



SAS Superstructure

Location: 04-SF-80-13.2 / 13.9

Client Name: CalTrans

Run date 21-Nov-14

Time 11:28 PM

Daily Diary Report by Bid Item

Contract No.: 04-0120F4

Diary #: 515 Const Calendar Day: 903 Date: 28-Feb-2012 Tuesday

Inspector Name: Bruce, Matt Title: Transportation Engineer

Inspection Type: Intermittent

Shift Hours: 04:30 am 03:00 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 40 - 50 12 PM 40 - 50 4PM 40 - 50

Precipitation 0.21"

Condition Partly Cloudy with moderate winds

Working Day If no, explain:

Diary:

Dispute

Work description.

- Phil Latasa, Sami Dauok, Alex Schmitt, 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 Alex 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 Zach Lauria. See Alex's diary for more details related to the acceptance or rejection of cable strand sag adjustment.

Ambient temperatures were taken with the red temperature gauge. 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 6:43am. The following measurements were taken of the relative sag from cable strand number 1 at the given times below:

// South Sidespan //

Time = 4:46am

Ambient Temperature = 43.4F

Condition = Partly Cloudy

Wind = WNW @ 15mph

ABF Surveyor(s) = James Allen and Ken Woon

Caltrans Engineer(s) = Matt Bruce and Daryoush Bahar

| Cable Strand (mm) | Steel Temperature (F) | O-O (#1) CT / ABF (mm) | Theor (mm) | CT Delta |
|-------------------|-----------------------|--|------------|----------|
| 1 | 44.0 | Baseline or Zero | 78 | |
| 0 | | | | |
| 63 | 43.4 | 885, 885 - Ave = 885 (-61) = 824 / 839 | 686 | + 138 |
| 64 | 43.4 | 936, 933 - Ave = 935 (-61) = 874 / 887 | 753 | + |
| 121 | | | | |
| 65 | 43.4 | 281, 276 - Ave = 279 (-61) = 218 / 217 | 219 | -1 |



Daily Diary Report by Bid Item

Job Name: 04-0120F4

Inspector Name Bruce, Matt

Diary #: 515

Date: 28-Feb-2012 Tuesday

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 where the dimension is in () millimeters. Cable strand number 66 was floated overhead and number 67 was in the rollers. The ABF numbers above were measured by James Allen.

// North Sidespan //

Time = 5:22am

Ambient Temperature = 44.5F

Condition = Partly Cloudy

Wind = W @ 15mph

ABF Surveyor(s) = None at this time

Caltrans Engineer(s) = Matt Bruce and Daryoush Bahar

| Cable Strand (mm) | Steel Temperature (F) | O-O (#1) CT / ABF (mm) | Theor (mm) | CT Delta |
|-------------------|-----------------------|--|------------|----------|
| 1 | 44.1 | Baseline or Zero | 78 | |
| 0 | | | | |
| 63 | 43.8 | 881, 879 - Ave = 880 / 893 | 680 | + 200 |
| 64 | 43.7 | 925, 925 - Ave = 925 / 934 | 745 | + |
| 180 | | | | |
| 65 | 43.8 | 286, 346 (-61) = 285 - Ave = 286 / 275 | 230 | + 56 |

Comments: All cable strands were considered to be free-hanging at the time of measurement on the north 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 the measurement for cable strand number 65 one time, where the dimension is in () millimeters. Cable strand number 66 was floated overhead and number 67 was in the rollers. The ABF numbers above were measured by James Allen.

// North West-Loop //

Time = 6:10am

Ambient Temperature = 45.8F

Condition = Partly Cloudy

Wind = WNW @ 11mph

ABF Engineer(s) or Surveyor(s) = None at this time

Caltrans Engineer(s) = Matt Bruce and Daryoush Bahar

| Cable Strand (mm) | Steel Temperature (F) | O-O (#1Y) CT (mm) | Theor (mm) | CT Delta |
|-------------------|-----------------------|-------------------|------------|----------|
| 1 | 45.2 | Baseline or Zero | 80 | 0 |
| 62 | 45.1 | 783 (-126) = 657 | 670 | - 13 |
| 63 | 45.0 | 884 (-126) = 758 | 764 | - 6 |
| 64 | 45.2 | 933 (-61) = 872 | 859 | + 13 |
| 65 | 44.8 | 208 (-126) = 82 | 80 | + 2 |
| 66 | 45.4 | 299 (-126) = 173 | 174 | - 1 |

Comments: All cable strands were considered to be free-hanging at the time of measurement on the north west-loop. Daryoush took the measurement at this location. I recorded the data while the measurement was being taken. The () denotes the fixed timber block (by ABF) to cable strand number 1 dimension in millimeters except for cable strand number 64.

- All of the prescribed measurements were completed at 6:20am and conveyed to Alex.

- Began to process all of the surveying data gathered last week for the Hinge K Tie-Down temporary counterweight placed on the end of the W-Line YBITS bridge cantilever.

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Job Name: 04-0120F4

Inspector Name Bruce, Matt

Diary #: 515

Date: 28-Feb-2012 **Tuesday**

- Continued to write diaries for the last couple days to try and keep up.
- Calibrated both cable strand adjustment gauges (Maletic gauge #1 and Victor Tree gauge #2).
- Picked up the 61m (200') BMI steel tape from the ESC store in Concord from salesman/surveyor Mario Menesini. To reiterate this steel tape will be used to check the cable band placement along the centerline of the compacted cable.
- Began to compile all my measurements taken today on the daily cable strand sag adjustment sheets.