STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

Form HC-10A (Rev. 6/80)

Job Stamp
04-0120F4
SFOBB SAS

Const. Calendar Day No. 513
Project Work Day No. 723
Date 05/09/2008

Shift Hours Start 01:00 Stop 24:00
Inspector Shift 011:30 AM to 3:00 PM

ASSISTANT RESIDENT ENGINEER'S

CONTRACTOR – ABFJV

EQUIPMENT AND/OR LABOR:

Equip. #	NO. MEN	DESCRIPTION (Of Equipment or Labor)	HOURS - ITEM NO. #38 Str. Concrete, Bridge	# 48 Bar Reinforcement Steel								IDLE OR DOWN	REMARKS Name	Contractor
1	1	Gen. Foreman	8										Terry Cronk	ABF
2	1	Pile Driver	12										Tony Crieghton	ABF night
3	1	Pile Driver	12										George Mcneil	ABF night
4	1	Laborer	8										Jose Molina	ABF
5	1	Laborer	8										Rickie Campos	ABF
6	1	Crane Operator	8										Dale Thomas	ABF
7	1	Pile Driver	8										Rodney Thompson	ABF
8	1	Pile Driver J/M	8										Audre Hudson	ABF
9	1	Operator Apprentice/Forklift and Elevator	12										Douglas Greene	ABF night operator
10	1	Pile Driver/Welder	8										Harry Wheat	ABF
11	1	Elevator Operator	12										Howard Schroyer	ABF
12	1	Pile Driver	12										Nigel Lohse	ABF Foreman
13	1	Pile Driver										8	Terry Brown	ABF Gone for 2-3 months
14	1	Pile Driver	8										Darron Smalls	ABF
15	1	Pile Driver										8	Josh Menchaca	ABF off
16	1	Pile Driver	8										Tony Bragg	ABF
18	1	Pile Driver	8										Paul Mason	ABF
19	1	Pile Driver	8										Andy Adam	ABF
20	1	Pile Driver	8										Kurt Chaffion	ABF
21	1	Pile Driver	8										Jeffe Johnasen	ABF
22	1	Pile Driver Foreman	8										Leo Vego	ABF
23	1	Pile Driver	8										Henry Wheat	ABF
24	1	Pile Driver	8										Rickie Yembo	ABF
25	1	Pile Driver	12										Ken Reynolds	ABF
26	1	Iron worker	8										Tim Greenlee	ABF/RSC
	1	1st Man Lift S-125												Hertz Rental
	1	Lincoln Vantage Welding M/C 768-50-4005	8											ABF
	1	Lincoln Vantage Welding M/C 768-50-4009												ABF
	1	Lincoln Vantage Welding M/C 768-30-4032										8		Hertz Rental
	1	Lincoln Vantage Welding M/C 768-30-4014	8											Hertz Rental

REC'D '08 MAY-31 #004885
050908

	1	MQ Power Generator 220	24											ABF Main power
	1	MQ Whisper Watt 7000 549-07-5006										8		ABF
	1	MQ Whisper Watt 7000 549-20-4007										8		ABF
	1	MQ Whisper Watt 7000 549-20-4044										8		ABF
	1	Ingersoll Rand Air compressor 20-2183	8									8		ABF central
	1	Ingersoll Rand Air Compressor 006-18-4293										8		ABF
	1	Ingersoll Rand Air Compressor 185R										8		ABF Deck
	1	Ingersoll Rand Air Compressor 006-18-4297	8											ABF
	1	Ingersoll Rand Flood Lights 536-40-6831	8											ABF power
	1	Genie 541-4000N Flood Lights 536-40-7044	12											ABF deck S-E
	1	Genie 541-4000N Flood Lights 536-40-4839	12									8		ABF power
	1	Genie 541-4000N Flood Lights 536-40-4843	12									8		ABF power
	1	Genie 541-4000N Flood	12									8		ABF power
	1	Genie 541-4000N Flood	12									8		ABF power
	1	Balden Generator	24											ABF Cooling system
	1	MQ Generator Standby										24		ABF power
	1	Water Chilling System	24											ABF rental
	1	Forklift Hertz Rental 544D-10	8											ABF
	1	Pickup	2											ABF
	1	Elevator	24											ABF

Weather: Cloudy & cold morning, wind medium to high, Hi 68 F Lo 47 F, some light in the morning.

Description of Operation:

ABF continues monitoring the thermal control 24 hours a day in 2 x 12 hour shifts.

I was off in the morning.
In the afternoon at 12:30 PM, the water was running at 860 GPM. The inlet temperature was noted at 46 degrees F and the outlet temperature was at 48 degrees F. The system was operating at 17.5 psi. The system was checked to withstand pressure of 55 psi as per test of 5/5/08.

The concrete temperatures were noted as 52 C on south side, 62 C at the center of the middle wall and 55 C on the east side.

All walls were covered with blankets including all rebars projecting above the walls.

ABF continues to work on the Hinge K assembly. They relocated back the 1" plate and inserted all 76 rods successfully. They plan to move the 1st Hinge K Assembly to the top on Monday.

The following are in place for the Thermal Control of the Concrete:

- All 3 Water Pumps are operating as of the morning at 10 AM.
- There are three switch panels and one control panel.
- 6 " diameter steel piping for supply and return.
- Manifolds for each of the four walls for distributing water to various cooling pipe sets..
- Connecting the Blue and Red color 1inch diameter hoses to the manifolds and to the cooling pipes in the walls.
- A water Chiller with its own compressor, power generator etc. all installed on a flat bed trailer, was set under the north side of the W2 Cap False Work, just east of the Storage Tank. Connections were made from the tank to the supply pump to the chiller and return to the tank.

- Vertical steel pipes for the supply and return.
- 4 sets of Manifolds at the top.
- PVC supply & return pipes in each wall at approximately 2' o/c.
- Two Generators to supply power to the Pumps. One generator will supply the power and the other is one on the standby.
- ABF tied and secured all the piping and installed thrust blocks, lateral ties and supports.

In addition to two generators as part of the cooling system, ABF has three Generators on the Standby for pumps 1, 2 and 3 and a 4th one for the Chiller.

CT Lab in Sacramento reported the 3 day breaks at 6490 psi and 6120 psi. The average strength comes to 6305 psi.

ABF's surveyors gave duct layout.

ABF surveyors laid out the base plate locations for Hinge K support frames.

ABF set up the Hinge K Support Frames inside and outside.

Additional Work on/off site:

(a) The Temporary Tower Foundation work continues. Four piles are visibly done. The driving barge is gone.

(b) CC Myers continues to work for the W3 and Temporary Foundations in the vicinity.

Inspector:

Lalit Mathur _____ Trans Engineer (D)/Asst. Struct. Rep

5-9-08

Placement: W2 Pour 2 - SCC

Placed on: 06-MAY-08 : 2:00 AM Start

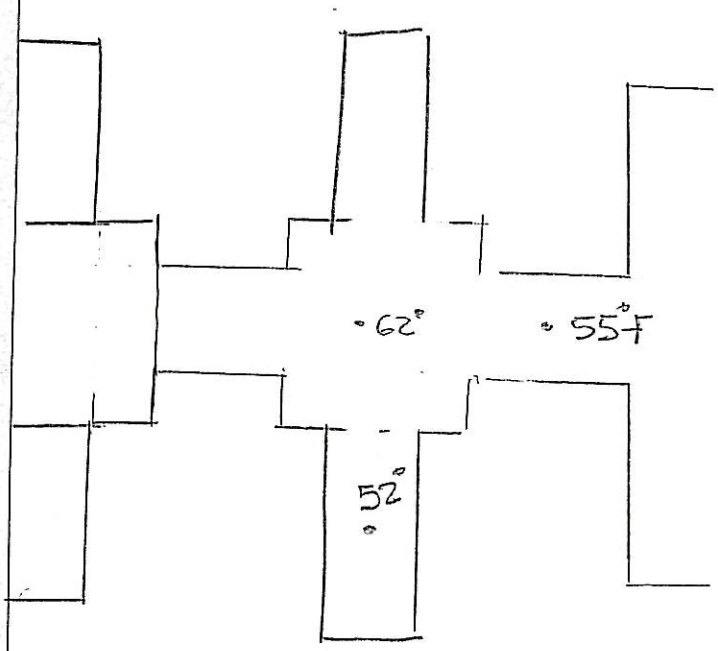
Concrete Mix: SCC with Ocra aggregates (see the 7-10-07 thermal plan)
Cemex Mix Design 160035

Hour	Air Temperature, °C	Center Temperature, °C	Surface Temperature, °C	2nd Surface Temperature, °C	Measured Maximum Temp. Difference, °C	Elapsed (Clock) Time, days	Calculated Concrete Age, days: Surface Sensor	Calculated Concrete Age, days: 2nd Surface Sensor	Estimated In-Place Compressive Strength, psi: Surface Sensor	Estimated In-Place Compressive Strength, psi: 2nd Surface Sensor	Calculated Temperature Difference Limit (from the Estimated Compressive Strength), °C: Surface Sensor	Calculated Temperature Difference Limit (from the Estimated Compressive Strength), °C: 2nd Surface Sensor	Combined Temp. Diff. Limit, °C
0	10	10	10	10	0.0	0.0	0.0	0.0	0	0	9.80	9.80	9.80
1	11	14	11	12	3.0	0.0	0.0	0.0	57	59	9.80	9.80	9.80
2	12	23	23	21	2.0	0.1	0.1	0.1	147	147	9.80	9.80	9.80
3	12	23	23	22	1.0	0.1	0.1	0.1	268	261	9.80	9.80	9.80
4	12	23	24	22	1.0	0.1	0.1	0.1	390	374	9.80	9.80	9.80
5	12	24	27	23	1.0	0.2	0.2	0.2	519	489	9.80	9.80	9.80
6	13	24	30	25	-1.0	0.3	0.2	0.2	661	609	11.10	10.69	10.69
7	13	25	32	27	-2.0	0.3	0.3	0.3	813	737	12.25	11.69	11.69
8	12	26	34	29	-3.0	0.3	0.4	0.3	970	873	13.36	12.69	12.69
9	12	29	36	31	-2.0	0.4	0.4	0.4	1133	1014	14.49	13.69	13.69
10	12	32	38	33	-1.0	0.4	0.5	0.4	1300	1162	15.56	14.68	14.68
11	13	36	40	35	1.0	0.5	0.6	0.5	1472	1316	16.60	15.66	15.66
12	14	38	41	36	2.0	0.5	0.7	0.6	1645	1472	17.60	16.60	16.60
13	15	40	43	38	2.0	0.5	0.7	0.6	1820	1631	18.54	17.52	17.52
14	17	42	44	40	2.0	0.6	0.8	0.7	1995	1793	19.45	18.40	18.40
15	17	44	46	41	3.0	0.6	0.9	0.8	2171	1957	20.30	19.25	19.25
16	17	45	46	42	3.0	0.7	1.0	0.9	2345	2121	21.11	20.06	20.06
17	16	46	47	43	3.0	0.7	1.1	1.0	2515	2283	21.87	20.83	20.83
18	14	48	48	45	3.0	0.8	1.2	1.0	2682	2446	22.59	21.57	21.57
19	14	49	49	46	3.0	0.8	1.3	1.1	2848	2609	23.27	22.28	22.28
20	14	50	50	46	4.0	0.8	1.3	1.2	3011	2768	23.92	22.95	22.95
21	12	51	50	47	4.0	0.9	1.4	1.3	3170	2924	24.53	23.58	23.58
22	11	52	51	47	5.0	0.9	1.5	1.4	3325	3077	25.11	24.17	24.17
23	11	53	51	48	5.0	1.0	1.6	1.5	3476	3226	25.66	24.74	24.74
24	10	54	51	48	6.0	1.0	1.7	1.6	3622	3372	26.18	25.28	25.28
25	10	54	52	49	5.0	1.0	1.8	1.7	3764	3514	26.67	25.79	25.79
26	10	55	52	49	6.0	1.1	1.9	1.8	3902	3653	27.14	26.28	26.28
27	10	55	53	49	6.0	1.1	2.0	1.8	4036	3787	27.59	26.75	26.75
28	10	56	53	50	6.0	1.2	2.1	1.9	4167	3917	28.03	27.20	27.20
29	11	56	53	50	6.0	1.2	2.2	2.0	4293	4045	28.44	27.62	27.62
30	12	56	53	50	6.0	1.3	2.3	2.1	4414	4168	28.83	28.03	28.03
31	12	57	53	50	7.0	1.3	2.4	2.2	4531	4287	29.20	28.42	28.42
32	12	57	54	51	6.0	1.3	2.5	2.3	4645	4403	29.56	28.79	28.79
33	13	57	54	51	6.0	1.4	2.6	2.4	4755	4516	29.91	29.15	29.15
34	13	58	54	51	7.0	1.4	2.7	2.5	4862	4625	30.24	29.50	29.50
35	15	58	54	51	7.0	1.5	2.8	2.6	4965	4730	30.55	29.83	29.83
36	16	59	54	51	8.0	1.5	2.9	2.7	5064	4832	30.85	30.14	30.14
37	15	59	54	52	7.0	1.5	3.0	2.8	5159	4931	31.14	30.45	30.45
38	16	59	55	52	7.0	1.6	3.1	2.9	5252	5027	31.42	30.74	30.74
39	17	59	55	52	7.0	1.6	3.2	3.0	5342	5120	31.69	31.03	31.03
40	15	60	55	53	7.0	1.7	3.4	3.1	5429	5211	31.95	31.30	31.30
41	12	60	55	53	7.0	1.7	3.5	3.2	5512	5300	32.20	31.56	31.56
42	12	60	55	53	7.0	1.8	3.6	3.3	5593	5385	32.43	31.82	31.82
43	12	60	55	53	7.0	1.8	3.7	3.4	5670	5467	32.66	32.06	32.06
44	10	60	55	53	7.0	1.8	3.8	3.5	5745	5546	32.88	32.30	32.30
45	10	60	55	53	7.0	1.9	3.9	3.6	5818	5623	33.09	32.52	32.52
46	10	61	55	53	8.0	1.9	4.0	3.7	5887	5697	33.29	32.74	32.74
47	10	61	55	53	8.0	2.0	4.1	3.8	5954	5768	33.49	32.95	32.95
48	9	61	55	53	8.0	2.0	4.2	3.9	6019	5837	33.67	33.15	33.15
49	9	61	55	52	9.0	2.0	4.3	4.0	6081	5903	33.85	33.34	33.34
50	10	61	55	52	9.0	2.1	4.4	4.1	6142	5966	34.02	33.52	33.52
51	9	61	55	52	9.0	2.1	4.5	4.2	6200	6026	34.19	33.69	33.69
52	10	61	55	52	9.0	2.2	4.6	4.3	6256	6085	34.35	33.86	33.86
53	10	62	55	52	10.0	2.2	4.7	4.4	6310	6142	34.50	34.02	34.02
54	10	62	55	51	11.0	2.3	4.8	4.5	6363	6197	34.65	34.18	34.18
55	11	62	55	51	11.0	2.3	4.9	4.6	6413	6249	34.79	34.33	34.33
56	12	62	54	51	11.0	2.3	5.0	4.7	6462	6300	34.92	34.47	34.47
57	12	62	54	51	11.0	2.4	5.1	4.8	6508	6348	35.05	34.61	34.61
58	14	62	54	51	11.0	2.4	5.2	4.9	6553	6396	35.17	34.74	34.74
59	14	61	54	51	10.0	2.5	5.3	5.0	6596	6442	35.29	34.87	34.87
60	15	61	54	51	10.0	2.5	5.4	5.1	6638	6488	35.41	34.99	34.99
61	14	61	54	51	10.0	2.5	5.5	5.2	6679	6529	35.52	35.11	35.11
62	13	61	54	51	10.0	2.6	5.6	5.3	6718	6571	35.63	35.23	35.23
63	12	61	54	51	10.0	2.6	5.7	5.4	6756	6611	35.73	35.34	35.34
64	12	61	54	51	10.0	2.7	5.8	5.5	6793	6651	35.83	35.44	35.44
65	11	61	54	51	10.0	2.7	5.9	5.6	6829	6689	35.93	35.55	35.55
66	10	60	54	51	9.0	2.8	6.0	5.7	6863	6725	36.02	35.65	35.65
67	10	60	53	51	9.0	2.8	6.1	5.7	6895	6761	36.11	35.75	35.75
68	10	60	53	50	10.0	2.8	6.2	5.8	6928	6798	36.20	35.84	35.84
69	10	60	53	50	10.0	2.9	6.3	5.9	6959	6829	36.28	35.93	35.93
70	9	60	53	50	10.0	2.9	6.4	6.0	6989	6861	36.36	36.02	36.02
71	9	60	53	50	10.0	3.0	6.5	6.1	7018	6892	36.44	36.10	36.10
72	9	60	53	50	10.0	3.0	6.6	6.2	7047	6922	36.52	36.18	36.18

Do Not Modify These

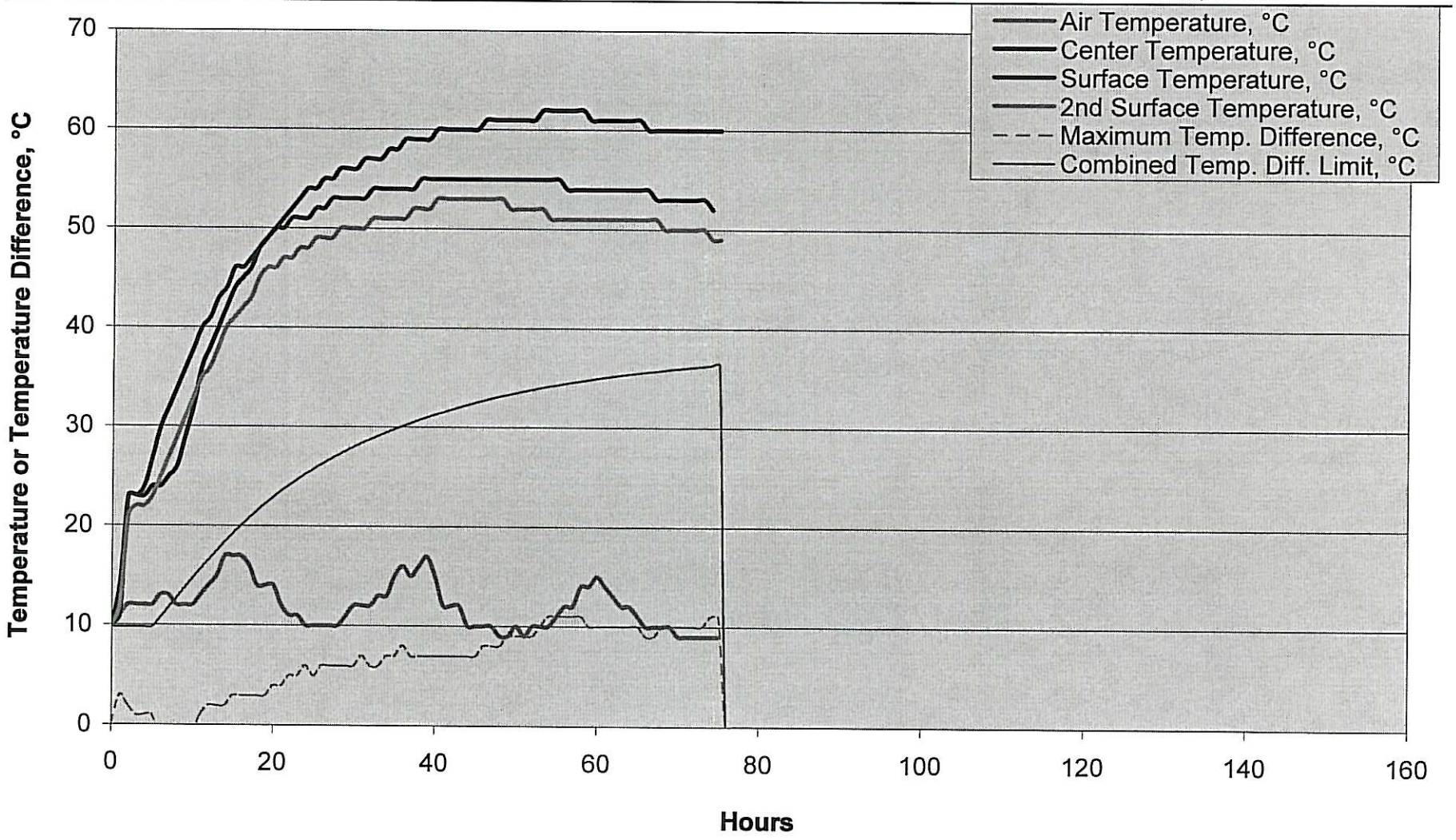
Coefficient	SCC
A	6981.821747
B	0.396893024
C	3518.501848
D	0.027312079

a	1.01E-18
b	-4.50E-14
c	4.93E-10
d	-3.48E-06
e	1.81E-02
f	9.41E+00



860 GPM
INLET TEMP 45° F
OUTLET TEMP. 48° F.
WATER PRESSURE 17.5 PSI

Placement: W2 Pour 2 - SCC

Placed on: 06-MAY-08 : 2:00 AM Start

Concrete Mix: SCC with Ocra aggregates (see the 7-10-07 thermal plan)
Cemex Mix Design 160035