VSI *Inspections, L.L.C.*

PILE LOAD TEST

Report No: LP4627092011

Project: 824 Oak Harbor
Job No: VSI 4627
Client: Crescent Foundations
Contractor: Chris Witty

Date: 9-20-2011

Material: Four (4) class 5 treated timber piles 40 ft long were driven as a probe piles on 9-12-2011. Four piles were driven adjacent to the test pile as the reactor piles. An attached log of the probe pile(s) reflects the length of the pile(s), penetration in feet, and the blows per foot.

Procedure: The test pile was conducted using a 50-ton capacity hydraulic jack with a 10,000 PSI calibrated pressure gauge. The jack was interposed between a bearing plate on top of the pile and the reaction girder which was secured by four anchor piles as outlined in ASTM D 1143. The apparatus used to measure settlement consisted of a surveyor's level, an established benchmark and a scale fixed on the butt of the test pile and read to the nearest .01 inch.

Equipment: The test pile was driven with a conventional crawler type crane with fixed leads and a number 2 air hammer rated to deliver approximately 7,500 ft/lbs per blow.

Loading Sequence: The pile was loaded in increments of 2.5 tons, with each increment being held free of movement for one hour before applying each succeeding increment. The pile was loaded per ASTM D 1143. Upon completion, the load was released in four equal decrements and held for .25 hour before release of each succeeding decrement.

Remarks: The total uplift on the left reactor was 0.03 inches and on the right reactor 0.05 inches.
Probe pile 2 was chosen as the test pile.

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Project: 824 Oak Harbor Date: 9-20-2011

Conclusion: The test performed determines the load capacity of a vertical pile under static axial compressive load. Method used is the Constant Time Interval Test.

As determined by ASTM D1143 the safe bearing capacity of the test pile shall be defined as 50% of the failure load.

Failure as defined by ASTM D1143 is the load at which rapid continuing, progressive movement occurs, or at which the total axial movement exceeds 15% of the pile diameter.

Based on the field data gathered during this procedure, it has been determined that the test pile held 30 tons at which time the test was terminated. It is therefore recommended that the design load for the job pile of 10 tons be deemed acceptable.

Note: Always check with the designer and/or engineer as well as all building codes for piling criteria that may apply before proceeding with the acceptable weights of this test.

D. Sullivan

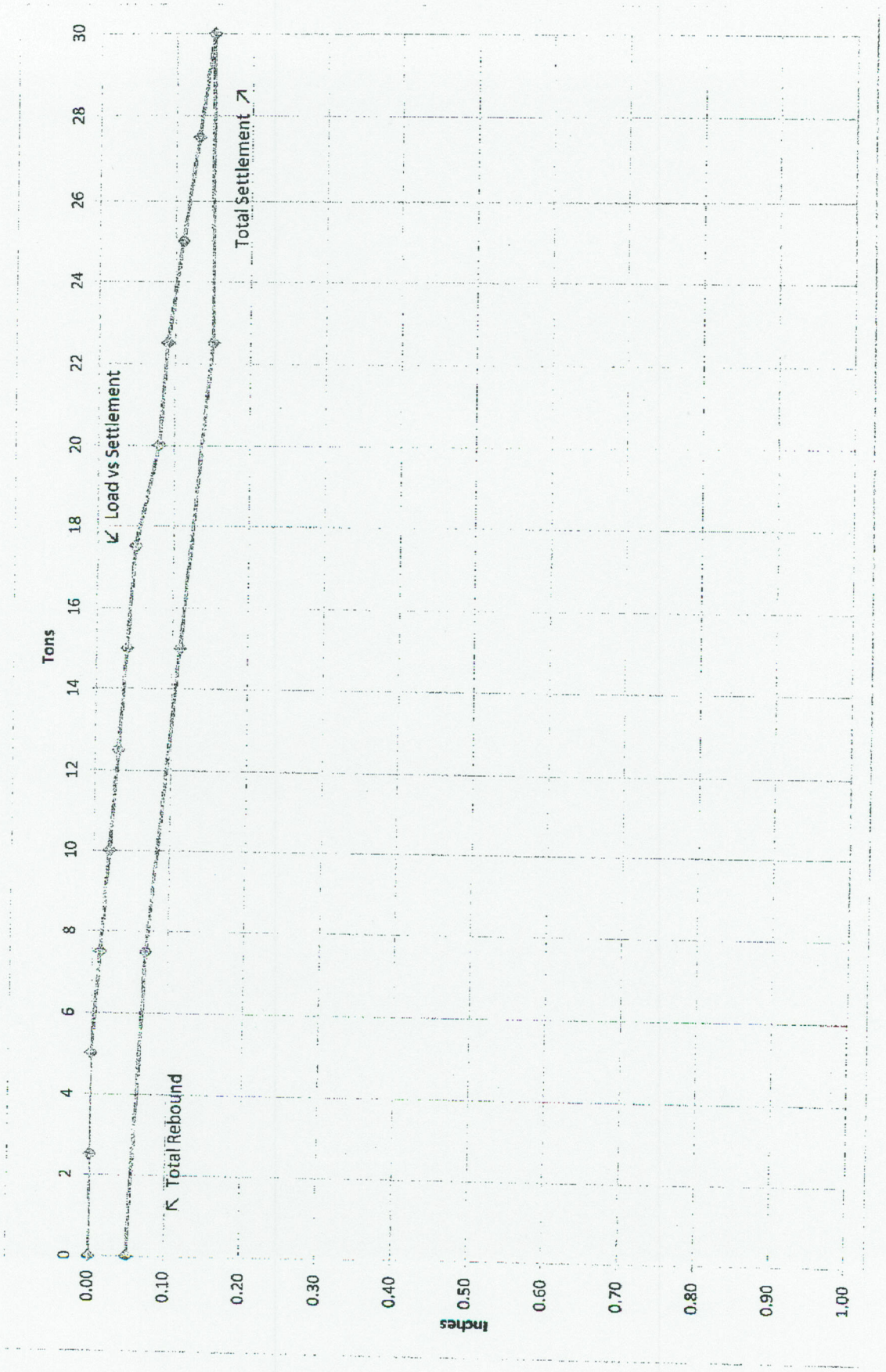
VSI Inspection, LLC

VSI 4627

Test Pile Penetration In Feet: 30
Time From Driving To Testing: 8 Days

Time Hours	Applied Load Tons	Total Load Tons	Settlement Inches	Total Settlement	Increments
0:00	0	0	0	0	
0:00	2.5	2.5	0	0	1st
1:00	0	2.5	0	0	
1:00	2.5	5	0	0	2nd
2:00	0	5	0	0	
2:00	2.5	7.5	0.01	0.01	3rd
3:00	0	7.5	0	0.01	
3:00	2.5	10	0.01	0.02	4th
4:00	0	10	0	0.02	
4:00	2.5	12.5	0.01	0.03	5th
5:00	0	12.5	0	0.03	
5:00	2.5	15	0.01	0.04	6th
6:00	0	15	0	0.04	
6:00	2.5	17.5	0.01	0.05	7th
7:00	0	17.5	0	0.05	
7:00	2.5	20	0.02	0.07	8th
8:00	0	20	0.01	0.08	
8:00	2.5	22.5	0.01	0.09	9th
9:00	0	22.5	0	0.09	
9:00	2.5	25	0.01	0.1	10th
10:00	0	25	0.01	0.11	
10:00	2.5	27.5	0.01	0.12	1th
11:00	0	27.5	0.01	0.13	
11:00	2.5	30	0.01	0.14	12th
12:00	0	30	0.01	0.15	

Load Test
VSI 4627



Pile Driving Log

Project Name: 824 Oak Harbor
Pile Driver: Crescent Foundations
Hammer Type: Number 2

Date: 9-12-2011
Job #: VSI 4627
Tech: M Hano

Test Pile No: 1		
Tip size: 6.0	Butt size @ 3' from end: 8.25	Length: 40'
Location: See attached map		

Penetration in feet	Blow/ft	Penetration in feet	Blow/ft	Penetration in feet	Blow/ft
1	6				
2	5				
3	5				
4	5				
5	6				
6	7				
7	9				
8	10				
9	12				
10	11				
11	8				
12	8				
13	10				
14	11				
15	12				
16	10				
17	9				
18	11				
19	11				
20	14				
21	15				
22	15				
23	18				
24	18				
25	20				

Pile Driving Log

Project Name: 824 Oak Harbor
Pile Driver: Crescent Foundations
Hammer Type: Number 2

Date: 9-12-2011
Job #: VSI 4627
Tech: M Hano

Test Pile No: 2		
Tip size: 6.25	Butt size @ 3' from end: 8.75	Length: 40'
Location: See attached map		

Penetration in feet	Blow/ft	Penetration in feet	Blow/ft	Penetration in feet	Blow/ft
1	2				
2	2				
3	2				
4	3				
5	3				
6	4				
7	5				
8	5				
9	6				
10	5				
11	7				
12	8				
13	9				
14	9				
15	8				
16	7				
17	8				
18	9				
19	10				
20	11				
21	10				
22	10				
23	10				
24	11				
25	12				
26	11				
27	12				
28	12				
29	13				
30	12				

Pile Driving Log

Project Name: 824 Oak Harbor
Pile Driver: Crescent Foundations
Hammer Type: Number 2

Date: 9-12-2011
Job #: VSI 4627
Tech: M Hano

Test Pile No: 3		
Tip size: 6.0	Butt size @ 3' from end: 8.25	Length: 40'
Location: See attached map		

Penetration in feet	Blow/ft	Penetration in feet	Blow/ft	Penetration in feet	Blow/ft
1	2				
2	3				
3	3				
4	4				
5	5				
6	7				
7	9				
8	9				
9	10				
10	9				
11	7				
12	6				
13	5				
14	7				
15	9				
16	18				
17	17				
18	16				
19	15				
20	17				
21	16				
22	15				
23	15				
24	17				
25	19				

Pile Driving Log

Project Name: 824 Oak Harbor
Pile Driver: Crescent Foundations
Hammer Type: Number 2

Date: 9-12-2011
Job #: VSI 4627
Tech: M Hano

Test Pile No: 4		
Tip size: 6.0	Butt size @ 3' from end: 8.75	Length: 40'
Location: See attached map		

Penetration in feet	Blow/ft	Penetration in feet	Blow/ft	Penetration in feet	Blow/ft
1	4				
2	5				
3	5				
4	5				
5	6				
6	8				
7	10				
8	11				
9	12				
10	11				
11	13				
12	14				
13	15				
14	14				
15	17				
16	18				
17	19				
18	19				
19	19				
20	17				
21	16				
22	17				
23	17				
24	21				
25	21				
26	19				
27	21				

Pile Driving Log

Project Name: 824 Oak Harbor Date: 9-12-2011

Pile Driver: Crescent Foundations VSI 4627

Hammer Type Number 2 Tech:

Pen In Feet	Pile # R1 Butt: 9.5 Tip: 7 Lngth: 40	Pile # R2 Butt: 10 Tip: 7.25 Lngth: 40	Pile # R3 Butt: 10.25 Tip: 7 Lngth: 40	Pile # R4 Butt: 9.5 Tip: 7.25 Lngth: 40	Pile # Butt: Tip: Lngth:	Pile # Butt: Tip: Lngth:	Pile # Butt: Tip: Lngth:
0-5	30	17	12	12			
6-10	29	33	10	32			
11-15	33	43	21	30			
16	7	13	7	9			
17	7	12	7	9			
18	7	11	7	9			
19	9	11	8	9			
20	8	9	7	9			
21	9	13	8	8			
22	9	13	8	10			
23	10	13	8	10			
24	10	14	8	11			
25	10	13	7	9			
26	10	14	9	11			
27	10	16	10	12			
28	12	16	10	14			
29	12	18	10	13			
30	12	15	10	13			
31	12	17	10	14			
32	14	18	11	14			
33	14		11	13			
34	15		14	14			
35	16		15	15			
36							
37							
38							
39							
40							
41							