STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

HC-10A (Rev. 6/80)

Job Stamp
04-0120F4
SFOBB SAS

Report No. 492
Project Work Day No. 702
Date **18-APR-2008**
Shift Hours Start 06:30 Stop 15:00

ASSISTANT RESIDENT ENGINEER'S **CONTRACTOR – ABFJV**

Weather: Windy, 51°-62°

EQUIPMENT AND/OR LABOR:

Equip. #	NO. MEN	DESCRIPTION (Of Equipment or Labor)	HOURS - ITEM NO. Item #8 - TOTAL HOURS										REMARKS	
D12-261	1	Manitowoc Crane	7											
L-270	-	D185Q Sullivan Air Compressor	IDLE											
9831 7W89831	2	Chevy 3500 Pick Up Truck	7										Traylor Dutra	
30-196	-	Power Generator	IDLE											
7-154	-	CAT-IT28B Loader	7											
246-01-6015	1	John Deer 270 Excavator	IDLE											
		9940 lbs Vertical Drill	IDLE											
DR-13	4	Man Basket Drill Platform	7											
6F78374	2	Ford F550 Pick Up Truck	7										Drill Tech	
7R24999	3	Ford F150 Pick Up Truck	7										Drill Tech	
Traylor Dutra	1	Ron Linsday (FOR)	7											
Traylor Dutra	1	Bill White (OE)	7											
Traylor Dutra	1	Ken White (OE)	7											
Traylor Dutra	1	Randall Lesley (PLDR)	7											
Traylor Dutra	1	Richard Hiebert Jr. (PLDR)	7											
Drill TecH	1	Brad Middleton	7											
Drill Tech	1	Luis Martinez	7											
Drill Tech	1	Gerardo Trujillo	7											
Drill Tech	1	Ulises Aguilar	7											
Drill Tech	1	Sixto Agurre	7											

Description of Operation:

- Field Visit, Arrived at Foundations A and B at 6:30am
  - Foundation A1:
    - Drill Tech performed proof test on all vertical micropiles 1-6. Reference the attached testing sheets for results on Micropiles 1-3 & 5-6; see Abdikarim Ali's diary for results of Micropile 4.

REC'D '08 JUN-28 #005259

- Foundation B-1:
  - Ron Linsday, Manuel Reyes, and Brad Middleton went down in the man basket and spray painted where the remaining 3 rock bolts will be installed. Drill Tech then drilled and installed the 3 rock bolts.
- Traylor Dutra began installing wood fabricated platform between the W2 base slab and A-1

- Sent in SUB 399R4, 121R7, 225R10

Inspector:

Gina Rizzardo Gina Rizzardo Transportation Engineer/Assistant Structure Rep.

DRILL TECH DRILLING & SHORING INC.
2200 Wymore Way, Antioch, CA 94509
P:(925)978-2060/F:(925)-978-2063/CSL#745354

PILE CAP A1 - VERTICAL

Max. Tension Load: 1100 kN
Design Test Load (T): 827.1 kN

Date Drilled:
Date Grouted:
Date Tested: 4/18/08

Project: Oakland Bay Bridge
Location: East Span
Pile Number: 1 - BEGIN 8:15 AM
Foreman: BRAD MIDDLETON
Job No: 749
Contract No: 04-0120F4
Ram Number: DT-600-12-1
Gauge Number: B / DT-600-12-1
Calibration: 8.19

PROOF TEST

Load Level	Load(KN)	Load(Kips)	Gauge (psi)	Hold Time	Elong. (in.)		RESIDUAL	
AL=0.10T	82.7	18.6	152	Until Stable	0	0	0.109	0.117
0.25T	206.8	46.5	381	Until Stable	0.039	0.044	0.137	0.154
0.50T	413.5	93.0	761	Until Stable	0.088	0.098	0.180	0.209
0.75T	620.3	139.4	1142	Until Stable	0.141	0.155	0.222	0.246
1.00T	827.1	185.9	1523	Until Stable	0.196	0.215	0.270	0.307
1.20T	992.5	223.1	1827	Until Stable	0.243	0.266	0.281	0.309
1.33T(Creep)	1100.0	247.3	2025	See Below	0.275	0.301	-	

10 Min. Creep Test (1.33T)

START 8:17 AM

Time	Movement	
1 Min.	0.277	0.304
2 Min.	0.276	0.304
3 Min.	0.277	0.306
4 Min.	0.280	0.309
5 Min.	0.282	0.311
7 Min.	0.283	0.312
10 Min.	0.284	0.313
Difference	0.007	0.009

< 0.04 → NO CREEP TEST REQUIRED

1 Hr. Creep Test (if required)*

Time	Movement
15 Min.	
20 Min.	
25 Min.	
30 Min.	
45 Min.	
60 Min.	
Difference	

* If load of 1.33T cannot be maintained for 10 minutes with 0.04 inches or less movement, the 1.33T load shall be maintained for an additional 50 minutes (1.0 hour creep test)

Soil Type:
Drill Hole Dia.:
Depth of Ground Water:
Drill Hole Depth:
Bonded Length:
Unbonded Length:
Comments: INSPECTOR: G. RIZZARDO

NO NOTICEABLE CRACKING OR UNLEVELING.

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PILE CAP A1 - VERTICAL

Max. Tension Load: 1100 kN
Design Test Load (T): 827.1 kN

Date Drilled:
Date Grouted:
Date Tested: 4/18/08

Project: Oakland Bay Bridge
Location: East Span
Pile Number: 2 - BEGIN 8:55 AM
Foreman: BRAD MIDDLETON
Job No: 749
Contract No: 04-0120F4
Ram Number: DT-600-12-1
Gauge Number: B / DT-600-12-1
Calibration: 8:19

PROOF TEST

Load Level	Load(KN)	Load(Kips)	Gauge (psi)	Hold Time	Elong. (in.)		RESIDUAL	
AL=0.10T	82.7	18.6	152	Until Stable	0	0	0.083	0.096
0.25T	206.8	46.5	381	Until Stable	0.023	0.027	0.117	0.128
0.50T	413.5	93.0	761	Until Stable	0.083	0.099	0.169	0.186
0.75T	620.3	139.4	1142	Until Stable	0.138	0.150	0.222	0.240
1.00T	827.1	185.9	1523	Until Stable	0.197	0.212	0.266	0.283
1.20T	992.5	223.1	1827	Until Stable	0.247	0.262	0.286	0.303
1.33T(Creep)	1100.0	247.3	2025	See Below	0.283	0.299	—	—

10 Min. Creep Test (1.33T)

Time	Movement		8:57 AM
1 Min.	0.283	0.300	
2 Min.	0.285	0.302	
3 Min.	0.285	0.303	
4 Min.	0.286	0.304	
5 Min.	0.286	0.304	
7 Min.	0.287	0.305	
10 Min.	0.287	0.305	
Difference	0.005	0.005	< 0.04

SO NO 1 HR. CREEP TEST REQUIRED

1 Hr. Creep Test (if required)*

Time	Movement
15 Min.	
20 Min.	
25 Min.	
30 Min.	
45 Min.	
60 Min.	
Difference	

* If load of 1.33T cannot be maintained for 10 minutes with 0.04 inches or less movement, the 1.33T load shall be maintained for an additional 50 minutes (1.0 hour creep test)

Soil Type:
Drill Hole Dia.:
Depth of Ground Water:
Drill Hole Depth:
Bonded Length:
Unbonded Length:
Comments: INSPECTOR: G. TRIZZALDO

HAIRLINE CRACKS AROUND BASE OF MICROPILE

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PILE CAP A1 - VERTICAL

Max. Tension Load: 1100 kN
Design Test Load (T): 827.1 kN

Date Drilled:
Date Grouted:
Date Tested: 4/10/08

Project: Oakland Bay Bridge
Location: East Span
Pile Number: 3 - BEGIN 9:27 AM
Foreman: BRAD MIDDLETON
Job No: 749
Contract No: 04-0120F4
Ram Number: DT-600-12-1
Gauge Number: B / DT-600-12-1
Calibration: 8.19

PROOF TEST

Load Level	Load(KN)	Load(Kips)	Gauge (psi)	Hold Time	Elong. (in.)		RESIDUAL	
AL=0.10T	82.7	18.6	152	Until Stable	0	0	0.077	0.056
0.25T	206.8	46.5	381	Until Stable	0.025	0.023	0.111	0.090
0.50T	413.5	93.0	761	Until Stable	0.074	0.072	0.157	0.134
0.75T	620.3	139.4	1142	Until Stable	0.123	0.116	0.190	0.164
1.00T	827.1	185.9	1523	Until Stable	0.173	0.160	0.230	0.204
1.20T	992.5	223.1	1827	Until Stable	0.215	0.199	0.248	0.221
1.33T(Creep)	1100.0	247.3	2025	See Below	0.246	0.224	—	—

10 Min. Creep Test (1.33T)

Time	Movement		9:30 AM
1 Min.	0.248	0.225	
2 Min.	0.247	0.224	
3 Min.	0.249	0.225	
4 Min.	0.249	0.225	
5 Min.	0.250	0.225	
7 Min.	0.251	0.225	
10 Min.	0.251	0.226	
Difference	0.002	0.001	< 0.04

1 Hr. Creep Test (if required)*

Time	Movement
15 Min.	
20 Min.	
25 Min.	
30 Min.	
45 Min.	
60 Min.	
Difference	

* If load of 1.33T cannot be maintained for 10 minutes with 0.04 inches or less movement, the 1.33T load shall be maintained for an additional 50 minutes (1.0 hour creep test)

Soil Type:
Drill Hole Dia.:
Depth of Ground Water:
Drill Hole Depth:
Bonded Length:
Unbonded Length:
Comments: INSPECTOR: G. RIZZARDO
NO NOTICEABLE CRACKING OR UNLEVELING

DRILL TECH DRILLING & SHORING INC.
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PILE CAP A1 - VERTICAL

Max. Tension Load: 1100 kN
Design Test Load (T): 827.1 kN

Date Drilled:
Date Grouted:
Date Tested: 4/10/08

Project: Oakland Bay Bridge
Location: East Span
Pile Number: 6 - BEGIN 9.58 AM
Foreman: BRAD MIDDLETON
Job No: 749
Contract No: 04-0120F4
Ram Number: DT-600-12-1
Gauge Number: B / DT-600-12-1
Calibration: 8.19

PROOF TEST

Load Level	Load(KN)	Load(Kips)	Gauge (psi)	Hold Time	Elong. (in.)		RESIDUAL	
AL=0.10T	82.7	18.6	152	Until Stable	0	0	0.095	0.110
0.25T	206.8	46.5	381	Until Stable	0.043	0.043	0.130	0.150
0.50T	413.5	93.0	761	Until Stable	0.0910	0.100	0.181	0.198
0.75T	620.3	139.4	1142	Until Stable	0.148	0.156	0.213	0.231
1.00T	827.1	185.9	1523	Until Stable	0.197	0.208	0.251	0.269
1.20T	992.5	223.1	1827	Until Stable	0.236	0.250	0.273	0.290
1.33T(Creep)	1100.0	247.3	2025	See Below	0.266	0.280	—	—

10 Min. Creep Test (1.33T)

10:01

Time	Movement	
1 Min.	0.267	0.284
2 Min.	0.268	0.285
3 Min.	0.270	0.287
4 Min.	0.270	0.287
5 Min.	0.271	0.288
7 Min.	0.271	0.289
10 Min.	0.273	0.290
Difference	0.006	0.006

1 Hr. Creep Test (if required)*

Time	Movement
15 Min.	
20 Min.	
25 Min.	
30 Min.	
45 Min.	
60 Min.	
Difference	

* If load of 1.33T cannot be maintained for 10 minutes with 0.04 inches or less movement. the 1.33T load shall be maintained for an additional 50 minutes (1.0 hour creep test)

Soil Type:
Drill Hole Dia.:
Depth of Ground Water:
Drill Hole Depth:
Bonded Length:
Unbonded Length:
Comments: INSPECTOR: G. TREADWOOD

NO NOTICEABLE CRACKING OR UNLEVELING

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PILE CAP A1 - VERTICAL

Max. Tension Load: 1100 kN
Design Test Load (T): 827.1 kN

Date Drilled:
Date Grouted:
Date Tested: 4/10/08

Project: Oakland Bay Bridge
Location: East Span
Pile Number: 5 - BEGIN 10:25 AM
Foreman: BRAD MIDDLETON
Job No: 749
Contract No: 04-0120F4
Ram Number: DT-600-12-1
Gauge Number: B / DT-600-12-1
Calibration: 8.19

PROOF TEST

Load Level	Load(KN)	Load(Kips)	Gauge (psi)	Hold Time	Elong. (in.)		RESIDUAL	
AL=0.10T	82.7	18.6	152	Until Stable	0	0	0.086	0.70
0.25T	206.8	46.5	381	Until Stable	0.025	0.018	0.114	0.098
0.50T	413.5	93.0	761	Until Stable	0.077	0.043	0.170	0.147
0.75T	620.3	139.4	1142	Until Stable	0.128	0.111	0.204	0.180
1.00T	827.1	185.9	1523	Until Stable	0.177	0.158	0.245	0.220
1.20T	992.5	223.1	1827	Until Stable	0.224	0.203	0.262	0.236
1.33T(Creep)	1100.0	247.3	2025	See Below	0.255	0.232	—	—

10 Min. Creep Test (1.33T) 10:28

Time	Movement	
1 Min.	0.260	0.236
2 Min.	0.260	0.236
3 Min.	0.262	0.238
4 Min.	0.263	0.239
5 Min.	0.265	0.240
7 Min.	0.266	0.241
10 Min.	0.267	0.241
Difference	0.007	0.005

1 Hr. Creep Test (if required)*

Time	Movement
15 Min.	
20 Min.	
25 Min.	
30 Min.	
45 Min.	
60 Min.	
Difference	

* If load of 1.33T cannot be maintained for 10 minutes with 0.04 inches or less movement. the 1.33T load shall be maintained for an additional 50 minutes (1.0 hour creep test)

Soil Type:
Drill Hole Dia.:
Depth of Ground Water:
Drill Hole Depth:
Bonded Length:
Unbonded Length:
Comments: INSPECTOR: G. RIZZAYDO

NO NOTICEABLE CRACKING OR UNLEVELING