

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. No				
CCO#: 252	SUPPLEMENT#: 0	Category Code: CBPC	CONTINGENCY BALANCE (incl. this change) \$21,137,172.42	
COST: \$250,546.00		INCREASE <input checked="" type="checkbox"/> DECREASE <input type="checkbox"/>		HEADQUARTERS APPROVAL REQUIRED? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
SUPPLEMENTAL FUNDS PROVIDED: \$0.00		IS THIS REQUEST IN ACCORDANCE WITH ENVIRONMENTAL DOCUMENTS? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		
CCO DESCRIPTION: Roadway Level LED Fixture Details		PROJECT DESCRIPTION: CONSTRUCT SELF-ANCHORED SUSPENSION BRIDGE		
Original Contract Time: 2490 Day(s)	Time Adj. This Change: 0 Day(s)	Previously Approved CCO Time Adjustments: 501 Day(s)	Percentage Time Adjusted: (including this change) 20 %	Total # of Unreconciled Deferred Time CCO(s): (including this change) 36

THIS CHANGE ORDER PROVIDES FOR:

Furnishing and installing additional Main Span Aesthetic Light Pylon Flood Light (MAT) fixtures on the barriers. Furnishing and installing Light Emitting Diode (LED) driver boxes for roadway level MAT fixtures. Replacing pull boxes PB-1B with LED driver boxes for Main Span Aesthetic Light Upward Flood Light (MAU) fixtures. Revising location of floodlights on crossbeams 5 and 6. Revising conduit routing from Orthotropic Box Girder (OBG) decks to suspension cables. Modifying channel strut attachments to the OBG decks and crossbeam top plates. Repairing damaged paint.

Contract Change Order (CCO) 167 "Replace Metal Halide Lights with LEDs" changed Main Span Aesthetic Light Downward Flood Light (MAD), Main Span Aesthetic Light Marker Light (MAM), Main Span Aesthetic Light Pylon Marker Light (MAP), MAR, Main Span Aesthetic Light Pylon Flood Light (MAT), MAU, Main Span Safety Light Roadway Light (MSR), and MSV fixtures to LED. CCO 72 S1 "Additional Cable Electrical" changed aviation fixtures to LED and made other electrical changes to support LED for aviation, MAD, MAP, and MSR fixtures. CCO 61 "Electrical Warning Systems" changed navigation fixtures to LEDs and modified conductors and electrical enclosures to support LED. CCO 141 "Sign Structure" changed the overhead sign structure fixtures to LED and added driver boxes to support LED. CCO 270 "LED Fixture Details Belvedere/Tower Base" added driver boxes to support LED for the belvedere light pole and Tower base fixtures that were changed to LED in CCO 167.

This CCO will add driver boxes to support LED for MAT and MAU fixtures that were changed to LED in CCO 167. Lights will also be installed on the barriers to properly light the Tower without shadows. Floodlights will be relocated to resolve conflicts between light fixtures and cable rail gates. Conduit routing from the Orthotropic Box Girder deck to the suspension cables will be revised to ensure the conduit can endure seismic displacement. Channel strut attachments will be revised to provide a stronger attachment.

The total cost of this change order is \$250,546.00 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), 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 12/27/12		THIS REQUEST	TOTAL TO DATE
Bridge Engineer:	CT Oversight, Wenyi Long, P.E.	Date 12/26/12	ITEMS	\$0.00	\$0.00
Project Engineer:	District Design, Jing Chen	Date 12/27/12	FORCE ACCOUNT	\$0.00	\$0.00
Project Manager:		Date	AGREED PRICE	\$250,546.00	\$250,546.00
FHWA Rep.:		Date	ADJUSTMENT	\$0.00	\$0.00
Environmental:		Date	TOTAL	\$250,546.00	\$250,546.00
Other (specify):	HQ, Rich Foley	Date 12/28/12	FEDERAL PARTICIPATION		
Other (specify):	Struct. Maint, Lina Ellis	Date 12/27/12	<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 1/30/13	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	
		5/6/14	_____	_____	
			_____	_____	