

**CONTRACT CHANGE ORDER MEMORANDUM**

TO: Tony Anziano, Program Manager /			FILE: E.A. 04 - 0120F4	
FROM: Darryl Schram, Senior TE			CO-RTE-PM SF-80-13.2/13.9	
FED. NO.				
CCO#: <b>263</b>	SUPPLEMENT#: <b>0</b>	Category Code: <b>CHSA</b>	CONTINGENCY BALANCE (incl. this change) <b>\$92,835,273.99</b>	
COST: <b>\$330,994.00</b> INCREASE <input checked="" type="checkbox"/> DECREASE <input type="checkbox"/>			HEADQUARTERS APPROVAL REQUIRED? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	
SUPPLEMENTAL FUNDS PROVIDED: <b>\$0.00</b>			IS THIS REQUEST IN ACCORDANCE WITH ENVIRONMENTAL DOCUMENTS? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	
CCO DESCRIPTION: Cable Wrapping			PROJECT DESCRIPTION: CONSTRUCT SELF-ANCHORED SUSPENSION BRIDGE	
Original Contract Time: <b>2490</b> Day(s)	Time Adj. This Change: <b>0</b> Day(s)	Previously Approved CCO Time Adjustments: <b>501</b> Day(s)	Percentage Time Adjusted: (including this change) <b>20</b> %	Total # of Unreconciled Deferred Time CCO(s): (including this change) <b>3</b>

**THIS CHANGE ORDER PROVIDES FOR:**

Modifying the wrapping of the main cable as follows:

- Providing specific direction for the use of thermite welds and resistance butt welds to secure and slice wrapping wire.
- Procuring additional Cadweld equipment for placing thermite welds.
- Changing the method of securing the wrapping wire at the cable bands at both ends of a cable bay.
- Modifying zinc paste application.

Revising Special Provisions Section 10-1.60 "CABLE SYSTEM," subsection "ERECTION," and subsections "Wrapping of the Cable" and "Zinc Paste Waterproofing System."

The Special Provisions call for solder to secure "S"-Shaped Wrapping Wire for the main cable. Soldering is not an acceptable method for securing the wrapping wire and is not consistent with the intended service life of the main cable. Contract Change Order (CCO) 170 "Wrapping Wire Welding" developed an alternative method to secure the wrapping wire by using a thermite weld process. This change order will revise the cable wrapping specifications and compensate for additional material procurement and installation costs.

Wrapping wire cannot be hand wrapped into the lower cable band recess at start of wrapping a bay as required by contract. The wrapping will be secured by welding then forced back into the cable band groove. At the upper band, Cadwelds can not be placed close enough to the cable band to secure the wrapping wire termination. The wire will be secured within the cable band groove by use of galvanized steel wedges

Additional Cadweld material will be required during the work. The Department will cover the cost.

Special Provisions Section 10-1.60 required the temperature of cable wire to be 3 degrees above dew point for the application of zinc paste. This is not required by the manufacturer of the zinc paste, which only requires that the cable be dried to the touch with a clean dry cloth prior to application. The specification will be changed accordingly.

This change order resolves the costs associated with Contractor Request for Information (RFI) Number 3037 with respect to the changes listed above.

The total cost of this change order is \$330,994.00 lump sum, which can be financed from the contingency fund. A detailed cost analysis is on file.

No time adjustment is warranted as this change order does not affect the controlling operation.

This change order has concurrence from William Casey (Supervising TE), Rich Foley (HQ Oversight), Ken Terpstra (Project Manager), Wenyi Long (Bridge Design), Lina Ellis (Maintenance), and Jing Chen (District Design).

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CONCURRED BY:			ESTIMATE OF COST		
Construction Engineer:	William Casey, Sup TE	Date 8/31/12		THIS REQUEST	TOTAL TO DATE
Bridge Engineer:	CT Oversight, Wenyi Long, P.E.	Date 12/28/12	ITEMS	\$0.00	\$0.00
Project Engineer:	District Design, Jing Chen	Date 12/28/12	FORCE ACCOUNT	\$0.00	\$0.00
Project Manager:	Proj Manager, Ken Terpstra	Date 9/7/12	AGREED PRICE	\$330,994.00	\$330,994.00
FHWA Rep.:		Date	ADJUSTMENT	\$0.00	\$0.00
Environmental:		Date	<b>TOTAL</b>	<b>\$330,994.00</b>	<b>\$330,994.00</b>
Other (specify):	HQ, Rich Foley	Date 9/6/12	<b>FEDERAL PARTICIPATION</b>		
Other (specify):	Struct. Maint, Lina Ellis	Date 1/4/13	<input type="checkbox"/> PARTICIPATING <input type="checkbox"/> PARTICIPATING IN PART <input checked="" type="checkbox"/> NONE <input type="checkbox"/> NON-PARTICIPATING (MAINTENANCE) <input type="checkbox"/> NON-PARTICIPATING		
District Prior Approval By:	HQ, Larry Salhaney	Date 9/27/12	FEDERAL SEGREGATION (if more than one Funding Source or P.I.P. type)		
HQ (Issue Approve) By:		Date	<input type="checkbox"/> CCO FUNDED PER CONTRACT <input type="checkbox"/> CCO FUNDED AS FOLLOWS		
Resident Engineer's Signature:		Date	FEDERAL FUNDING SOURCE	PERCENT	
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