



Daily Diary Report by Bid Item

Contract No.: 04-0120F4

Diary #: 037 Const Calendar Day: 121 Date: 07-Jan-2010 Thursday

Inspector Name: Brignano, Bob Title: Transportation Engineer

Inspection Type:

Shift Hours: Break: Over Time:

Federal ID:

Location:

Reviewer: Schmitt, Alex Approved Date: 10-Oct-13 Status: Approved

04-0120F4
 04-SF-80-13.2/13.9
 Self-Anchored
 Suspension Bridge

Weather

Temperature	7 AM	12 PM	4 PM
Precipitation			Condition

Working Day If no, explain:

Diary:

Dispute

General Comments

ITEM 52 FURNISH STRUCTURAL STEEL (BRIDGE)(TOWER);
 ITEM 55 FURNISH STRUCTURAL STEEL (BRIDGE)(BOX GIRDER);
 HIGH STRENGTH FASTENER ASSEMBLY PRE-INSTALLATION TESTING:



At Pier 7 Warehouse, test rotational capacity, minimum tension verification, and inspection torque for high strength bolts. These bolts are for OBG field bolting. Caltrans witnessing of bolt testing is by Aaron Prchlik.

Two (2) lots are tested today. They are M22x85 and M22x80 A325M mechanically galvanized. The LeJeune Lot numbers are DHGM220062 and DHGM220064. For each lot, five (5) assemblies are tested, except as noted below.

Note that lot DHGM220064 was previously tested on 12/3/2009 and failed. For today's retest, there are 5 assemblies that were pulled from a second keg of bolts (not the same keg from which the samples came for the 12/3/2009 testing). LeJeune suggested to ABF that they test the bolts with less bolt stickout and that the previous failure may have been due to too much stickout and too few threads in the grip. The 5 assemblies from the new keg of bolts are tested with a carefully set stickout that is minimized and these 5 assemblies pass. However, this does not adequately resolve the issue of why some assemblies failed from a different keg of bolts on 12/3/2009. Since ABF marks which keg of bolts they pull samples, we are able to identify the keg from which those samples were taken for the 12/3/2009 testing and pull 5 more bolts from that previously sampled keg of bolts. Three of those assemblies were tested with less stickout and they passed. Then two of those assemblies are tested with more stickout (too few threads in the grip), and one of the two assemblies fail (bolt breaks). With this testing from the keg of bolts that was previously tested, and with the experiment with bolt stickout, we are satisfied that the originally sampled keg of bolts meets the spec and the previous failure on 12/3/2009 was due to a testing issue. Rocap lot DHGM220064, previously failed on 12/3/2009, is acceptable for use.

Equipment = Bolt Testing Conex ABF ID 002079 and Skidmore Model HT 4000 ABF ID 000612.

For ABF, engineers Chris Bausone and Sabrina Levine are present, along with ABF QCM Chuck Kanapicki.

Testing is from 0900 to 1100 in the morning for 2 hours.

See the attached Bolt Test Form for details of the testing.

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