



SAS Superstructure

Location: 04-SF-80-13.2 / 13.9

Client Name: CalTrans

Run date 22-Nov-14

Time 4:02 PM

Daily Diary Report by Bid Item

Contract No.: 04-0120F4

Diary #: 476 Const Calendar Day: 540 Date: 26-Nov-2013 Tuesday

Inspector Name: Soheilifard, Saman Title: Transportation Engineer

Inspection Type: Continuous

Shift Hours: 07:15 am 05:30 pm Break: 00:30 Over Time: 02:00

Federal ID:

Location:

Reviewer: Awal, Mohammad Approved Date: 30-May-14 Status: Approved

04-0120F4
04-SF-80-13.2/13.9
Self-Anchored
Suspension Bridge

Weather

Temperature 7 AM 50 - 60 12 PM 50 - 60 4PM

Precipitation none Condition Rain

Working Day If no, explain:

Diary:

Dispute

Work description.

Tuesday, November 26, 2013

Pile Driving

Day 6: Impact Hammer: Piles #9 & #10

Vibratory Hammer: Piles #11 & #12

The following two outfits hired by Caltrans will be present during this pile driving operation:
Illingworth & Rodkin, Inc (Acoustic Monitoring)

Jordan Roberts
Jarred McDaniel

Garcia & Associates (Mammal Monitoring)

Phil Thorson
Adam Fox
Marina Olson

• At 7:30, Hook up to the BC;
• At 7:43, BC in water over Pile #12;
• At 7:45, Water at the 90-ft mark of the pile; Bubble curtain L. 66'-10", Water Depth 70ft;
• At 7:53, hoses connected to Bubble Curtain (BC & BC lowered to just below the water surface, meaning that the Bubble Curtain is about 3 ft above the mud line. This is not the prescribed way of running a BC and is wrong.

• At 7:58, crane was hooked up to the Impact Hammer (IH);
• At 8:13, VH on top of Pile;
• At 8:14, turn on BC;
• At 8:16, Start the IH;

Mark	Depth	Blow Count
90		No significant Blows, just taps
91	1	7
92	2	9
93	3	11
94	4	19

• At 8:19, IH done with water at the pile's 95-ft mark;
• The embedment length (EL): before IH : 90-70 = 20; After IH: 20+4 (driven) = 24 feet;

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It should be mentioned that the hammer used is a Diesel D6.223, which imparts a maximum energy of 165,000 ft-lb at a maximum Blow of 36-38.

Pile #11

- At 8:28, BC over pile;
- At 8:36, hoses connected to BC;
- At 8:37, IH on pile;
- At 8:42, BC turned on;
- At 8:42, Start the VH;

Mark	Depth	Blow Count
91	0	No significant Blows, just taps
92	1	5
93	2	6
94	3	8
95	4	7
96	5	13
97	6	20
97 ¾	6 ¾	30

-
- At 8:47, complete the IH;
- At 8:49, remove hoses;
- At 8:58, IH is placed on the barge;
- At 9:11, BC is on the deck;

Following the conclusion of driving Pile #11, I spoke to Mike Eddy in regards to Pile #8 where I recorded blow counts of 02 & 21 at best. He said that after discussing this matter with Jonathan he is no longer concerned and based on the numbers that they recorded (25 blows for the final 3/4ft) he feels comfortable with the outcome. I pointed that between Jonathan & I, our numbers vacillate between 17 & 25 for the last 2 feet and that they are not to be relied upon and adding a section is prudent. He reiterated his confidence and told me that he would think about it and if deemed necessary he will weld a section on top of Pile #8 and continue with the driving of this pile.

Dutra's plan at this time is to add a 12' section of pipe on pile #10 and continue with the driving of the pile before the day is over. At 9:30, pile #10 was pulled up 5 feet at which time it was about 3 1/2ft above template, giving the welder, Gilbert Moya enough space to access the pile.

- At 9:48, a 12-ft section was placed on top of pile #10;
- At 10:23, the fit-up was complete;
- At 12:53, All guys, but Gilbert came back to the Barge at T 1 from Barge 217 where all falsework pieces are stored;

Re-drive Pile #10

- At 12:57, pick up BC;
- At 13:01, BC over pile;
- At 13:13, hoses to BC attached;
- Water at Piles 88 ½-ft mark; Pile at 96-ft mark WRT top of beam;
- At 13:18, Grab VH;
- At 13:29, VH moved over pile;
- Pile #10 was vibrated about 5 feet before the VH was removed (from 94 ½ ft mark to the 99-ft mark.)
- At 13:32, BC turned on;
- At 13:32, Start the IH;
- At 13:38, Stop the IH;

Mark	Depth	Blow Count
99	0	No significant Blows, just taps 100
100	1	6
101	2	16

Daily Diary Report by Bid Item

Job Name: 04-0120F4 **Inspector Name:** Soheilifard, Saman **Diary #:** 476 **Date:** 26-Nov-2013 **Tuesday**

102 3 19
 103 4 30/32
 103 ¼ 4 ¼ 7/5
 Complete at 13:36

- At 13:43, Disconnect BC hoses;
- At 13:53, VH on the deck;
- At 14:02, BC on the deck;
-

NOTE: Pile #10 was stopped when no resistance was being offered by the strata and may have been stopped prematurely. I still believe that piles #8 & #10 are suspects for not having developed sufficient bearing capacity.

•At the end of the IH operation, the water climbed up to the 98 ¼ -ft mark and prior to the VH it was at about the 88-ft mark. This pile was driven another 9+ feet, 5 ½ of which by the VH and the remaining 4 by the IH. The Water Depth was sounded to be 70ft deep; therefore, the Final Embedment Length: 98-70 = 28 ft.

CCO-323 Bid Item: 001 0-BCS-ELS.323 Pier T1 Bubble Curtain System

DUTRA MATERIALS

Labor

Trade	Class	Name	RT Hrs	OT Hrs	DT Hrs	Total	Remarks	Dispute
Contractor: DUTRA MATERIALS								
Operator	OTH	STEVE FRIYER	6.00	0.00	0.00	6.00		<input type="checkbox"/>
Operator	OTH	STEVE FRIYER	2.00	0.00	0.00	2.00		<input type="checkbox"/>
Operator	OTH	STEVE FRIYER	2.00	0.00	0.00	2.00		<input type="checkbox"/>
Supervisor		dave lumsden	0.00	0.00	0.00	0.00		<input type="checkbox"/>
Piledriver	JNM	LUKE HUDSON	8.00	0.00	0.00	8.00		<input type="checkbox"/>
Piledriver	JNM	JEFF SAINZ	8.00	0.00	0.00	8.00		<input type="checkbox"/>
Piledriver	JNM	GILBERT MOYA	8.00	0.00	0.00	8.00		<input type="checkbox"/>
Piledriver	JNM	DAVID SELPA	8.00	0.00	0.00	8.00		<input type="checkbox"/>
Piledriver	JNM	SAMI TAVAKE	8.00	0.00	0.00	8.00		<input type="checkbox"/>
Piledriver	GEN	TREVER MURRAY	8.00	0.00	0.00	8.00		<input type="checkbox"/>
Piledriver	APP	ROBERT UTLEY	8.00	0.00	0.00	8.00		<input type="checkbox"/>
Operator	OTH	DAN WHEELER	8.00	0.00	0.00	8.00		<input type="checkbox"/>
Operator	OTH	STEVE FRIYER	8.00	0.00	0.00	8.00		<input type="checkbox"/>

Equipment

Equipment ID	Description	RT Hrs	OT Hrs	ST Hrs	IT Hrs	Rental Company	Remarks	Dispute
Contractor: DUTRA MATERIALS								
*E0660562							No	
		2.00	0.00	0.00	0.00			<input type="checkbox"/>
*E0650562							No	
		6.00	0.00	0.00	0.00			<input type="checkbox"/>
*E0620562							No	
		2.00	0.00	0.00	0.00			<input type="checkbox"/>

Attachment

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Job Name: 04-0120F4

Inspector Name: Soheilifard, Saman

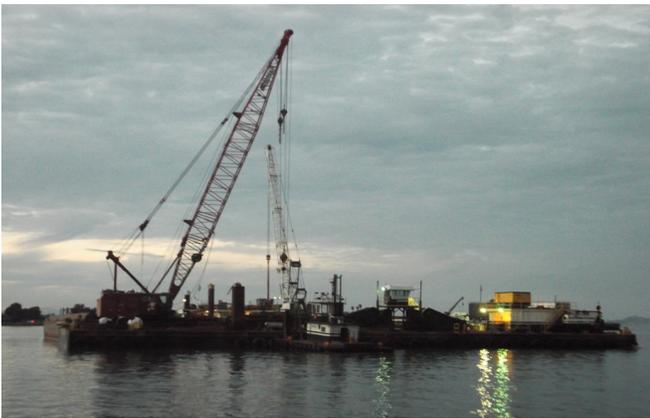
Diary #: 476

Date: 26-Nov-2013

Tuesday



AddingASectiontoPile10



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Adding A Section to Pile 10

