



SAS Superstructure

Location: 04-SF-80-13.2 / 13.9

Client Name: CalTrans

Run date 21-Nov-14

Time 11:13 PM

Daily Diary Report by Bid Item

Contract No.: 04-0120F4

Diary #: 610 Const Calendar Day: 24 Date: 28-Jun-2012 Thursday

Inspector Name: Bruce, Matt Title: Transportation Engineer

Inspection Type: Intermittent

Shift Hours: 05:30 am 05:00 pm Break: 00:30 Over Time: 03:00

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 Partly cloudy to sunny

Working Day [ ] If no, explain:

Diary:

Dispute

Work description.

- Assisted District 4 scanners Robert Dolan, Randall Wigton, Jeremiah Bean, and Dave Korycinski with the pre Load Transfer scanning survey conducted on the temporary trusses. The scanning survey started near the W2 cap beam proceeding east and stopping at or around the tower. All scanning control points were on the inboard side of the truss and bridge. The intent of scanning from the temporary trusses is to capture mainly the vertical displacement of the truss and OBG due to load transfer. Also to observe the change in transverse lateral movement of the bridge.

All scans on the truss are being conducted early in the morning around sunrise starting the shift at 6:00am. To mitigate the effects of the steel thermal expansion, point clouds obtained from the truss will be merged with control scan done under ambient conditions on June 17th and 18th. Further it is known from a recent survey that the OBG expands approximately 1" at or around 10:00am. This is the cut-off time where the scanning survey will be stopped to keep any horizontal point cloud offsets consistent.

The pre Load Transfer scanning survey was started at 6:25am and was completed at 9:15am. The ambient temperature range during the scanning survey was 56F to 62F. Similarly the steel temperature of the E-Line OBG on the top deck near the tower at the end of the survey was 98F. Conversely the bottom/side panels of the OBG and temporary truss steel remained consistent at 59F.

- Used the Trimble S8 total station to provide SFOBB project control coordinates to scan control points 402, 405, 500, 501, 503 and 504 with the assistance of Dave Korycinski. The control point occupied for all shots was on 302 (centerline, existing E2 foundation) backsighting 300 (centerline, existing E3 foundation). The measure rounds function on the total station was used to establish accurate (mostly horizontal) coordinates on the scan control points.

The survey conducted with the total station began at 6:55am and was completed at 7:50am. The ambient temperature at the time of the survey was 56F and partly cloudy conditions were observed. Wind speed measured at the existing E2 foundation was from the west at 4mph. The atmospheric pressure was 30.01"Hg. The official time of sunrise was 5:51am per weather.com.

- Began to review survey data for the Hinge A pipe beams and sleeves inside OBG lifts 14E/W. Discussed in details the particular issues with Bob Brignano.

- Began to process all of the survey data for the Shear Keys, Bearings, and OBG top deck control points. This information is critical since there are a few submittals pending prior to load transfer of the SAS bridge.

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Job Name: 04-0120F4

Inspector Name Bruce, Matt

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Thursday

### Attachment



District 4 surveyor Jeremiah Bean seen scanning on the W-Line temporary truss.



Partly cloudy conditions observed during the scanning survey from the temporary trusses.



The sun rising over the Berkeley hills looking east from the tower trussle at the start of the pre load transfer scan.



Partly cloudy conditions seen at the end of the survey with the total station from the existing E2 foundation.