

Job Stamp

04-0120F4
SFOBB SAS

Const. Calendar: 870

Project Work Day No.: 1080

Date **05/01/2009**

Inspectors	Start	06:30	Stop	13:00
Hours				
Shift Hours		06:30		15:00

dkm

ASSISTANT RESIDENT ENGINEER'S

CONTRACTOR – ABFJV, Subs SDI and CMC-RS

HOURS - ITEM NO.

EQUIPMENT AND/OR LABOR:			#34 Prestressing Cast-In-Place Concrete (Pier W2)								IDLE OR DOWN	REMARKS	
Equip. #	NO. MEN	DESCRIPTION (Of Equipment or Labor)										Name	Contractor
1	1	Field Superintendent	8									Ralph Craig	SDI
2	1	Ironworker Foreman	8									Erin Jones	SDI
3	1	Ironworker Journeyman	8									Darrin Kurz	SDI
4	1	Ironworker Journeyman								8		James Carriker	SDI
5	1	Ironworker Journeyman	8									Randy Hill Jr.	SDI
6	1	Materials Technician	8									Joel Nadler	Smith Emery
HPU-E-30-10K-02	1	A-Frame Ram Support								8			SDI
HPU-D-110-3K-02	1	Hydraulic Pumping Unit								8			SDI
SPH.60.3K.06	1	Strand Pushing Unit								8			SDI
CH600-8-110	1	600 Ton Ram								8			SDI
CH820-8-03	1	820 Ton Ram								8			SDI
B-117	1	110 Ton Ram								8			SDI
B-36	1	110 Ton Ram								8			SDI
HPU-E-10K-21	1	Hydraulic Pump								8			SDI
CH150-5-4	1	150 Ton Ram								8			SDI
	1	150 Ton Ram								8			SDI
	1	Grout Mixer	8										SDI

Weather: Overcast in the morning with light rain from 9:30am to 10:30am and cool to mild temperatures, rain clouds were developing in the afternoon – Hi 63°F Low 53°F (per weather.com forecast)

Description of Operations @ W2 Cap Beam:

ABF

- Continued bushing the concrete surfaces of the W2W continuity tendon blockouts and the jacking saddle construction joint at the west end of the cap beam.
- Continued to remove W2E continuity tendon breakout forms and polystyrene grout pad breakout for the W2E Hinge K assemblies at the the west end of the cap beam.
- Assisted SDI with mobilizing grout pallets near the grout mixing equipment.

CMC-RS

- Continued to place horizontal and vertical #19 rebar at the W2W construction joint with the OBG, see Lalit's diary for additional details and labor.

SDI

- Grouted transverse tendons CBT-23 to 36 from the south end of the cap beam.
- Grouted the 91 remaining long vertical bars at W2E.

Notes:

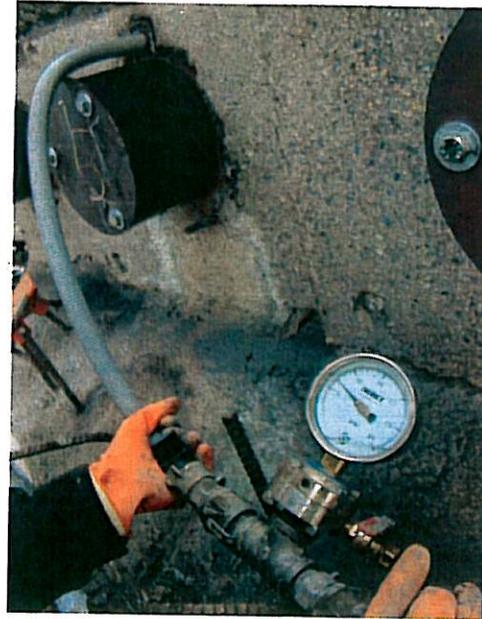
- 1) Smith Emery representative Joel Nadler was onsite and made grout cubes, tested ambient/grout temperatures and efflux times for the same tendons that Saman and myself performed the testing.
- 2) The average time to grout the transverse tendon CBT-23 to 36 was approximately 14 minutes.
- 3) Three total sets of grout cubes were made for CBT-24, 26, and VB-30 to 36. Also the ambient/grout temperatures were taken for CBT-24, 25, 26, and VB-30 to 36. The grout efflux times measured for all tendons once and twice for CBT-26 all over 11 seconds. The mud balance was used to test the specific gravity/wet unit density of the grout for CBT-25 and VB-30 to 36 had a $\gamma_w = 131$ pcf. The manufacturer estimates a wet unit density of 125 pcf for the grout per ASTM C-1090. Quiescence tests were not conducted for the reasons stated yesterday.
- 4) Saman and myself witnessed the entire operation as we watched inlet and outlet valves at both ends of the cap beam. The outlet valve wasn't closed until there was "good" grout. In a few cases water came out before the grout for roughly 10 seconds before "good" grout was seen. The inlet was then pressurized to 70 to 100 psi before closing the inlet valve. Grout came out of the top crest valve near the CL of W2E first, then at the dead end, finally grout came out of the top crest valve near the CL of W2W before recharge at the south/pressurized end. Top crest valves near CL of W2W for CBT-26 and 29 were missing. Recharge time at the south/pressurized end took a little longer for these tendons.
- 5) The grout mix today was not as thick as yesterday producing a faster grouting rate and yielding a $\gamma_w = 131$ pcf.
- 6) Overall the grout mix looked more fluid today and still was pumped at a pressure of 25 to 50 psi prior to recharge. The water tank was adjusted to compensate for being unlevel.

Office work:

- Wrote today's diary.

Inspector:

Matt Bruce *Matt Bruce* Transportation Engineer (D)



File Name:	May-01-2009 W2 Cap 004
Date:	05-01-09
By Int:	M Bruce

File Name:	May-01-2009 W2 Cap 005
Date:	05-01-09
By Int:	M Bruce

Description: SDI ironworkers grouting vertical bar VB-52 at W2E. It took 43 seconds on average to grout these ducts. After the pressure from the pump was released and the grout valve was closed the grout head dropped roughly 50 to 80mm from the hexnut grout vents.

Description: Placing grout into CBT-29 under pressure of 70psi from the south end of the cap beam.



File Name:	May-01-2009 W2 Cap 006
Date:	05-01-09
By Int:	M Bruce

File Name:	May-01-2009 W2 Cap 008
Date:	05-01-09
By Int:	M Bruce

Description: Grout coming out of the hexnut vents and provisional grout tube that was cut near the bearing plate for VB-54.

Description: SDI ironworkers covered the grouted vertical bars at W2E. The bars were covered at W2W as well since a significant rainstorm was forecasted. This was done in an attempt to prevent water from getting into the hexnut vents.