

DEPARTMENT OF TRANSPORTATION -Toll Bridge Program

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January 7, 2011

Contract No. 04-0120F4
04-SF-80-13.2 / 13.9
Self-Anchored Suspension Bridge
Letter No. 05.03.01-008841

Brian A Petersen
Project Executive
American Bridge/Fluor, A JV
375 Burma Road
Oakland, CA 94607

Dear Brian Petersen,

Submittal 2075 - Sea Transportation Plan: Voyage 10

The Department has completed review of Submittal ABF-SUB-002075R00, "Sea Transportation Plan: Voyage 10 - OBG 11 Cross Beam, Tower Lift 4 & 5 (Bike Paths & Barriers)," dated December 28, 2010. The submittal was provided for "Review and Comment." The Department's review has generated the following comments and observations which may be used for updating the Sea Transportation Plan:

1. Per the Glostien statement, it is the Department's understanding that the design was based on the worst sea conditions forecast during the planned three-month shipping window of December to February.
2. The KPFF OBG rail reactions, as indicated by the hog/sag analysis, are not consistent with the ZPMC drawings. Rail Nos. 7 and 14, which do not exist on the ZPMC drawings, have a total reaction of 1200 Tonnes. Re-distribution to adjacent rails will likely require stronger shoring.
3. Based upon past shoring layouts, it is suggested that a Type H shoring be considered at OBG Frame 12 (PP 97) unless other changes are required by addressing the rail reaction comment above.
4. The fatigue stresses indicated in several of the S-N plots are not consistent with the maximum stresses indicated in the corresponding tables (i.e. Table 25 vs. Figure 3.436, Table 26 vs. Figure 3.440, and Table 27 vs. Figure 3.443). It also not clear why the bottom cross beam has the higher cyclic stress of the two (Figure 3.436).

These comments were discussed with ABF on January 6, 2011. If you have any questions, please contact Mark Woods at (510) 622-5107.

Sincerely,

A handwritten signature in blue ink that appears to read "Mark Woods".

Mark Woods

for RICK MORROW
Construction Manger (Tower)

For: PETER SIEGENTHALER
Resident Engineer

file: 05.03.01, 55.2075