Daily Diary Report by Bid Item

Contract No.: **04-0120F4**

Diary #: **587** **Const Calendar Day:** 995 **Date:** **30-May-2012** **Wednesday**
Inspector Name: **Bruce, Matt** **Title:** **Transportation Engineer**
Inspection Type: Intermittent
Shift Hours: 07:00 am 05:30 pm **Break:** 00:30 **Over Time:** 02:00
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** 50 - 60 **12 PM** 60 - 70 **4PM** 60 - 70
Precipitation 0.00" **Condition** Overcast in the AM to sunny in the PM

Working Day ☐ If no, explain:

Diary:

Dispute ☐

Work description.

- Compiled a spreadsheet of the stressed bolt elongation measurements for cable bands E32 and E34 done Tuesday May 29th. Yesterday as the Smith Emery technicians took elongation measurements with the Extensometer, I used the Mini-Max device to check the elongation value of the Extensometer. The average elongation for the Extensometer was 0.6599mm, where the Mini-Max elongations average was 1.0768mm. The delta between the average elongation of the two instruments is 0.4537mm or 0.0179".

- Attended an internal meeting at 8:00am regarding the discrepancies between the Mini-Max device and the Extensometer. Attendees included Tai-Lin Liu, Warren Collins, Dave McCrary, and myself. Brian Boal and Roman Granados were briefly at the meeting. The Extensometer is the contractual requirement for measuring the cable band bolt elongations. Due to the discrepancies between the equipment and stressing the cable bands being on the critical path for load transfer, this issue had to be addressed immediately.

- Attended the Team Cable Safety Tailgate meeting at 10:30am in the Caltrans conex box located on the E-Line OBG.

- Performed QA verification on the measurements taken by the 3 Smith Emery technicians using ABF#2 Extensometer for the top row (odd numbered) of bolts in cable band E22. The Smith Emery technicians performing the measurements were Allen Miranda, Jeff Reinheimer, and Brien Connolly. Jeff took all of the readings today from the dial as I confirmed each and every measurement. Allen ensured that the fixed pin went into the cable band bolt dimple for an accurate measurement. Brien was predominately responsible for handling the Extensometer on the top row of cable band bolts and operating the spring pinned end of the Extensometer. For the cable band bolt measurements that I witnessed the standard bar readings were the following at the given time below on ABF standard bar #5:

1.) 0.35" + 0.0064" = 0.3564" @ 12:18pm
2.) 0.35" + 0.0051" = 0.3551" @ 2:20pm

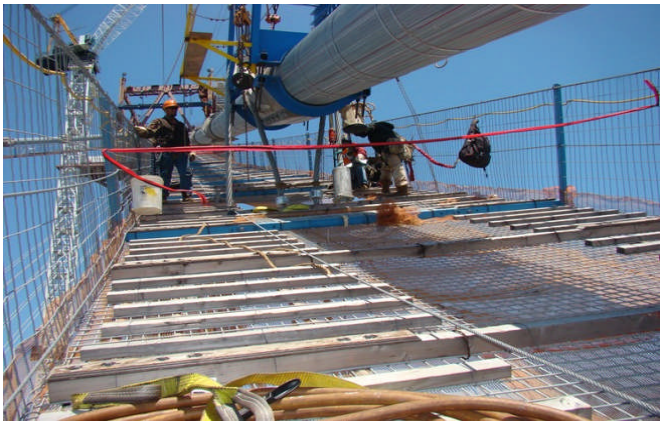
The tolerance is 0.10mm (0.0039") between calibration measurements with the standard bar. The delta for this afternoons calibration check was 0.0013", which is acceptable. It should be noted that the Smith Emery technicians left the standard bar with the Extensometer outside their conex box for a few minutes prior to checking calibration. This practice was not done in previous days prior to checking the standard bar calibration measurements.

Alex Schmitt was responsible for watching the Smith Emery technicians taking elongation measurements with the Extensometer from 7:00am to 12:00pm. See his diary for more details regarding this operation. I took over for him after lunch as the Smith Emery technicians were not really given a plan as what to

measure in the afternoon after finishing this cable band. Therefore much of the afternoon was spent waiting to see if any more cable band bolts would be measured with the Extensometer.

- Began organizing the Extensometer data for a spreadsheet summary of the elongation measurements to be done by Michelle Chui.

Attachment



Suspender installation work area on the South Sidespan where portions of the catwalk mesh are being cut out.

ABF ironworkers installing a suspender rope on the North Sidespan.

Sidespan suspender installation as of 10:00am today.

Serial number of ABF#2 Extensometer.