

CONTRACT CHANGE ORDER MEMORANDUM

DC-CEM-4903 (OLD HC-39 REV. 6/93) CT# 7541-3544-0

DATE

July 9, 2010

TO: Peter Siegenthaler, Prin. T.E.			FILE 04-0120F4	
FROM Gary Pursell, Sup. T.E.			04-SF-80-13.2, 13.9	
CCO NO. 152	SUPPLEMENT NO. 0	CATEGORY CODE CHSA	CONTINGENCY BALANCE (including this change) \$78,231,909.40	
\$0 INCREASE <input type="checkbox"/> DECREASE <input type="checkbox"/>			HEADQUARTERS APPROVAL REQUIRED? YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>	
SUPPLEMENTAL FUNDS PROVIDED: \$ 0.00 CCO Description: Electroslag Welding Specs Change			IS THIS REQUEST IN ACCORDANCE WITH ENVIRONMENTAL DOCUMENTS? YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>	
Original Contract Time 2490 Day(s)	Time Adj.: This Change 0 Day(s)	Previously Approved CCO Time Adjustments 227 Day(s)	Percentage Time Adjusted: (including this change) 9%	Total # of Unreconciled Deferred Time CCO(s): (including this change) 6

THIS CHANGE ORDER PROVIDES FOR:

Revising Section 10-1.59, "Steel Structures," of the Special Provisions to incorporate requirements for the Narrow-Gap Improved Electroslag Welding (NGI-ESW) process.

For bridge welding for this Contract, the applicable welding code is the AASHTO/AWS D1.5:2002 Bridge Welding Code. The qualification of ESW welds requires the inclusion of different essential variables beyond those included in the Contract Specifications, specifically the AWS D1.5:2002 Bridge Welding Code. The FHWA issued a set of reports and recommendations in 1996 for the inclusion of Narrow Gap Improved Electroslag Welding (NGI-ESW) in the future AWS D1.5 code. These recommendations were the basis of the ESW requirements in the Contract Special Provisions.

However, since 1996, there has been significant testing and research of the NGI-ESW process and therefore AWS has approved extensive revisions for ESW in the 2010 edition of the AWS D1.5 Welding Code. Various AWS Code committee members and chairmen, including Dr. John Barsom, Dr. B. Turpin, Mr. Dave McQuaid, and Dr. John Fisher, have made recommendations for the improvement of these specifications including the elimination of the Charpy V-Notch specimens in the coarse grain heat affected zone. These recommendations include revising the requirements for Welding Procedure Specifications and Procedure Qualification as well as Post Weld Heat Treatment. These recommendations as well as a copy of the approved AWS Bridge Code Proforma Ballot for the AWS D1.5:2010 are on file. The Designer has recommended that the Special Provisions be revised to reflect these recommendations.

Therefore, Section 10-1.59, "Steel Structures," of the Special Provisions will be revised to incorporate requirements for the Narrow-Gap Improved Electroslag Welding (NGI-ESW) process to reflect pending changes to the AWS D1.5:2002 Bridge Welding Code.

This Change Order was discussed with the following people, who all concurred with this Change Order:

1. Brian Maroney (Deputy Toll Bridge Program Manager)
2. Ade Akinsanya (Structure Design Oversight, Toll Bridge Program)
3. Ken Terpstra (Project Engineer)
4. Rich Foley (HQ Construction, SAS Oversight)
5. Keith Hoffman (METS)
6. Mazen Wahbeh (METS)

Maintenance concurrence is not required, as the work for this Change Order will not affect future Maintenance operations.

There shall be no change in cost to the Department by reason of this Change Order.

No adjustment of contract time is warranted, as this Change Order will not affect the controlling operation.

The Resident Engineer requests Head Quarters CCO Desk "Issue and Approve".

CONCURRED BY:		ESTIMATE OF COST	
STRUCTURE REPRESENTATIVE	DATE	THIS REQUEST	TOTAL TO DATE
Rick Morrow	7/12/10		
SR. BRIDGE ENGINEER	DATE	ITEMS	
		FORCE ACCOUNT	
FHWA REPRESENTATIVE	DATE	AGREED PRICE	\$0.00
		ADJUSTMENT	\$0.00
PROJECT ENGINEER	DATE	TOTAL	\$0.00
Ken Terpstra	7/9/10		\$0.00
OTHER (SPECIFY)	DATE	FEDERAL PARTICIPATION	
<i>Ken H. Morrow</i>	7/12/2010	<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	
	DATE	FEDERAL SEGREGATION (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	
DISTRICT PRIOR APPROVAL BY	DATE	FEDERAL FUNDING SOURCE	PERCENT
HQ (ISSUE & APPROVE) (TO PROCEED) BY	DATE		
Larry Galhane	7/8/10		
RESIDENT ENGINEER SIGNATURE	DATE		
<i>Don Russell</i>	7/12/10		