



**SAS Superstructure**

Location: 04-SF-80-13.2 / 13.9

Client Name: CalTrans

Run date 21-Nov-14

Time 10:06 AM

**Daily Diary Report by Bid Item**

Contract No.: 04-0120F4

Diary #: 052 Const Calendar Day: 191 Date: 18-Mar-2010 Thursday

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



After yesterday's testing in the warehouse to establish the inspection torque for turning by the bolt head was not successful (see 3/17/2010 diary), additional testing in the field is performed today. This testing is for one splice of the crossbeams where the bolt head on the upper flange horizontal splice plate is being turned due to access issues inside the crossbeam. The tested assemblies yesterday had high torques because they do not include the lubricated nut (trying to turn the un-lubricated head against the washer), had highly variable torques, the torques increase from test to test, and the torques were from turning between elements that do not represent anything in the field splice.

The testing today is between 1330 and 1500. ABF engineer Chris Bausone and I get a manual Skidmore and torque wrench from the warehouse and go to YBI where the testing will happen on the suspended platform at W2. The Model MS Skidmore is ABF ID 001379. The torque wrench is the 2,000 ft-lb T-handle (double handle) torque wrench serial number 0707803033.

The test setup is with a painted steel plate between the Skidmore and the washer/head. This represents the field condition. The intent is for the rotation to be between the bolt head and the washer, but the rotation ends up being between the washer and the painted plate for the actual testing. This still represents the field condition because sometimes there is no rotation between the un-lubricated bolt head and washer. Present from ABF is engineer Chris Bausone. Present from CT are Bob Brignano, Saman Soheilifard, Jason Wilcox, and Sami Daouk. Testing of 5 assemblies is performed to establish the inspection torque for turning this one rocap lot (M24x100, DHGM240055) by the bolt head.

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

