

CONTRACT CHANGE ORDER MEMORANDUM

DATE: 02/26/2010

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

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| TO Pete Siegenthaler, Principal TE | | | FILE 04-0120F4 | |
| FROM Gary Pursell, STE / Richard Morrow, SBE | | | 04-SF-80-13.2/13.9 | |
| CCO NO. 132 | SUPPLEMENT NO. 0 | CATEGORY CODE CHSB | CONTINGENCY BALANCE (including this change) \$8,014,909.40 | |
| \$50,988.00 | | | HEADQUARTERS APPROVAL REQUIRED? YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> | |
| INCREASE <input checked="" type="checkbox"/> DECREASE <input type="checkbox"/> | | | | |
| SUPPLEMENTAL FUNDS PROVIDED \$ | | | IS THIS REQUEST IN ACCORDANCE WITH ENVIRONMENTAL DOCUMENTS? YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> | |
| CCO DESCRIPTION: Wind Load Analysis | | | 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 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:

A one-time waiver to the restriction against firms involved in the Design work of the new San Francisco Oakland Bay Bridge (SFOBB) from subcontracting any portion of the construction contract in accordance with Section 2-1.056, "STATE EMPLOYEES AND DESIGN ENGINEERS MAY NOT BID ON CONSTRUCTION CONTRACT" of the Standard Specifications.

West Wind Laboratory, Inc. performed the wind studies for the new San Francisco Oakland Bay Bridge (SFOBB) Self-Anchored Suspension Span (SAS) contract, several years ago, during the design phase lead by the design firm TYLin-Moffatt & Nichol, JV. It has been agreed by both the Contractor and the Department that it is in the best interest of the contract to allow West Wind Laboratory to perform wind studies as determined by the Contractor and in accordance with Section 10-1.41, "TEMPORARY TOWERS," subsection, "TEMPORARY TOWER DESIGN," subsection "Wind Loads," of the Special Provisions. Since a small number of firms can perform this type of work, it has been determined through our Risk Management Team, that West Wind Laboratory, Inc can best complete this work in order to meet both the technical requirements and time restrictions of this project. Further, a portion of the work may be determined to be due to actions and directions of the Engineer. It is, therefore, in the Department's interest to assist in keeping the costs for this work to a minimum.

In addition, the Department has the authority to allow this waiver, per Section 10365.5(b) of the Public Contracts Code, which states that since West Wind Laboratory has less than 10 percent of the total monetary value of the consulting services contract, the restriction upon which Section 2-1.056 of the Standard Specifications is based does not apply. Section 10365.5 of the Public Contracts Code states the following:

- "10365.5. (a) No person, firm, or subsidiary thereof who has been awarded a consulting services contract may submit a bid for, nor be awarded a contract for, the provision of services, procurement of goods or supplies, or any other related action which is required, suggested, or otherwise deemed appropriate in the end product of the consulting services contract.
- (b) Subdivision (a) does not apply to any person, firm, or subsidiary thereof who is awarded a subcontract of a consulting services contract which amounts to no more than 10 percent of the total monetary value of the consulting services contract.
- (c) Subdivisions (a) and (b) do not apply to consulting services contracts subject to Chapter 10 (commencing with Section 4525) of Division 5 of Title 1 of the Government Code."

Since it is in the best interest of the project to allow this waiver, and the Contract code does not prevent the change, the Resident Engineer recommends approval of this CCO.

Perform additional analyses to determine natural frequencies and mode shapes of the combined bridge, cable, temporary tower, and temporary truss structures for use in the wind analysis of Orthotropic Box Girder (OBG) during Phase 1 and 2 Load Transfer.

This change order also provides additional analyses to determine natural frequencies and mode shapes of the combined bridge, cable, temporary tower, and temporary truss structures for use in the wind analysis of Orthotropic Box Girder (OBG) during Phase 1 and 2 Load Transfer. The Department directed the Contractor to not tension cable band bolts and install suspender ropes at panel points 44, 46 and 48 during Phase 1 of the Load Transfer. This was done to minimize

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secondary stresses in the cable due to cable angle break. As a result the OBG, between Phases 1 and 2 of the Load Transfer, may be susceptible to damage due to wind induced oscillations. These wind induced oscillations have the potential to lift and pound the box girders on the supporting cradles. To prevent this condition the wind effects on the box girders must be analyzed. Required additional analyses are not covered by any contract items.

This change order resolves Contractor Request for Change Order (RFCO) 76 and associated Requests For Information (RFI's) 1099R00, 1295R00, and 1295R01 with respect to changes listed above.

For this change, the Contractor will be paid the agreed upon lump sum of \$50,988.00, which can be financed from the contingency fund. A detailed cost analysis is on file.

No adjustment of contract time is warranted, as this change does not affect the controlling operation.

This change order received concurrences from Gary Pursell (Resident Engineer), Rick Morrow (Structure Rep.), Pete Siegenthaler (Principal Engineer), Brian Maroney (Project Engineer), Marwan Nader (Designer of Record), Jon Tapping (HQ Coordinator), Rich Foley (HQ Liaison) and Ken Terpstra (Project Manager). Design and Maintenance concurrences are not required for this change.

This Change Order received an Issue and Approve (I&A) from Headquarter Construction on 1/13/2010. The Resident Engineer requests a revised Issue and Approve (I&A) from Headquarter Construction for this change, which includes additional scope and merited compensation.

| CONCURRED BY: | | ESTIMATE OF COST | |
|--------------------------------------|---------|--|--|
| CONSTRUCTION ENGINEER | DATE | THIS REQUEST | TOTAL TO DATE |
| Res. Eng. Gary Pursell, Sup. TE | 1/5/10 | | |
| SR. BRIDGE ENGINEER | DATE | ITEMS | \$0.00 |
| Rick Morrow, Struct. Rep. | 1/5/10 | FORCE ACCOUNT | \$0.00 |
| FHWA REPRESENTATIVE | DATE | AGREED PRICE | \$0.00 |
| | | ADJUSTMENT | \$50,988.00 |
| PROJECT MANAGER | DATE | TOTAL | \$0.00 |
| Proj. Manager, Ken Terpstra | 1/7/10 | | \$0.00 |
| OTHER (SPECIFY) | DATE | FEDERAL PARTICIPATION | |
| HQ Liaison, Rich Foley | 1/6/10 | <input type="checkbox"/> PARTICIPATING | <input type="checkbox"/> PARTICIPATING IN PART |
| Project Engineer, Brian Maroney | 1/4/10 | <input type="checkbox"/> NON-PARTICIPATING (MAINTENANCE) | <input checked="" type="checkbox"/> NONE |
| HQ Coordinator, Jon Tapping | 1/4/10 | | <input type="checkbox"/> NON-PARTICIPATING |
| PCE, Peter Siegenthaler, Prin TE | DATE | FEDERAL SEGREGATION (IF MORE THAN ONE FUNDING SOURCE OR P.I.P. TYPE) | |
| | 1/7/10 | <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 | | |
| HQ Const, Larry Salhaney | 1/13/10 | | |
| RESIDENT ENGINEER SIGNATURE | DATE | | |
| <i>Gary Pursell</i> | 3/1/10 | | |