



SAS Superstructure

Location: 04-SF-80-13.2 / 13.9

Client Name: CalTrans

Run date 21-Nov-14

Time 9:58 AM

Daily Diary Report by Bid Item

Contract No.: 04-0120F4

Diary #: 103 Const Calendar Day: 395 Date: 08-Oct-2010 Friday
 Inspector Name: Brignano, Bob Title: Transportation Engineer
 Inspection Type:
 Shift Hours: Break: Over Time:
 Federal ID:
 Location:
 Reviewer: Schmitt, Alex Approved Date: Status: Submit

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);
TOWER HEAD BOLT TESTING IN DRILL AND TAP HOLES:



Today's work is necessary because of an issue with the Tower Head where some bolts will be tightened into drill and tap holes. The plan is to test to full rocap turns without stripping the drill and tap holes in the soft steel plates (not the same as the hardened nuts used in a bolt assembly) to qualify normal turn of the nut installation of the bolts into drill and tap holes for the full clamping force of tensioned slip critical bolts. Previous tests on 5/4/2010 were per the CT response to ABF-RFI-002067R01. Today's tests are a follow up on the issue and are some of the tests per the CT response to ABF-RFI-002067R02. Previous tests in drill and tap holes were on 5/4/2010 and 5/14/2010.

The bolts for today's tests are mechanically galvanized M24x100. The long length is needed to get through the Skidmore and fully engage the longer threaded length of bolts over 100mm long (per ANSI) into the thick plates with drill and tap holes behind the Skidmore. The plates are drilled and tapped with standard M24 threads without tapping oversized for galvanized bolts. Three tests are performed with 35mm thick plates with 35mm deep drill and tap holes that have been solvent cleaned to remove tap oil and then allowed to weather/rust to represent the possible condition in the field.

For ABF, engineers Scott Yeager and Chris Bausone are present. For CT, Bob Brignano and Saman Soheilifard are present. Work happens at Bolt Testing Conex ABF ID 002079 with Skidmore Model HT 4000 ABF ID 000612 in the warehouse. Testing and discussion of test results in the field today is 1500 to 1530.

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

