



SAS Superstructure

Location: 04-SF-80-13.2 / 13.9

Client Name: CalTrans

Run date 21-Nov-14

Time 11:27 PM

Daily Diary Report by Bid Item

Contract No.: 04-0120F4

Diary #: 520 Const Calendar Day: 907 Date: 03-Mar-2012 Saturday

Inspector Name: Bruce, Matt Title: Transportation Engineer

Inspection Type: Intermittent

Shift Hours: 04:30 am 01:00 pm Break: 00:30 Over Time: 08:00

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 40 - 50 12 PM 50 - 60 4PM 50 - 60

Precipitation 0.00" Condition Sunny

Working Day [ ] If no, explain:

Diary:

Dispute

Work description.

- Phil Latasa, Sami Dauok, Michelle Chui, Daryoush Bahar, and myself checked the out to out distance for the cable strands today as Daryoush's and my measurements are tabulated below. Daryoush and I were responsible for both the north/south sidespans today. Similarly Sami and Phil were responsible for checking the north/south mainspans. Daryoush assisted me with the measurements and tabulating the data as I took all of the measurements unless otherwise noted. I used the Maletic gauge (#1) to take the out to out measurements of the cable strands.

All measurements by both crews were reported to Michelle who was stationed in the Caltrans Connex recording and analyzing the data. When all of the measurements were completed, Alex was responsible for reviewing the measurements with ABF engineer Adam Roebuck. See Michelle's diary for more details related to the acceptance or rejection of cable strand sag adjustment.

Today the digital thermometer was used to measure the ambient temperature. Wind speeds were obtained from weather.com at the time of the measurements. The steel temperature measurements were taken with the digital thermometer placed on the outer cable strand wires.

The official sunrise time per weather.com for San Francisco today was at 6:37am. The following measurements were taken of the relative sag from cable strand number 1 at the given times below:

// North Sidespan //

Time = 4:52am

Ambient Temperature = 46.9F

Condition = Clear

Wind = ENE @ 3mph

ABF Surveyor(s) = None at this time

Caltrans Engineer(s) = Matt Bruce and Daryoush Bahar

Table with 5 columns: Cable Strand (mm), Steel Temperature (F), O-O (#1) CT (mm), Theor (mm), CT Delta. Rows include strand numbers 1, 69, 70, 71, 72 and their corresponding measurements.

Comments: All cable strands were considered to be free-hanging at the time of measurement on the north



## Daily Diary Report by Bid Item

Job Name: 04-0120F4

Inspector Name Bruce, Matt

Diary #: 520

Date: 03-Mar-2012 Saturday

sidespan. I took all of the measurements while Daryoush assisted me with setting up the targets, being level, normal to cable, etc. A timber block was used on cable strand number 1 to obtain measurements where the dimension is in ( ) millimeters.

// South Sidespan //

Time = 5:29am

Ambient Temperature = 47.7F

Condition = Clear

Wind = ENE @ 4mph

ABF Surveyor(s) = Terry Denis, Mike Bonidici, and Dave Adams

Caltrans Engineer(s) = Matt Bruce and Daryoush Bahar

Cable Strand (mm)	Steel Temperature (F)	O-O (#1) CT (mm)	Theor (mm)	CT Delta
1	47.8	Baseline or Zero	78	0
69	47.0	554, 555, 561 - Ave = 557 (-61) = 496	486	+ 10
70	47.1	892 (-61) = 831	553	+ 278
71	46.9	884, 882 - Ave = 883 (-61) = 822	620	+ 202
72	47.1	903, 907 - Ave = 905	687	+ 218

Comments: All cable strands were considered to be free-hanging at the time of measurement on the south sidespan. I took all of the measurements while Daryoush assisted me with setting up the targets, being level, normal to cable, etc. A timber block was used on cable strand number 1 to obtain all of the measurements except for cable strand number 72 where the dimension is in ( ) millimeters. It should be noted that ABF survey party chief Dave Adams observed myself and Dayoush taking the measurements today at this location.

- All of the prescribed measurements were completed at 6:00am and conveyed to Michelle.
- Wrote today's diary and completed writing outstanding diaries for this week.
- Completed filling out the daily cable strand sag adjustment sheet.
- Calibrated the Maletic gauge (#1) after applying new Scotch Blue tape to the moving laser tubing/clamp which had to be taken apart.
- Began to devise a schedule for the upcoming survey work on Hinge K and the suspender brackets.