

DEPARTMENT OF TRANSPORTATION -Toll Bridge Program

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July 1, 2010

Contract No. 04-0120F4
04-SF-80-13.2 / 13.9
Self-Anchored Suspension Bridge
Letter No. 05.03.01-007645

Michael Flowers
Project Executive
American Bridge/Fluor, A JV
375 Burma Road
Oakland, CA 94607

Dear Michael Flowers,

Authority to Proceed - CCO 120 - Hinge A Modifications - Bearings

In accordance with the provisions of Section 4-1.03, "Changes," of the Standard Specifications, you are hereby authorized to proceed with the changes presented in this letter, which will be incorporated into CCO No. 120, "Hinge A Modifications."

The changes for the Hinge A bearings to be installed at SAS Diaphragms A and B are as follows:

1. Increase the length of the 63.5mm diameter ASTM A449 threaded rods for the Type III Bearings at Diaphragm B and the Type IV Bearings at Diaphragm A to 530mm. This supersedes CCO 120 ATP Sketches 0853R0-SK-02R and 0854R0-SK-02R issued in State Letter 05.03.01-004661 dated July 15, 2009, which called for furnishing new 500mm long 63.5mm diameter ASTM A449 threaded rods for the bearings. The rods shall be hot-dip galvanized and the fit in the tapped holes in the State Furnished bearing anchor plates shall be verified.
2. Increase the size of the slotted holes in the diaphragm pipe sleeve and bearing support stiffener plates as shown in TC-RFI-0041R0, Sketch 3 of 3 (attached). Please be aware that the increased size of the slotted holes in the diaphragm pipe sleeve supersedes and is larger than the size of the slotted holes provided in the response to ABF-RFI-002041R00.
3. Replace the State Furnished flat nuts and beveled washers with new spherical nuts and washers as shown in TC-RFI-0041R0, Sketch 3 of 3 (attached). The new spherical nuts and washers shall be hot-dip galvanized.

A question regarding the nut tightening requirement for the Hinge A bearings was asked at the Working Drawing Campus. Use the following sequence:

1. Snug tighten the nuts after achieving the specified gap between the hinge pipe beams and the bearings so that the bearings are stable during the bearing shimming operation or during the bearing grouting option which is currently under discussion.

2. Once the shimming operation is complete, or the grout achieves full strength, loosen the nuts to the interior of the bearing support stiffeners and then tighten the nuts to the exterior of the bearing support stiffeners to snug tight plus a 1/4 turn to apply pressure to the shims or grout.
3. Once step 2 is complete, tighten the nuts to the interior of the bearing support stiffeners to snug tight plus a 1/4 turn.

You are further directed to transport the State Furnished circular segmented bearings and components to ZPMC for shop assembly and trial fit in the pipe sleeves of Diaphragms A and B.

Contract plan sheets will be modified and provided in CCO 120 to incorporate the increased rod length, increased slotted hole size, and to change to spherical nuts and washers as detailed in the Hinge A bearing changes as listed in Items 1, 2, and 3 above. CCO 120 will also incorporate the written direction provided above for tightening the nuts for the Hinge A bearings and will require installation of the bearings at the box girder fabrication site.

Sincerely,



GARY PURSELL
Resident Engineer

Attachment

cc: Brian Boal
Kannu Balan
Bill Casey

file: 05.03.01, 49.120, 56.2041