

**CONTRACT CHANGE ORDER MEMORANDUM**

TO: Tony Anziano, Program Manager /			FILE: <b>E.A.</b> 04 - 0120F4	
FROM: Darryl Schram, Senior TE			<b>CO-RTE-PM</b> SF-80-13.2/13.9	
FED. NO.				
CCO#: <b>81</b>	SUPPLEMENT#: <b>0</b>	Category Code: <b>CBPC</b>	CONTINGENCY BALANCE (incl. this change): <b>\$101,891,539.51</b>	
COST: <b>\$336,599.00</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>\$118,400.00</b>		IS THIS REQUEST IN ACCORDANCE WITH ENVIRONMENTAL DOCUMENTS? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		
CCO DESCRIPTION: TOS Modifications			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 Traffic Operation System (TOS) and the Supervisory Control and Data Acquisition (SCADA) Remote Terminal Unit (RTU) system by providing model GE RX3i or equal for the SCADA RTU programmable logic controller system, revising Closed Circuit Television equipment, relocating TOS cameras at Tower elevation 144.165 M, revising the TOS cameras pedestals, rerouting conduit risers on skin plate D of Northwest and Southeast shafts. In lieu of splice cabinet at Manhole 27, fiber splice closures will be installed by separate contract

Revising Special Provisions Sections 10-3.09 "PULL BOXES, SPLICE BOXES AND JUNCTION BOXES," 10-3.10 "CONDUCTORS, CABLES AND WIRING," and 10-3.13 "TRAFFIC OPERATION SYSTEM."

The original contract specifies cameras and programmable logic controller that are no longer available. Therefore, this change order is needed to provide compatible and available equipment. TOS cameras will be relocated to maximize the viewable area of the structure roadway and to provide safe maintainability of the equipment. The TOS camera mounting detail requires correcting on the pedestals. Conduit risers will be rerouted to resolve conflicts with the mechanical piping. The splice cabinet is larger than the manhole's access opening, therefore a fiber splice closure will be used. The pan/tilt unit and video transmitter duplex data bid items will be deleted and fiber optic splice closure bid item quantity revised to be consistent with the newer model cameras being provided.

This change order resolves the costs associated with Contractor Request for Information (RFI) numbers 1133 and 2921 with respect to changes listed above.

This change order eliminates Bid Items: 112 - Pan/Tilt Unit, 114 - Video Transmitter Duplex Data, and 119 - Fiber Optic Splice Closure. This change order modifies Bid Items: 111 - Camera With Housing Enclosure, 113 - Camera Control Unit, and 118 - Fiber Optic Cable (12-Fiber Indoor/Outdoor).

The cost of this change order consists of a lump sum of \$354,199.0 and a bid item credit of (\$17,600.00) for a total of \$336,599.00, of which \$118,400.00 will be financed from provided supplemental funds and the remaining \$218,199.00 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 obtained concurrence from William Casey (Supervising TE), Ken Terpstra (Proj. Manager), Rich Foley (HQ Oversight), Wenyi Long (Bridge Design), Lina Ellis (Maintenance), and Jing Chen (District Design).

CONCURRED BY:		ESTIMATE OF COST																
Construction Engineer:	William Casey, Sup TE	Date	7/27/12															
Bridge Engineer:	CT Oversight, Wenyi Long, P.E.	Date	10/5/11															
Project Engineer:	District Design, Jing Chen	Date	9/26/11															
Project Manager:	Proj Manager, Ken Terpstra	Date	7/30/12															
FHWA Rep.:		Date																
Environmental:		Date																
Other (specify):	HQ, Rich Foley	Date	7/30/12															
Other (specify):	Struct. Maint, Lina Ellis	Date	9/20/11															
District Prior Approval By:	HQ, Larry Salhaney	Date	9/21/11															
HQ (Issue Approve) By:		Date																
Resident Engineer's Signature:		Date	10/20/12															
		<b>ESTIMATE OF COST</b> <table border="1"> <thead> <tr> <th>ITEMS</th> <th>THIS REQUEST</th> <th>TOTAL TO DATE</th> </tr> </thead> <tbody> <tr> <td>FORCE ACCOUNT</td> <td>\$0.00</td> <td>\$0.00</td> </tr> <tr> <td>AGREED PRICE</td> <td>\$0.00</td> <td>\$0.00</td> </tr> <tr> <td>ADJUSTMENT</td> <td>\$354,199.00</td> <td>\$354,199.00</td> </tr> <tr> <td><b>TOTAL</b></td> <td><b>\$336,599.00</b></td> <td><b>\$336,599.00</b></td> </tr> </tbody> </table>		ITEMS	THIS REQUEST	TOTAL TO DATE	FORCE ACCOUNT	\$0.00	\$0.00	AGREED PRICE	\$0.00	\$0.00	ADJUSTMENT	\$354,199.00	\$354,199.00	<b>TOTAL</b>	<b>\$336,599.00</b>	<b>\$336,599.00</b>
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		<b>FEDERAL SEGREGATION</b> (if more than one Funding Source or P.I.P. type) <input type="checkbox"/> CCO FUNDED PER CONTRACT <input type="checkbox"/> CCO FUNDED AS FOLLOWS																
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