approve the contract change order; however, this action is not recommended because this documentation is required for proper completion of the project.

ATTACHMENTS:

Contract Change Order Number 2
Appropriation Transfer

CONTRACT CHANGE ORDER NUMBER	2	SUPPL. NO.	
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DATE PREPARED BY RESIDENT ENGINEER: March 4, 2016

PROJECT NAME: SALT RIVER BRIDGE REPLACEMENT ON WADDINGTON ROAD (C3G025) PM 1.69

PROJECT NO. BRLOZB-5904(094) CONTRACT NO. 594011

TO: RAO CONSTRUCTION, INC.

YOU ARE HEREBY DIRECTED TO MAKE THE HEREIN DESCRIBED CHANGES FROM THE PLANS AND SPECIFICATIONS OR TO DO THE FOLLOWING DESCRIBED WORK NOT INCLUDED IN THE PLANS AND SPECIFICATIONS FOR THIS CONTRACT. **NOTE THIS CHANGE ORDER IS NOT EFFECTIVE UNTIL APPROVED BY THE DIRECTOR OF PUBLIC WORKS.**

DESCRIPTION OF WORK TO BE DONE, ESTIMATE OF QUANTITIES, AND PRICES PAID. (SEGREGATE 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. THE LAST PERCENTAGE SHOWN IS THE NET ACCUMULATED INCREASE OR DECREASE FROM THE ORIGINAL QUANTITY IN THE ENGINEER'S ESTIMATE.

Compensate Contractor for placing 812.83 CY of additional imported borrow, in accordance with Section 19-2.03C, "Deficiency Material," of the Standard Specifications, to construct embankments.

ADJUSTMENT IN COMPENSATION AT AGREED LUMP SUM

Contractor agrees to accept the lump sum of \$17,140.03, as full compensation for furnishing 812.83 CY of imported borrow, per attached *Analysis of Costs for Deficiency Material*.

Adjustment of Compensation – Increase: \$ 17,140.03

Contractor agrees to accept the lump sum of \$3,740.00, as full compensation for hauling 812.83 CY of imported borrow to the project location, per attached *Analysis of Costs for Deficiency Material*.

Adjustment of Compensation – Increase: \$ 3,740.00

INCREASE IN CONTRACT ITEM AT CONTRACT PRICE

ITEM NO. 16 EMBANKMENT						
	812.83 CY	26.4%	@	\$ 20.00 / CY	=	\$ 16,256.67

See attached *Analysis of Costs for Deficiency Material* for quantity calculation.

No adjustment to contract unit price of Item 16: Embankment will be made in accordance with Section 9-1.06B, "Increases of More Than 25 Percent," of the Standard Specifications.

These changes did not affect the controlling activity; therefore, no time adjustment is granted.

TOTAL TO DATE: INCREASE \$ 37,136.70

BY REASON OF THIS CHANGE, THE CONTRACT TIME WILL BE INCREASED BY 0 WORKING DAYS

SUBMITTED BY:

SIGNATURE 	PRINT NAME AND TITLE ANGI SORENSEN, CONSTRUCTION ENGINEER	DATE 3-4-16
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DIRECTOR APPROVAL BY:

SIGNATURE	PRINT NAME AND TITLE TOM MATTSON, DIRECTOR OF PUBLIC WORKS	DATE
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WE, THE UNDERSIGNED CONTRACTOR, HAVE GIVEN CAREFUL CONSIDERATION TO THIS CHANGE PROPOSED AND AGREE, IF THIS PROPOSAL IS APPROVED, 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, THEREFORE, THE PRICES SHOWN ABOVE. **NOTE: IF YOU, THE CONTRACTOR, DO NOT SIGN ACCEPTANCE OF THIS ORDER, YOUR ATTENTION IS DIRECTED TO THE REQUIREMENTS OF THE SPECIFICATION AS TO PROCEEDING WITH THE ORDERED WORK AND FILING A WRITTEN PROTEST WITHIN THE TIME THEREIN SPECIFIED.**

CONTRACTOR ACCEPTANCE BY:

SIGNATURE	PRINT NAME AND TITLE	DATE
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CONTRACT CHANGE ORDER #2 – ANALYSIS OF COSTS FOR DEFICIENCY MATERIAL

PROJECT NAME: Salt River Bridge Replacment on Waddington Road (C3G025) at PM 1.69

PROJECT NO: BRLOZB-5904(094)

CONTRACT NO. 594011

Placement Cost	\$ 20.00	\$/CY
Delivery Cost Factors	23.5	TN/Truck
	2	Truck/hr
	\$ 110.00	\$/hr

Material Type	Unit Weight ¹ (lb/ft ³)	Weight Delivered (TN)	Volume Delivered ² (CY)	Volume Paid ³ (CY)	Volume Due ⁴ (CY)	Weight Due ⁵ (TN)	Material Cost ⁶ (\$/TN)	Extended Material Price	Extended Delivery Price ⁷	Extended Placement Price ⁸	Total	\$/CY in place
Structure Backfill	141.81	2803.76	1464.59	810	654.59	1253.12	\$ 10.00	\$12,531.19	\$2,970.00	\$13,091.70	\$ 28,592.90	\$ 43.68
Class 2 AB	147.33	1283.70	645.39	575	70.39	140.01	\$ 11.00	\$ 1,540.15	\$ 330.00	\$ 1,407.87	\$ 3,278.02	\$ 46.57
AC Grindings	136.18	413.89	225.14		87.86	161.51	\$ 19.00	\$ 3,068.69	\$ 440.00	\$ 1,757.10	\$ 5,265.79	\$ 59.94
					812.83			\$17,140.03	\$3,740.00	\$16,256.67	\$ 37,136.70	

¹ Compaction Test Reports referenced in unit weight source calculations below are in the project file (Category 4: Materials).

² Volume Delivered = (Weight Delivered) x (2,000 lb/TN) / (Unit Weight) / (27 ft³/CY)

³ Volume Paid = Quantities Paid at Contract Unit Prices for Item 15: Structure Backfill and Item 18: Class 2 Aggregate Base

Volume Paid = Quantity Paid at Force Account Price for AC Grindings on CCO Items 1b & 1d

⁴ Volume Due = (Volume Delivered) – (Volume Paid)

⁵ Weight Due = (Volume Due) x (Unit Weight) x (27 ft³/CY) / (2,000 lb/TN)

⁶ Material Costs are taken from invoices documenting CCO #1.

⁷ Extended Delivery Price* = (Truck Rental Rate) x (Weight Due) / (23.5 TN/Truck) / (2 Trucks/Hour)

*Note that the calculated number of truck loads is rounded up to account for delivery to site.

⁸ Extended Placement Price = (Volume Due) x (\$20/CY)

Test #	Density (g/cc)	Density (lb/ft ³)
15-124(B)	2.26	141.09
15-208(B)	2.26	141.09
15-210(B)	2.28	142.34
15-213(B)	2.33	145.46
15-218(B)	2.33	145.46
15-220(B)	2.24	139.84
15-221(B)	2.20	137.35
Average	2.27	141.81

Test #	Density (g/cc)	Density (lb/ft ³)
15-236(B)	2.35	146.71
15-237(B)	2.37	147.96
Average	2.36	147.33

Test #	Density (g/cc)	Density (lb/ft ³)
15-140(B)	2.11	131.73
15-143(B)	2.18	136.10
15-150(B)	2.22	138.59
15-154(B)	2.14	133.60
15-155(B)	2.16	134.85
15-156(B)	2.14	133.60
15-159(B)	2.24	139.84
15-178(B)	2.26	141.09
Average	2.18	136.18

COUNTY OF HUMBOLDT
REQUEST FOR BUDGET TRANSFER/ADJUSTMENT

A _____

DEPARTMENT: Public Works DEPARTMENT #: 321 POSTING DATE: 3/22/2016

1.) The reason for this budget transfer request is:

<u> </u>	Transfer within expenditure/revenue category (with Auditor Approval)	Original only
<u> X </u>	Transfer between expenditure/revenue category (with CAO & Auditor Approval)	Original +1
<u> </u>	Increase/decrease Intrafund Transfer account (with Board Approval)*	Original +1
<u> </u>	Transfer to or from Contingencies (with Board Approval)*	Original +1
<u> </u>	Increase/decrease budget unit appropriation (with Board approval)*	Original +1
<u> </u>	Establish/transfer funds in Fixed Assets <\$10,000 (CAO & Auditor Approval)	Original +1
<u> </u>	Establish/transfer funds in Fixed Assets >\$10,000 (with Board Approval)*	Original +1

Amount:	Transfer to Account:	Transfer from Account:
\$ 26,169.00	1200321-0316	1200321-2118

3.) In the space below, state (a) reason for transfer request, (b) reason why there are sufficient balances in affected accounts, and (c) why transfer cannot be delayed until next budget year.

To provide funding for construction Change Orders per attached Agenda item.
(Salt River Bridge Project#594011)

4.) Department Authorization: Date 3/4/16 (signed) [Signature]

5.) Account balances verified by Auditor-Controller Date 3/7/16 (signed) [Signature]

6.) /Approved /Not approved /Recommended /Not recommended
County Administrative Officer: Date (signed)

INSTRUCTIONS

SEND ORIGINAL REQUEST FOR BUDGET TRANSFER DIRECTLY TO THE AUDITOR-CONTROLLER.

* Requires copy of Board Order to be attached Posted by _____